Activity Under LG&E's Performance-Based Ratemaking ("PBR") Mechanism for the PBR Period for the 12 Months Ended October 31, 2016

Attached is a summary of LG&E's activity and the supporting documentation for the PBR mechanism covering the entirety of PBR Year 19 (November 1, 2015, through October 31, 2016) 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, 2017.

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.

<u>Calculated Results</u>: During the 12 months ended October 31, 2016, LG&E has achieved the following results:

	PBR-GAIF	PBR-TIF	PBR-OSSIF	Total
Nov. 2015	\$151,214	\$201,466	\$0	\$352,680
Dec.	(\$99,348)	\$196,178	\$0	\$96,830
Jan. 2016	\$204,598	\$200,412	\$0	\$405,010
Qtr.				
Subtotal	\$256,464	\$598,056	\$0	\$854,520
Feb.	(\$33,352)	\$196,706	\$0	\$163,354
Mar.	\$45,628	\$202,806	\$0	\$248,434
Apr.	\$4,141	\$205,692	\$0	\$209,833
Qtr.				
Subtotal	\$16,417	\$605,204	\$0	\$621,621

	PBR-GAIF	PBR-TIF	PBR-OSSIF	Total
May 2016	(\$6,963)	\$218,627	\$0	\$211,664
Jun.	\$623,174	\$231,565	\$0	\$854,739
Jul.	(\$23,023)	\$233,637	\$0	\$210,614
Qtr.				
Subtotal	\$593,188	\$683,829	\$0	\$1,277,017
Aug.	\$170,441	\$233,967	\$0	\$404,408
Sep.	\$147,791	\$231,564	\$18,300	\$397,655
Oct.	\$63,173	\$233,863	\$0	\$297,036
Qtr.				
Subtotal	\$381,405	\$699,394	\$18,300	\$1,099,099
Total	\$1,247,474	\$2,586,483	\$18,300	\$3,852,257

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.

Beginning October 12, 2015, the posting published in *Natural Gas Week* as used in the determination of the Supply Area Index ("SAI") for Tennessee Gas Pipeline Company, Zone 0 has been renamed from "Texas: Gulf Coast, Onshore, Delivered to Pipeline" to "Texas: Central, Onshore, Delivered to Pipeline."

Additionally, and beginning December 1, 2015, both *Platts Gas Daily* and *Platts Inside FERC's—Gas Market Report* undertook to reorganize its North American gas regions and the indices that fall into the revised gas regions. This revision has resulted in renaming certain of these postings, but does not change the transactions included in the development of the price postings.

Specifically, and with respect to *Platts Gas Daily*,

• For use in the determination of the SAI for Texas Gas Zone SL (TGT-SL), "Louisiana – Onshore South, Texas Gas, Zone SL" will now be "Louisiana/Southeast, Tx. Gas, zone SL"

- For use in the determination of the SAI and the DAI for Texas Gas Zone 1 (TGT-1), "East Texas North Louisiana Area, Texas Gas, zone 1" will now be "Louisiana/ Southeast, Tx. Gas, zone 1"
- For use in the determination of the SAI for Tennessee Zone 0 (TGPL-0), "South Corpus Christi, Tennessee, zone 0" will now be "East Texas, Tennessee, zone 0"
- For use in the determination of the SAI for Tennessee Zone 1 (TGPL-1), "Louisiana Onshore South, Tennessee, 500 Leg" will now be "Louisiana/Southeast, Tennessee, 500 Leg"

Specifically, and with respect to Platts Inside FERC's—Gas Market Report,

- For use in the determination of the SAI for Texas Gas Zone SL (TGT-SL), "Texas Gas, Zone SL" will now be "Louisiana/Southeast, Texas Gas, zone SL"
- For use in the determination of the SAI for Texas Gas Zone 1 (TGT-1), "Texas Gas, Zone 1" will now be "Louisiana/Southeast, Texas Gas, zone 1"
- For use in the determination of the SAI for Texas Gas Zone 4 (TGT-4), "Northeast, Lebanon Hub" will now be "Appalachia, Lebanon Hub"
- For use in the determination of the SAI for Tennessee Zone 0 (TGPL-0), "Tennessee, Texas, zone 0" will now be "East Texas, Tennessee, zone 0"
- For use in the determination of the SAI for Tennessee Zone 1 (TGPL-1), "Tennessee, Louisiana, 500 leg" will now be "Louisiana/Southeast, Tennessee, Louisiana, 500 Leg"

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.

<u>Composition of Savings</u>: Total savings under the PBR-GAIF component of the mechanism is \$1,247,474.

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 ("Tennessee"), as applicable.

<u>Purchasing Practices and Strategy:</u> 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.

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

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

Composition of Savings by Pipeline: Total savings under the PBR-TIF component of the PBR is \$2,586,483. The portion of savings attributable to Texas Gas under PBR-TIF is \$673,299. 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 \$177,325, and the portion of savings attributable to any demand discounts is \$2,409,158.

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: Total savings under the OSSIF component of the PBR is \$18,300. 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. Any off-system sales are made to entities which are not affiliated with LG&E.

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 19 were \$3,852,257, and TAGSC was \$96,758,276, which is the sum of \$72,317,573 in AGC and \$24,440,703 in TAAGTC. Therefore, savings as a percentage of TAGSC were 3.98% (\$3,852,257 / \$96,758,276). Hence, all of the savings up to \$2,902,748 (3.0% x \$96,758,276) 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 \$949,509 (\$3,852,257 - \$2,902,748), is the subject of the 50% sharing tier.

Therefore, the initial tier of the sliding scale is allocated on a 25/75 basis with \$725,687 (25% x \$2,902,748) being allocated to the Company and \$2,177,061 (75% x \$2,902,748) being allocated to customers. The second tier is subject to sharing on a 50/50 basis with

\$474,754 (50% x \$949,509) being allocated to the Company and \$474,755 (50% x \$949,509) being allocated to customers. Therefore, the total portion of the savings being retained by customers is \$2,651,816 (\$2,177,061 + \$474,755); and the total portion of the savings being allocated to the Company and collected from customers is \$1,200,441 (\$725,687 + \$474,754). Therefore, the CSPBR to be collected for the Company from customers by means of the PBRRC (as a part of the GSCC) is \$1,200,441.

The total to be collected for the Company from customers through the GSCC is 1,200,441. 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, \$750,756 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 \$449,685 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.

<u>Labor and Operating and Maintenance ("O&M") Costs</u>: 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.

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

LOUISVILLE GAS AND ELECTRIC COMPANY GAIF - CALCULATION OF BGC

Column 2 3 5 7 9 10 11 12 13 1 ALLOCATION OF APV ACCORDING TO SZFQE% APV APV APV APV - PEFDCQ= TGT ZONE SI TGT ZONE 4 TGPL ZONE 0 TGPL ZONE 1 APV TGT ZONE 1 TRANSPORTED TRANSPORTED APV TRANSPORTED TOTAL APV FOR TOTAL APV FOR 0.00% TRANSPORTED 48 43% 41 98% 9.59% 0.00% TRANSPORTED UNDER OTHER SYSTEM SUPPLY TGT OR TGPL SYSTEM SUPPLY 15.43% 0.09% 22 77% LINDER LINDER LINDER 61 71% 0.00% TGT RATE STF UNDER TGPL FT-A (1+2+3+4+5) TGT RATE FT CAPACITY PEFDCQ (C. 8 X SZFQE%) C. 8 X SZFQE% [C. 8 X SZFQE%] (C. 8 X SZFQE%) (C. 8 X SZFQE%) TGT RATE NNS [6-7] 2 621 570 2,621,570 1 260 826 251 400 Nov 15 1,707,230 305 460 808 880 0 0 1.100.535 Dec 15 762,658 95,642 311.184 ۵ 1,169,484 1,169,484 n 566 381 490.949 112,154 Jan 16 928,563 235,642 652,752 625,574 410,000 2,852,531 2,852,531 0 1,381,481 1,197,492 273,558 0 1,185,952 185,278 405,920 490,000 2,267,150 2,267,150 0 1,097,981 951,749 217,420 Feb 16 Mar 16 1,040,190 314,807 223,256 1,578,253 1,578,253 0 764,348 062,551 151,354 Apr 16 1,021,516 0 1,021,516 1,021,516 919 232,599 630,378 157,620 1,632,500 1,632,500 1,469 371,720 1,007,416 251,895 May 16 1,255,860 310,640 68,000 609,480 299,976 2,445,946 2,445,946 2,201 556,942 1,509,393 377.410 677 190 309,460 549,840 Jun 18 561,339 629,796 620,000 3,546,624 3,546,624 3,192 807,566 2,188,622 547,244 Jul 16 774.033 961.456 4.073,345 4.073.345 927,501 2,513,661 628,517 1.319.739 935.642 568.168 629,796 620,000 3,666 Aug 16 1,217,190 905,460 549,840 609,480 600,000 3,881,970 o 3,881,970 3,494 883,924 2,395,564 598,986 0 Sep 16 629,796 620,000 3,731,441 ō 3,731,441 3,358 649,649 2,302,672 575,762 0 Oct 16 981,350 934,368 565 927 12,871,471 5,493,855 3.513.866 5,283,162 3.659.976 30.822.330 a 30.822,330 18,299 9,709,718 16,950,982 4.143,331 0 Total 15 16 17 18 19 20 21 22 23 24 25 Column 14 APV x SAI TOTAL APV x SAI APV x SAI APV Y SAI APV x SAL SAL SAL CAI TGPI -20 SAI TGPI-71 BMGCC SAI TGT-SL TGT-Z1 TGT-Z4 TGPL-Z1 (15+17+19+21+23+24) TGT-SL (9X14) TGT-Z1 (10X16) TGT-Z4 (11X18) TGPL-Z0 (12X20) [13X22] DAI \$1,9943 \$2,532,015 \$2.0475 \$2,253,345 \$1.9819 \$498,267 \$2,0062 \$0 \$0 \$5 283 627 Nov 15 \$2,0036 \$1,073,122 \$1,9745 \$969,379 \$1.8907 \$212,050 \$1.9081 \$0 \$0 \$2,254,551 Dec 15 \$1.9080 \$0 \$1.8947 \$2.3648 \$2,831,829 \$2.2446 \$614,028 \$2,2769 \$0 \$0 \$6,579,056 \$0 \$2,2680 \$3,133,199 Jan 16 \$2 2750 \$0 \$2,185,421 \$2.0162 \$1,918,916 \$1.9755 \$429,513 \$2.0058 \$0 \$0 \$4,533,850 \$1,9904 Feb 16 \$1,9995 \$1.6343 \$1,082,807 \$1,6408 \$248,342 \$1,6580 \$0 \$0 \$2,578,336 Mar 16 \$1,8442 \$0 \$1 6317 \$1 247 187 \$0 \$0 \$423 074 \$1.8008 \$1 140 858 \$1,7992 \$283,590 \$1,8296 \$1,849,203 Apr 16 \$1 8293 \$1,681 \$1,8189 \$1,871,678 \$1.8338 \$461.875 \$1.8605 \$0 \$0 \$3.023.132 \$686.864 \$1.8579 May 16 \$1.8481 \$2,715 \$1.8478 \$2,2581 \$0 \$0 \$5,435,661 Jun 16 \$2,2377 \$4.925 \$2,2326 \$1 243 429 \$2,2197 \$3,350,400 \$2 2175 \$836,907 \$0 \$9,698,874 \$5,990,258 \$2.7115 \$1,483,852 \$2,7760 \$0 Jul 16 \$2,7577 \$8,803 \$2.7440 \$2,215,961 \$2,7370 \$2,6793 \$0 \$10,765,970 \$2.6625 \$9,761 \$2,6501 \$2,457,970 \$2 8447 \$6,647,879 \$2,6258 \$1,650,360 \$0 Aug 16 \$10,979,661 Sep 16 \$2.8469 \$9,947 \$2.8276 \$2,499,384 \$2.8290 \$6,777,051 \$2,8269 \$1,693,279 \$2.8674 \$0 \$0 Oct 16 \$2.8235 \$9,481 \$2.8263 \$2,401,363 \$2.8270 \$8,509,654 \$2.8877 \$1,682.628 \$2,8757 \$0 \$0 \$10,583,126 \$0 \$0 \$73,565,047 Total \$47,313 \$22,098,989 \$41,344,054 \$10,074,691

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 APV	8 COST OF GAS	9	10
	APV	COST OF GAS	APV	COST OF GAS	APV	COST OF GAS	TRANSPORTED	TRANSPORTED	APV	COST OF GAS
	TRANSPORTED	TRANSPORTED	TRANSPORTED	TRANSPORTED	TRANSPORTED	TRANSPORTED	UNDER LG&E'S	UNDER LG&E'S	TRANSPORTED	TRANSPORTED
	UNDER LG&E'S	TGPL RATE	TGPL RATE	UNDER OTHER	UNDER OTHER					
	TGT RATE NNS	RATE NNS	TGT RATE FT	TGT RATE FT	TGT RATE STF	TGT RATE STF	FT-A	FT-A	CAPACITY	CAPACITY
-										
Nov 15	1,707,230	\$3,357,221	305,460	\$593,965	0	\$0	608,880	\$1,181,227	0	\$0
Dec 15	762,658	\$1,590,006	95,642	\$180,433	0	\$0	311,184	\$583,460	0	\$0
Jan 16	928,563	\$2,114,799	235,642	\$536,555	652,752	\$1,457,084	625, 5 74	\$1,395,020	410,000	\$871,000
Feb 16	1,185,952	\$2,466,647	185,278	\$375,266	0	\$0	405,920	\$818,639	490,000	\$906,650
Mar 16	1,040,190	\$1,685,829	314,807	\$502,354	0	\$0	223,256	\$344,525	0	\$0
Apr 16	1,021,516	\$1,845,062	0	\$0	0	\$0	0	\$0	0	\$0
May 16	1,255,860	\$2,332,299	310,640	\$577,411	66,000	\$120,385	0	\$0	0	\$0
Jun 16	677,190	\$1,266,345	309,460	\$580,050	549,840	\$1,028,201	609,480	\$1,298,192	299,976	\$639,699
Jul 16	774,033	\$2,152,333	961,456	\$2,640,185	561,339	\$1,533,423	629,796	\$1,710,506	620,000	\$1,685,450
Aug 16	1,319,739	\$3,437,227	935,642	\$2,447,456	568,168	\$1,465,874	629,796	\$1,634,422	620,000	\$1,610,550
Sep 16	1,217,190	\$3,391,744	905,460	\$2,534,020	549,840	\$1,517,558	609,480	\$1,706,798	600,000	\$1,681,750
Oct 16	981,350	\$2,709,061	934,368	\$2,641,067	565,927	\$1,584,989	629,796	\$1,805,686	620,000	\$1,779,150
	12,871,471	\$28,348,573	5,493,855	\$13,608,762	3,513,866	\$8,707,514	5,283,162	\$12,478,475	3,659,976	\$9,174,249

Column 11

TOTAL
GAS COMMODITY
COSTS
(2+4+6+8+10)

(2+4+0+0+10)
\$5,132,413
\$2,353,899
\$6,374,458
\$4,567,202
\$2,532,708
\$1,845,062
\$3,030,095
\$4,812,487
\$9,721,897
\$10,595,529
\$10,831,870
\$10,519,953
\$72,317,573

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	AGC FROM	SAVINGS/ (EXPENSES)			
	COL. 25	COL. 11	(1 - 2)			
Nov 15	\$5,283,627	\$5,132,413	\$151,214			
Dec 15	\$2,254,551	\$2,353,899	(\$99,348)			
Jan 16	\$6,579,056	\$6,374,458	\$204,598			
Feb 16	\$4,533,850	\$4,567,202	(\$33,352)			
Mar 16	\$2,578,336	\$2,532,708	\$45,628			
Apr 16	\$1,849,203	\$1,845,062	\$4,141			
May 16	\$3,023,132	\$3,030,095	(\$6,963)			
Jun 16	\$5,435,661	\$4,812,487	\$623,174			
Jul 16	\$9,698,874	\$9,721,897	(\$23,023)			
Aug 16	\$10,765,970	\$10,595,529	\$170,441			
Sep 16	\$10,979,661	\$10,831,870	\$147,791			
Oct 16	\$10,583,126	\$10,519,953	\$63,173			
Total	\$73,565,047	\$72,317,573	\$1,247,474			

PBR-GAIF INDICES

PBR-GAIF INDICES TEXAS GAS – ZONE SL

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

		PLATTS	PLATTS	
	NATURAL	GAS DAILY AVERAGE	INSIDE FERC's	
	GAS WEEK	LOUISIANA/	GAS MARKET REPORT	
	LOUISIANA, GULF	SOUTHEAST,	LOUISIANA/SOUTHEAST	
	COAST, ONSHORE	TX. GAS, ZONE SL	TEXAS GAS, ZONE SL	AVERAGE
N 45	# 0.0000	#0.0007	£4.0700	# 0.0000
Nov. 15	\$2.0200	\$2.0207	\$1.9700	\$2.0036
Dec. 15	\$1.7600	\$1.8140	\$2.1500	\$1.9080
Jan. 16	\$2.2575	\$2.2174	\$2.3500	\$2.2750
Feb. 16	\$1.9400	\$1.9085	\$2.1500	\$1.9995
Mar. 16	\$1.6525	\$1.6400	\$1.6400	\$1.6442
Apr. 16	\$1.8225	\$1.8254	\$1.8400	\$1.8293
May 16	\$1.8260	\$1.8083	\$1.9100	\$1.8481
Jun. 16	\$2.4175	\$2.4057	\$1.8900	\$2.2377
Jul. 16	\$2.7325	\$2.7005	\$2.8400	\$2.7577
Aug. 16	\$2.7080	\$2.6794	\$2.6000	\$2.6625
Sep. 16	\$2.8925	\$2.8682	\$2.7800	\$2.8469
Oct. 16	\$2.8460	\$2.7545	\$2.8700	\$2.8235

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

	NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE	MONTHLY AVERAGE		NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE	MONTHLY AVERAGE
4.4/20/2047	40.000			•	
11/02/2015	\$2.0000		05/02/2016	\$1.8600	
11/09/2015	\$2.0000		05/09/2016	\$1.7900	
11/16/2015	\$1.9900		05/16/2016	\$1.9000	
11/23/2015	\$2.1200	# 0.0000	05/23/2016	\$1.7600	
11/30/2015	\$1.9900	\$2.0200	05/30/2016	\$1.8200	\$1.83
12/07/2015	\$2.0800		06/06/2016	\$2.1400	
12/14/2015	\$1.7900		06/13/2016	\$2.3400	
12/21/2015	\$1.6700		06/20/2016	\$2.5500	
12/28/2015	\$1.5000	\$1.7600	06/27/2016	\$2.6400	\$2.4175
01/04/2016	\$2.2700		07/04/2016	\$2.7000	
01/04/2016				\$2.7900	
01/11/2016	\$2.3900 \$2.2100		07/11/2016	\$2.7500	
	\$2.2100 \$2.1600	¢0 0575	07/18/2016	\$2.6600	CO 700 E
01/25/2016	\$2.1000	\$2.2575	07/25/2016	\$2.7300	\$2.7325
02/01/2016	\$2.1300		08/01/2016	\$2.7200	
02/08/2016	\$2.0500		08/08/2016	\$2.7900	
02/15/2016	\$2.0300		08/15/2016	\$2.6400	
02/22/2016	\$1.8300		08/22/2016	\$2.6200	
02/29/2016	\$1.6600	\$1.9400	08/29/2016	\$2.7700	\$2.7080
03/07/2016	\$1.4900		09/05/2016	\$2.8200	
03/14/2016	\$1.6300		09/12/2016	\$2.8000	
03/21/2016	\$1.7800		09/19/2016	\$2.9300	
03/28/2016	\$1.7100	\$1.6525	09/26/2016	\$3.0200	\$2.8925
04/04/0040	£4.0400		40/00/0040	00.0400	
04/04/2016	\$1.8100		10/03/2016	\$2.8400	
04/11/2016	\$1.8900 \$1.7200		10/10/2016	\$2.8800	
04/18/2016	\$1.7200 \$1.8700	#4.000 F	10/17/2016	\$3.0700	
04/25/2016	\$1.8700	\$1.8225	10/24/2016	\$2.8300	00.0400
			10/31/2016	\$2.6100	\$2.8460

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

NC	VEMBER 2015	DE	CEMBER 2015	J.	ANUARY 2016		FE	BRUARY 2016		MARCH 2016	APRIL 2016
DAY	MIDPOINT	N	MIDPOINT]		MIDPOINT	DAY	N	MIDPOINT		MIDPOINT	MIDPOINT
1 \$	1.9100	\$	2.0600	\$	2.2600	1			\$	1.5300	\$ 1.8600
2 \$	1.9100	\$	2.1500	\$	2.2600	2			•		\$ 1.8000
3 \$	1.8500	\$	2.1600	\$	2.2600	3					\$ 1.8000
4 \$	-	\$	2.0700	\$	2.2600	4	\$	2.0100			\$ 1.8000
5 \$	-	\$	2.0200	\$	2.3600	5					\$ 1.8600
6 \$	-	\$	2.0200	\$	2.2750	6					\$ 1.8500
7 \$	-	\$	2.0200	\$	2.2800	7					\$ 1.8100
8 \$	-	\$	1.9800	\$	2.2700	8					\$ 1.8600
9 \$	-	\$	1.9300	\$	2.4200	9			\$	1.4700	\$ 1.9000
10 \$	-	\$	1.9350	\$	2.4200	10	\$	2.1300			\$ 1.9000
11 \$	2.0600	\$	1.8600	\$	2.4200	11					\$ 1.9000
12 \$	2.0200	\$	1.7250	\$	2.4200	12					\$ 1.8000
13 \$	•	\$	1.7250	\$	2.2900	13	\$	1.9850			\$ 1.8600
14 \$	-	\$	1.7250	\$	2.2200	14	\$	1.9850			\$ 1.8600
15 \$	-	\$	-	\$	2.1600	15	\$	1.9850			
16 \$	-	\$	1.6000	\$	2.1600	16	\$	1.9850			\$ 1.6300
17 \$	-	\$	1.6600	\$	2.1600	17			\$	1.7000	\$ 1.6300
18 \$	-	\$	1.7000	\$	2.1600	18	\$	1.8300	\$	1.7600	\$ 1.6300
19 \$	-	\$	1.6400	\$	2.1600	19					
20 \$	-	\$	1.6400	\$	2.1300	20					\$ 1.8500
21 \$	2.1700	\$	1.6400	\$	2.0950	21					\$ 1.8900
22 \$	2.1700	\$	1.7000			22					
23 \$	2.1700	\$	1.6500	\$	2.1500	23					\$ 1.8500
24 \$	2.1200	\$	1.5100	\$	2.1500	24	\$	1.7500			\$ 1.8500
25 \$	2.0800	\$	1.4200	\$	2.1500	25	\$	1.7200	\$	1.6650	\$ 1.8500
26 \$	1.9700	\$	1.4200	\$	2.0750	26	\$	1.7050	\$	1.6650	
27 \$	1.9700	\$	1.4200			27			\$	1.6650	\$ 1.8400
28 \$	1.9700	\$	1.4200	\$	2.1900	28			\$	1.6650	\$ 1.8600
29 \$	1.9700	\$	2.0600	\$	2.0500	29					\$ 1.8600
30 \$	1.9700	\$	2.3500	\$	2.0500	30					\$ 1.8600
31		\$	2.2100	\$	2.0500	31					
TOTAL \$	30.3100	\$	54.4200	\$	64.3050	TOTAL	\$	19.0850	\$	13.1200	\$ 47.4600
POSTINGS	15		30		29	POSTINGS		10		8	26
AVERAGE \$	2.0207	\$	1.8140	\$	2.2174	AVERAGE	\$	1.9085	\$	1.6400	\$ 1.8254

	MAY 2016		JUNE 2016	JULY 2016		Α	UGUST 2016	S	EPTEMBER 2016		C	CTOBER 2016
DAY	/IDPOINT		MIDPOINT	MIDPOINT]	DAY	M	IIDPOINT		MIDPOINT			MIDPOINT
1 \$	1.8200	\$	2.0400	\$ 2.7750	1	\$	2.8200	\$	2.7650		\$	2.7050
2 \$	1.8200	\$	2.2100	\$ 2.7800	2	\$	2.7900	\$			\$	2.7050
3 \$	1.8200	\$	2.2200	\$ 2.7800	3	\$	2.6800	\$	2.7400	:	\$	2.7050
4 \$	1.8400	\$	2.1600	\$ 2.7800	4	\$	2.7700	\$	2.7400	:	\$	2.6800
5 \$	1.9300	\$	2.1600	\$ 2.7800	5	\$	2.7700	\$	2.7400	:	\$	2.7300
6 \$	1.9200	\$	2.1600	\$ 2.7000	6	\$	2.7400	\$	2.7400	:	\$	2.7950
7 \$	1.7550	\$	2.2200	\$ 2.6400	7	\$	2.7400	\$	2.7550	;	\$	-
8 \$	1.7550	\$	2.2100	\$ 2.7500	8	\$	2.7400	\$	2.7400	;	\$	2.8200
9 \$	1.7550	\$	2.2500	\$ 2.6700	9	\$	2.7200	\$	2.7550		\$	2.8200
10 \$	1.8900	\$	2.2450	\$ 2.6700	10	\$	2.6500	\$	2.8300	;	\$	2.8200
11 \$	1.9400	\$	2.3600	\$ 2.6700	11	\$	2.6200	\$	2.8300		\$	•
12		\$	2.3600	\$ 2.7400	12		2.5400	\$	2.8300	;	\$	-
13		\$	2.3600	\$ 2.6500	13		2.5600	\$	2.8900		\$	-
14		\$	2.4500	\$ 2.7000	14		2.5600	\$	2.9700		\$	-
15		\$	2.4600	\$ 2.6800	15	\$	2.5600	\$	2.9250		\$	-
16		\$	2.5400	\$ 2.5900	16	\$	2.6100	\$	2.8300		\$	_
17 \$	1.8300	·		\$ 2.5900	17	\$	2.5900	\$	2.8450		\$	_
18 \$	1.8600	\$	2.4700	\$ 2.5900	18	\$	2.5950	\$	2.8450		\$	_
19 \$	1.8000	\$	2.4700	\$ 2.7350	19		2.5900	\$	2.8450		\$	3.0800
20 \$	1.7500	\$	2.4700	\$ 2.7500	20	\$	2.5500	\$	2.9300		\$	3.0600
21 \$	1.6900	\$	2.6100	\$ 2.6700	21		2.5500	\$	3.0400		\$	2.9700
22 \$	1.6900	\$	2.6800	\$ 2.6650	22	\$	2.5500	\$	3.0900		\$	2.7950
23 \$	1.6900	•		\$ 2.7400	23		2.6300	\$	3.0850		\$	2.7950
24 \$	1.8700	\$	2.5800	\$ 2.7400	24		2.6200	\$	2.9600		\$	2.7950
25 \$	1.8000	\$	2.5900	\$ 2.7400	25		2.7100	\$	2.9600		\$	2.6650
26 \$	1.7300	\$	2.5900	\$ 2.7400	26		2.7400	\$	2.9600		\$	2.6800
27 \$	1.7000	\$	2.5900	\$ 2.6750	27	\$	2.7800	\$	2.9600		\$	2.6600
28 \$	1.8400	\$	2.6300	\$ 2.6850	28	\$	2.7800	\$	2.9350		\$	2.6100
29 \$	1.8400	•		\$ 2.6800	29	\$	2.7800	\$	2.8700		\$	2.5700
30 \$	1.8400	\$	2.8700	\$ 2.6800	30	\$	2.8550	\$	2.8800		\$	2.5700
31 \$	1.8400	,		\$ 2.6800	31		2.8700	•			\$	2.5700
TOTAL \$	47.0150	\$	64.9550	\$ 83.7150	TOTAL	\$	83.0600	\$	86.0450	;	\$	60.6000
POSTINGS	26		27	31	POSTINGS		31		30			22
AVERAGE \$	1.8083	\$	2.4057	\$ 2.7005	AVERAGE	\$	2.6794	\$	2.8682	;	\$	2.7545

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. 15	\$2.0200	\$2.0128	\$1.9500	\$1.9943
Dec. 15	\$1.7475	\$1.8065	\$2.1300	\$1.8947
Jan. 16	\$2.2625	\$2.2216	\$2.3200	\$2.2680
Feb. 16	\$1.9360	\$1.8952	\$2.1400	\$1.9904
Mar. 16	\$1.6325	\$1.6326	\$1.6300	\$1.6317
Apr. 16	\$1.8050	\$1.8218	\$1.8300	\$1.8189
May 16	\$1.8180	\$1.8255	\$1.9000	\$1.8478
Jun. 16	\$2.3900	\$2.4378	\$1.8700	\$2.2326
Jul. 16	\$2.7025	\$2.6894	\$2.8400	\$2.7440
Aug. 16	\$2.6860	\$2.6842	\$2.5800	\$2.6501
Sep. 16	\$2.8550	\$2.8677	\$2.7600	\$2.8276
Oct. 16	\$2.8080	\$2.8108	\$2.8600	\$2.8263

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

	NATURAL			NATURAL	
	GAS WEEK			GAS WEEK	
	LOUISIANA	MONTHLY	l	LOUISIANA	MONTHLY
	NORTH	AVERAGE		NORTH	AVERAGE
11/02/2015	\$1.9700		05/02/2016	\$1.8500	
11/09/2015	\$2.0500		05/09/2016	\$1.7900	
11/16/2015	\$1.9900		05/16/2016	\$1.8800	
11/23/2015	\$2.1200		05/23/2016	\$1.7400	
11/30/2015	\$1.9700	\$2.0200	05/30/2016	\$1.8300	\$1.82
12/07/2015	\$2.0700		06/06/2016	\$2.1000	
12/14/2015	\$1.8200		06/13/2016	\$2.3400	
12/21/2015	\$1.6500		06/20/2016	\$2.5100	
12/28/2015	\$1.4500	\$1.7475	06/27/2016	\$2.6100	\$2.3900
01/04/2016	\$2.2900		07/04/2016	\$2.7400	
01/11/2016	\$2.3900		07/11/2016	\$2.6900	
01/18/2016	\$2.2200		07/18/2016	\$2.6300	
01/25/2016	\$2.1500	\$2.2625	07/25/2016	\$2.7500 ⁻	\$2.7025
02/01/2016	\$2.1200		08/01/2016	\$2.6900	
02/08/2016	\$2.0200		08/08/2016	\$2.7700	
02/15/2016	\$2.0200		08/15/2016	\$2.6200	
02/22/2016	\$1.8800		08/22/2016	\$2.5800	
02/29/2016	\$1.6400	\$1.9360	08/29/2016	\$2.7700	\$2.6860
03/07/2016	\$1.4600		09/05/2016	\$2.8000	
03/14/2016	\$1.6100		09/12/2016	\$2.7600	
03/21/2016	\$1.7900		09/19/2016	\$2.8600	
03/28/2016	\$1.6700	\$1.6325	09/26/2016	\$3.0000	\$2.8550
04/04/2016	\$1.8000		10/03/2016	\$2.8000	
04/11/2016	\$1.8700		10/10/2016	\$2.8200	
04/18/2016	\$1.7100		10/17/2016	\$2.9800	
04/25/2016	\$1.8400	\$1.8050	10/24/2016	\$2.8700	
			10/31/2016	\$2.5700	\$2.8080

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

N	IOVEMBER 2015	DE	CEMBER 2015	J	ANUARY 2016		FE	BRUARY 2016	I	MARCH 2016		APRIL 2016
DAY	MIDPOINT		MIDPOINT		MIDPOINT	DAY[MIDPOINT		MIDPOINT		MIDPOINT
1 \$	1.9200	\$	2.0600	\$	2.2950	1		2.2100	\$	1.5050	\$	1.8550
2 \$	1.9200	\$	2.1250	\$	2.2950	2		2.0750	\$	1.5050	\$	1.8050
3 \$	1.8600	\$	2.1550	\$	2.2950	3	-	1.9550	\$	1.5550	\$	1.8050
4 \$	1.8550	\$	2.0650	\$	2.2950	4	\$	1.9950	\$	1.5150	\$	1.8050
5 \$	1.9550	\$	2.0400	\$	2.3600	5	\$	1.9800	\$	1.4350	\$	1.8600
6 \$	2.0350	\$	2.0400	\$	2.2700	6	\$	2.0250	\$	1.4350	\$	1.8400
7 \$	2.1050	\$	2.0400	\$	2.2950		\$	2.0250	\$	1.4350	\$	1.8200
8 \$	2.1050	\$	1.9800	\$	2.2900	8	\$	2.0250	\$	1.4450	\$	1.8650
9 \$	2.1050	\$	1.9250	\$	2.4200	9	\$	2.1700	\$	1.4600	\$	1.8850
10 \$	2.0300	\$	1.9300	\$	2.4200	10	\$	2.1300	\$	1.5150	\$	1.8850
11 \$	2.0650	\$	1.8500	\$	2.4200	11	\$	2.0750	\$	1.6150	\$	1.8850
12 \$	2.0500	\$	1.6950	\$	2.4500	12	\$	2.0550	\$	1.6500	\$	1.8050
13 \$	1.9350	\$	1.6950	\$	2.3000	13	\$	1.9850	\$	1.6500	\$	1.8650
14 \$	1.9600	\$	1.6950	\$	2.2200	14	\$	1.9850	\$	1.6500	\$	1.8850
15 \$	1.9600	\$	1.6100	\$	2.1600	15	\$	1.9850	\$	1.6200	\$	1.8050
16 \$	1.9600	\$	1.5850	\$	2.1550	16		1.9850	\$	1.7150	\$	1.6150
17 \$	2.0300	\$	1.6650	\$	2.1550	17	\$	1.8300	\$	1.6850	\$	1.6150
18 \$	1.9500	\$	1.7150	\$	2.1550	18	\$	1.8000	\$	1.7650	\$	1.6150
19 \$	2.0500	\$	1.6500	\$	2.1550	19		1.7900	\$	1.8050	\$	1.6650
20 \$	2.1050	\$	1.6500	\$	2.1350	20	\$	1.7300	\$	1.8050	\$	1.8400
21 \$	2.1600	\$	1.6500	\$	2.1250	21		1.7300	\$	1.8050	\$	1.8950
22 \$	2.1600	\$	1.6800	\$	2.1550	22	\$	1.7300	\$	1.7200	\$	1.8750
23 \$	2.1600	\$	1.6550	\$	2.1450	23		1.7450	\$	1.7100	\$	1.8550
24 \$	2.1200	\$	1.4950	\$	2.1450	24	\$	1,7400	\$	1.7500	\$	1.8550
25 \$	2.0800	\$	1.4350	\$	2.1450	25	\$	1.7200	\$	1.6650	\$	1.8550
26 \$	1.9500	\$	1.4350	\$	2.0850	26	\$	1.7000	\$	1.6650	\$	1.8900
27 \$	1.9500	\$	1.4350	\$	2.1900	27	\$	1.5950	\$	1.6650	\$	1.8300
28 \$	1.9500	\$	1.4350	\$	2.1750		\$	1.5950	\$	1.6650	\$	1.8700
29 \$	1.9500	\$	2.0650	\$	2.0550	29	\$	1.5950	\$	1.6850	\$	1.8550
30 \$	1.9500	\$	2.3350	\$	2.0550	30	•		\$	1.7150	\$	1.8550
31		\$	2.2100	\$	2.0550	31			\$	1.8000	*	1.0000
TOTAL \$	60.3850	\$	56.0000	\$	68.8700	TOTAL	\$	54.9600	\$	50.6100	\$	54.6550
POSTINGS	30		31		31	POSTINGS		29		31		30
AVERAGE \$	2.0128	\$	1.8065	\$	2.2216	AVERAGE	\$	1.8952	\$	1.6326	\$	1.8218

	MAY 2016	JUNE 2016	JULY 2016			AUGUST 2016		SEPTEME 2016	BER		0	CTOBER 2016
DAY	MIDPOINT	MIDPOINT	MIDPOINT		DAY	MIDPOINT	[MIDPO	INT	[MIDPOINT
1 \$	1.8250	\$ 2.0400	\$ 2.7750		1	\$ 2.8150		\$ 2.8	150		\$	2.6750
2 \$	1.8250	\$ 2.2150	\$ 2.7400		2	\$ 2.7900		\$ 2.79	950		\$	2.6750
3 \$	1.8250	\$ 2.2150	\$ 2.7400		3	\$ 2.6900		\$ 2.74			\$	2.6750
4 \$	1.8550	\$ 2.1750	\$ 2.7400		4	\$ 2.7800		\$ 2.74			\$	2.7100
5 \$	1.9400	\$ 2.1750	\$ 2.7400		5	\$ 2.7900		\$ 2.74			\$	2,7400
6 \$	1.9200	\$ 2.1750	\$ 2.6800		6	\$ 2.7350		\$ 2.74			\$	2.7950
7 \$	1.7500	\$ 2.2000	\$ 2.6550		7	\$ 2.7350		\$ 2.74			\$	2.8950
8 \$	1.7500	\$ 2.2050	\$ 2.7350		8	\$ 2.7350		\$ 2.74			\$	2.8400
9 \$	1.7500	\$ 2.2600	\$ 2.6650		9	\$ 2.7000		\$ 2.76	300		\$	2.8400
10 \$	1.8900	\$ 2.2450	\$ 2.6650		10	\$ 2.6500		\$ 2.82			\$	2.8400
11 \$	1.9350	\$ 2.3600	\$ 2.6650		11	\$ 2.6100		\$ 2.82	200		\$	3.0400
12 \$	1.9300	\$ 2.3600	\$ 2.7250		12	\$ 2.5550		\$ 2.82			\$	3.0350
13 \$	1.9200	\$ 2.3600	\$ 2.6550		13	2.5850		\$ 2.89			\$	3.0450
14 \$	1.8750	\$ 2.4550	\$ 2.7050		14	\$ 2.5850		\$ 2.96			\$	2.9450
15 \$	1.8750	\$ 2.4900	\$ 2.6700		15	\$ 2.5850		\$ 2.93			\$	2.9700
16 \$	1.8750	\$ 2.5450	\$ 2.5850		16	\$ 2.6150		\$ 2.83			\$	2.9700
17 \$	1.8400	\$ 2.5050	\$ 2.5850		17	\$ 2.5950		\$ 2.84			\$	2.9700
18 \$	1.8900	\$ 2.5050	\$ 2.5850		18	2.6000		\$ 2.84			\$	3.0150
19 \$	1.8100	\$ 2.5050	\$ 2.7300		19	2.5900		\$ 2.84			\$	3.0850
20 \$	1.6950	\$ 2.5050	\$ 2.7450		20	\$ 2.5550		\$ 2.93			\$	3.0450
21 \$	1.7150	\$ 2.6350	\$ 2.6700		21	2.5550		\$ 3.03			\$	2.9600
22 \$	1.7150	\$ 2.6950	\$ 2.6500		22	2.5550		\$ 3.10			\$	2.7450
23 \$	1.7150	\$ 2.7000	\$ 2.7200		23	\$ 2.6300		\$ 3.06			\$	2.7450
24 \$	1.8850	\$ 2.5950	\$ 2.7200		24	2.6200		\$ 2.95			\$	2.7450
25 \$	1.8100	\$ 2.5950	\$ 2.7200		25	\$ 2.7150		\$ 2.95			\$	2.6350
26 \$	1.7100	\$ 2.5950	\$ 2.7300		26	2.7550		\$ 2.95			\$	2.5750
27 \$	1.7050	\$ 2.5950	\$ 2.6600		27	2.7850		\$ 2.96			\$	2.6500
28 \$	1.8400	\$ 2.6400	\$ 2.6900		28	2.7850		\$ 2.93			\$	2.6100
29 \$	1.8400	\$ 2.7600	\$ 2.6750		29	2.7850		\$ 2.87			\$	2.5550
30 \$	1.8400	\$ 2.8300	\$ 2.6750		30	\$ 2.8600		\$ 2.84			\$	2.5550
31 \$	1.8400		\$ 2.6750		31	\$ 2.8700					\$	2.5550
TOTAL \$	56.5900	\$ 73.1350	\$ 83.3700	T	OTAL	\$ 83.2100		\$ 86.03	300		\$	87.1350
POSTINGS	31	30	31	F	OSTINGS	31			30			31
AVERAGE \$	1.8255	\$ 2.4378	\$ 2.6894	A	VERAGE	\$ 2.6842		\$ 2.86	677		\$	2.8108

PBR-GAIF INDICES TEXAS GAS – ZONE 4

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

			PLATT\$	
	NATURAL	PLATTS	INSIDE FERC's	
	GAS WEEK	GAS DAILY AVERAGE	GAS MARKET REPORT	
	APPALACHIA	APPALACHIA	APPALACHIA,	
	LEBANON HUB	LEBANON HUB	LEBANON HUB	AVERAGE
Nov. 15	\$2.0720	\$2.0405	\$2.0300	\$2.0475
Dec. 15	\$1.7900	\$1.8634	\$2.2700	\$1.9745
Jan. 16	\$2.3200	\$2.2645	\$2.5100	\$2.3648
Feb. 16	\$1.9380	\$1.9105	\$2.2000	\$2.0162
Mar. 16	\$1.6250	\$1.6379	\$1.6400	\$1.6343
Apr. 16	\$1.7925	\$1.8168	\$1.8200	\$1.8098
May 16	\$1.8420	\$1.8317	\$1.9000	\$1.8579
Jun. 16	\$2.3625	\$2.4267	\$1.8700	\$2.2197
Jul. 16	\$2.6950	\$2.6660	\$2.8500	\$2.7370
Aug. 16	\$2.6660	\$2.6881	\$2.5800	\$2.6447
Sep. 16	\$2.8575	\$2.8596	\$2.7700	\$2.8290
Oct. 16	\$2.8060	\$2.8050	\$2.8700	\$2.8270

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

	NATURAL GAS WEEK APPALACHIA LEBANON HUB	MONTHLY AVERAGE	NATURAL GAS WEEK APPALACHIA LEBANON HUB	MONTHLY AVERAGE
11/02/2015	\$2.0800		05/02/2016 \$1.8600	
11/09/2015	\$2.0600		05/09/2016 \$1.8400	
11/16/2015	\$2.0000		05/16/2016 \$1.9200	
11/23/2015	\$2.1900		05/23/2016 \$1.7900	
11/30/2015	\$2.0300	\$2.0720	05/30/2016 \$1.8000	\$1.8420
11/30/2013	Ψ2.0300	Ψ2.0120	03/30/2010 \$1.8000	Ψ1.0420
12/07/2015	\$2.1000		06/06/2016 \$2.0500	
12/14/2015	\$1.7900		06/13/2016 \$2.2900	
12/21/2015	\$1.7100		06/20/2016 \$2.4900	
12/28/2015	\$1.5600	\$1.7900	06/27/2016 \$2.6200	\$2.3625
01/04/2016	\$2.3600		07/04/2016 \$2.7300	
01/11/2016	\$2.4700		07/11/2016 \$2.6800	
01/18/2016	\$2.2600		07/18/2016 \$2.6200	
01/25/2016	\$2.1900	\$2.3200	07/25/2016 \$2.7500	\$2.6950
02/01/2016	\$2.0900		08/01/2016 \$2.6800	
02/08/2016	\$2.0300		08/08/2016 \$2.7400	
02/15/2016	\$2.0600		08/15/2016 \$2.6200	
02/22/2016	\$1.8400		08/22/2016 \$2.5600	
02/29/2016	\$1.6700	\$1.9380	08/29/2016 \$2.7300	\$2.6660
03/07/2016	\$1.4700		09/05/2016 \$2.7600	
03/14/2016	\$1.5900		09/12/2016 \$2.7900	
03/21/2016	\$1.7600		09/19/2016 \$2.9100	
03/28/2016	\$1.6800	\$1.6250	09/26/2016 \$2.9700	\$2.8575
04/04/2016	\$1.7900		40/02/2046	
04/04/2016	\$1.7900 \$1.8600		10/03/2016 \$2.7300 10/10/2016 \$2.7900	
04/11/2016	\$1.6800 \$1.6800		10/10/2016 \$2.7900	
04/16/2016	\$1.8400	\$1.7925	10/17/2016 \$2.9500	
04/23/2010	φ1.0400	ψ1.1823	10/31/2016 \$2.9500	\$2.8060
			10/31/2010 \$2.0100	⊅∠. ठ∪ठ∪

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

Ν	NOVEMBER 2015	DECEMBER 2015	JANUARY 2016	FEBRUAF 2016	RY MARCH 2016	APRIL 2016
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY MIDPO	MIDPOINT	MIDPOINT
1 \$	1.9200	\$ 2.1200	\$ 2.3400	1 \$ 2.24		\$ 1.8750
2 \$		\$ 2.1850	\$ 2.3400	2 \$ 2.13		\$ 1.8250
3 \$	1.8600	\$ 2.1750	\$ 2.3400	3 \$ 2.01		\$ 1.8250
4 \$	1.8800	\$ 2.1100	\$ 2.3400	4 \$ 2.03	50 \$ 1.5350	\$ 1.8250
5 \$	2.0450	\$ 2.0650	\$ 2.4200	5 \$ 2.01	• ====	\$ 1.8500
6 \$	2.1200	\$ 2.0650	\$ 2.3050	6 \$ 2.03		\$ 1.8350
7 \$	2.0900	\$ 2.0650	\$ 2.3450	7 \$ 2.03	00 \$ 1.4250	\$ 1.8150
8 \$	2.0900	\$ 2.0050	\$ 2.3450	8 \$ 2.03	00 \$ 1.4550	\$ 1.8700
9 \$	2.0900	\$ 1.9300	\$ 2.5150	9 \$ 2.20	00 \$ 1.4650	\$ 1.8600
10 \$	2.0500	\$ 1.9600	\$ 2.5150	10 \$ 2.15	00 \$ 1.5000	\$ 1.8600
11 \$	2.0650	\$ 1.8800	\$ 2.5150	11 \$ 2.09	00 \$ 1.6150	\$ 1.8600
12 \$	2.0750	\$ 1.7100	\$ 2.5100	12 \$ 2.09	00 \$ 1.6450	\$ 1.8200
13 \$	1.9650	\$ 1.7100	\$ 2.3450	13 \$ 2.01	00 \$ 1.6450	\$ 1.8650
14 \$	1.9650	\$ 1.7100	\$ 2.2650	14 \$ 2.01	00 \$ 1.6450	\$ 1.8650
15 \$		\$ 1.6850	\$ 2.2100	15 \$ 2.01		\$ 1.7750
16 \$	1.9650	\$ 1.6550	\$ 2.2400	16 \$ 2.01		\$ 1.6050
17 \$	2.0700	\$ 1.7550	\$ 2.2400	17 \$ 1.83	00 \$ 1.6750	\$ 1.6050
18 \$	1.9850	\$ 1.7750	\$ 2.2400	18 \$ 1.80		\$ 1.6050
19 \$	2.0900	\$ 1.7150	\$ 2.2400	19 \$ 1.78	00 \$ 1.8150	\$ 1.6500
20 \$	2.1600	\$ 1.7150	\$ 2.2050	20 \$ 1.74	00 \$ 1.8150	\$ 1.8550
21 \$	2.2050	\$ 1.7150	\$ 2.1450	21 \$ 1.74	00 \$ 1.8150	\$ 1.9200
22 \$	2.2050	\$ 1.7600	\$ 2.1750	22 \$ 1.74	00 \$ 1.7300	\$ 1.8750
23 \$	2.2050	\$ 1.7650	\$ 2.1450	23 \$ 1.75	50 \$ 1.7200	\$ 1.8350
24 \$	2.1700	\$ 1.6200	\$ 2.1450	24 \$ 1.74		\$ 1.8350
25 \$	2.1100	\$ 1.4800	\$ 2.1450	25 \$ 1.72		\$ 1.8350
26 \$	1.9900	\$ 1.4800	\$ 2.1300	26 \$ 1.70	00 \$ 1.6750	\$ 1.8750
27 \$		\$ 1.4800	\$ 2.1950	27 \$ 1.58	50 \$ 1.6750	\$ 1.8400
28 \$	1.9900	\$ 1.4800	\$ 2.1700	28 \$ 1.58		\$ 1.8450
29 \$	1.9900	\$ 2.2000	\$ 2.0450	29 \$ 1.58		\$ 1.8500
30 \$	1.9900	\$ 2.4800	\$ 2.0450	30	\$ 1.7100	\$ 1.8500
31		\$ 2.3150	\$ 2.0450	31	\$ 1.7950	*
TOTAL \$	61.2150	\$ 57.7650	\$ 70.2000	TOTAL \$ 55.40	50 \$ 50.7750	\$ 54.5050
POSTINGS	30	31	31	POSTINGS	29 31	30
AVERAGE \$	2.0405	\$ 1.8634	\$ 2.2645	AVERAGE \$ 1.91	05 \$ 1.6379	\$ 1.81 6 8

		MA` 201		JUNE 2016	JULY 2016			AUGUST 2016	SE	PTEMBER 2016		OC	CTOBER 2016
	DAY[MIDE	POINT	MIDPOINT	MIDPOINT	, DAY	<u> </u>	MIDPOINT		MIDPOINT	[MIDPOINT
	1	\$ 1.	.8500	\$ 2.0400	\$ 2.7700		۱ \$	2.8200	\$	2.8400		\$	2.6900
	2	\$ 1.	.8500	\$ 2.2050	\$ 2.6950		2 \$	2.7900	\$	2.8100		\$	2.6900
	3	\$ 1.	.8450	\$ 2.1900	\$ 2.6950	;	3 \$	2.6950	\$	2.7200		\$	2.6900
	4	\$ 1.	.9150	\$ 2.1700	\$ 2.6950	4	1 \$	2.7650	\$	2.7200		\$	2.6900
	5	\$ 1.	.9700	\$ 2.1700	\$ 2.6950		5 \$	2.8000	\$	2.7200		\$	2.7200
	6	\$ 1.	.9100	\$ 2.1700	\$ 2.6950	(3 \$	2.7300	\$	2.7200		\$	2.7850
	7	\$ 1	.7750	\$ 2.1950	\$ 2.6250	-	7 \$	2.7300	\$	2.7550		\$	2.8850
	8	\$ 1	.7750	\$ 2.2000	\$ 2.7300	8	3 \$	2.7300	\$	2.7600		\$	2.8200
	9	\$ 1	.7750	\$ 2.2350	\$ 2.6300	9	\$	2.7000	\$	2.7700		\$	2.8200
	10			\$ 2.2200	\$ 2.6300	10		2,6600	\$	2.8200		\$	2.8200
	11	\$ 1.	.9750	\$ 2.3200	\$ 2.6300	11	\$	2.6300	\$	2.8200		\$	3.0150
	12	\$ 1.	.9400	\$ 2.3200	\$ 2.7350	12		2.5550	\$	2.8200		\$	3.0350
	13	\$ 1.	.9800	\$ 2.3200	\$ 2.6500	13	3 \$	2.6200	\$	-		\$	3.0550
	14	\$ 1.	.8650	\$ 2.4400	\$ 2.7150	14	1 \$	2.6200	\$	2.9550		\$	-
	15	\$ 1.	.8650	\$ 2.4400	\$ 2.6800	15		2.6200	\$	2.9100		\$	2.8850
	16	\$ 1.	.8650	\$ 2.5250	\$ 2.5650	16		2.6300	\$	2.8350		\$	2.8850
	17	\$ 1.	.8500	\$ 2.4700	\$ 2.5650	17	7 \$	2.5900	\$	-		\$	2.8850
	18	\$ 1.	.8950	\$ 2.5150	\$ 2.5650	18		2.6100	\$	_		\$	2.9500
	19	\$ 1	.8050	\$ 2.5150		19	9 \$	2.5900	\$	_		\$	3.0750
	20	\$ 1	.7100	\$ 2.5150		20	\$	2.5500	\$	2.9300		\$	3.0950
	21	\$ 1	.7250	\$ 2.6400		2	1 \$	2.5500	\$	3.0550		\$	2.9750
	22	\$ 1	.7250	\$ 2.6700		22	2 \$	2.5500	\$	3.1050		\$	2.7700
	23	\$ 1	.7250	\$ 2.6950		23	3 \$	2.6100	\$	-		\$	2.7700
	24	\$ 1	.8850	\$ 2.5900		24	1 \$	2.6300	\$	2.9450		\$	2.7700
	25		.8150	\$ 2.5850		25		2.7200	\$	2.9450		\$	2.7200
	26		.7250	\$ 2.5850	\$ 2.7300	26	\$	2.7700	\$	2.9450		\$	2.6300
	27		.7550	\$ 2.5850	\$ 2.6450	27	7 \$	2.7550	\$	2.9650		\$	2.6900
	28		.7950	\$ 2.6800	\$ 2.6950	28		2.7550	\$	2.9350		\$	2.6400
	29	\$ 1.	.7950	\$ 2.7700	\$ 2.6500	29	\$	2.7550	\$	2.8600		\$	2.5650
	30	\$ 1.	.7950	\$ 2.8250	\$ 2.6500	30	\$	2.9100	\$	2.8300		\$	2.5650
	31	\$ 1.	.7950		\$ 2.6500	31	\$	2.8900				\$	2.5650
Т	TOTAL	\$ 54	.9500	\$ 72.8000	\$ 63.9850	TOTAL	\$	83.3300	\$	71.4900		\$	84.1500
F	POSTINGS		30	30	24	POSTINGS	i	31		25			30
P	AVERAGE	\$ 1.	.8317	\$ 2.4267	\$ 2.6660	AVERAGE	\$	2.6881	\$	2.8596		\$	2.8050

PBR-GAIF INDICES TENNESSEE – ZONE 0

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

		PLATTS	PLATTS	
	NATURAL	GAS DAILY AVERAGE	INSIDE FERC's	
	GAS WEEK	EAST TEXAS,	GAS MARKET REPORT	
	TEXAS,	TENNESSEE,	EAST TEXAS,	
	CENTRAL, ONSHORE	ZONE 0	TENNESSEE, ZONE 0	AVERAGE
Nov. 15	\$2.0120	\$1.9937	\$1.9400	\$1.9819
Dec. 15	\$1.7850	\$1.7671	\$2.1200	\$1.8907
Jan. 16	\$2.2400	\$2.1939	\$2.3000	\$2.2446
Feb. 16	\$1.9080	\$1.8884	\$2.1300	\$1.9755
Mar. 16	\$1.6575	\$1.6350	\$1.6300	\$1.6408
Apr. 16	\$1.7950	\$1.7827	\$1.8200	\$1.7992
May 16	\$1.8120	\$1.7889	\$1.9000	\$1.8336
Jun. 16	\$2.3875	\$2.4050	\$1.8600	\$2.2175
Jul. 16	\$2.6975	\$2.6269	\$2.8100	\$2.7115
Aug. 16	\$2.6820	\$2.6453	\$2.5500	\$2.6258
Sep. 16	\$2.8750	\$2.8758	\$2.7300	\$2.8269
Oct. 16	\$2.9240	\$2.8692	\$2.8700	\$2.8877

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
11/02/2015	\$1.9700		05/02/2016	\$1.8300	
11/09/2015	\$2.0200		05/02/2016	\$1.8000	
11/16/2015	\$1.9700		05/16/2016	\$1.9000	
11/23/2015	\$2.1000		05/23/2016	\$1.7400	
11/30/2015	\$2.0000	\$2.0120	05/30/2016	\$1.7900	\$1.81
11,00,2010	ΨΣ.0000	ΨΕ.Ο.ΙΕΟ	00/00/2010	Ψ1.1000	Ψ1.01
12/07/2015	\$2.1200		06/06/2016	\$2.0800	
12/14/2015	\$1.7900		06/13/2016	\$2.3100	
12/21/2015	\$1.7000		06/20/2016	\$2.5300	
12/28/2015	\$1.5300	\$1.7850	06/27/2016	\$2.6300	\$2.3875
01/04/2016	\$2.3200		07/04/2016	\$2.7600	
01/11/2016	\$2.3600		07/11/2016	\$2.6900	
01/18/2016	\$2.1700		07/18/2016	\$2.6300	
01/25/2016	\$2.1100	\$2.2400	07/25/2016	\$2.7100	\$2.6975
02/01/2016	\$2.1100		08/01/2016	\$2.7000	
02/08/2016	\$2.0100		08/08/2016	\$2.7700	
02/15/2016	\$1.9800		08/15/2016	\$2.6200	
02/22/2016	\$1.7800		08/22/2016	\$2.5700	
02/29/2016	\$1.6600	\$1.9080	08/29/2016	\$2.7500	\$2.6820
03/07/2016	\$1.4700		09/05/2016	\$2.7900	
03/14/2016	\$1.6600		09/12/2016	\$2.7900	
03/21/2016	\$1.7900		09/19/2016	\$2.9000	
03/28/2016	\$1.7100	\$1.6575	09/26/2016	\$3.0200	\$2.8750
04/04/0040	#4.0000		40/00/0040	#0.0500	
04/04/2016	\$1.8000		10/03/2016	\$2.8500	
04/11/2016	\$1.8400		10/10/2016	\$2.9200	
04/18/2016	\$1.6800	¢4.7050	10/17/2016	\$3.1500	
04/25/2016	\$1.8600	\$1.7950	10/24/2016	\$2.9900	#0.00.45
			10/31/2016	\$2.7100	\$2.9240

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

1	NOVEMBER 2015	DE	ECEMBER 2015	JANUARY 2016		FE	BRUARY 2016	١	MARCH 2016	APRIL 2016
DAY	MIDPOINT		MIDPOINT	MIDPOINT	DAY		MIDPOINT		MIDPOINT	MIDPOINT
1 \$	1.8750	\$	2.0250	\$ 2.2750	1	\$	2.2100	\$	1.5250	\$ 1.7950
2 \$	1.8750	\$	2.1200	\$ 2.2750	2	\$	2.1000	\$	1.5050	\$ 1.7000
3 \$	1.8350	\$	2.0850	\$ 2.2750	3	\$	1.9700	\$	1.5300	\$ 1.7000
4 \$	1.8750	\$	2.0900	\$ 2.2750	4	\$	1.9850	\$	1.5100	\$ 1.7000
5 \$	1.9850	\$	2.0400	\$ 2.3200	5	\$	1.9800	\$	1.4400	\$ 1.8000
6 \$	2.0500	\$	2.0400	\$ 2.2550	6	\$	2.0150	\$	1.4400	\$ 1.8150
7 \$	2.0200	\$	2.0400	\$ 2.3000	7	\$	2.0150	\$	1.4400	\$ 1.8100
8 \$	2.0200	\$	1.9850	\$ 2.2750	8	\$	2.0150	\$	1.4500	\$ 1.8400
9 \$		\$	1.8700	\$ 2.3800	9	\$	2.1450	\$	1.4900	\$ 1.8350
10 \$	2.0250	\$	1.8900	\$ 2.3800	10	\$	2.0950	\$	1.5350	\$ 1.8350
11 \$		\$	1.8050	\$ 2.3800	11	\$	2.0400	\$	1.6600	\$ 1.8350
12 \$		\$	1.6750	\$ 2.3750	12	\$	2.0250	\$	1.6950	\$ 1.6900
13 \$	1.9050	\$	1.6750	\$ 2.2650	13	\$	1.9500	\$	1.6950	\$ 1.7500
14 \$	1.9750	\$	1.6750	\$ 2.2150	14	\$	1.9500	\$	1.6950	\$ 1.8100
15 \$		\$	1.6050	\$ 2.1300	15	\$	1.9500	\$	1.6500	\$ 1.7350
16 \$		\$	1.6200	\$ 2.1100	16	\$	1.9500	\$	1.7400	\$ 1.6050
17 \$	2.0300	\$	1.5950	\$ 2.1100	17	\$	1.8250	\$	1.6750	\$ 1.6050
18 \$	1.9400	\$	1.6650	\$ 2.1100	18	\$	1.8150	\$	1.7750	\$ 1.6050
19 \$	2.0450	\$	1.6250	\$ 2.1100	19	\$	1.7900	\$	1.7550	\$ 1.7100
20 \$	2.1050	\$	1.6250	\$ 2.0850	20	\$	1.7350	\$	1.7550	\$ 1.8400
21 \$	2.0900	\$	1.6250	\$ 2.0500	21	\$	1.7350	\$	1.7550	\$ 1.8850
22 \$	2.0900	\$	1.7100	\$ 2.1200	22	\$	1.7350	\$	1.7450	\$ 1.8750
23 \$	2.0900	\$	1.6450	\$ 2.1100	23	\$	1.7250	\$	1.7050	\$ 1.8400
24 \$	2.1050	\$	1.3950	\$ 2.1100	24	\$	1.7250	\$	1.7350	\$ 1.8400
25 \$	2.0600	\$	1.2750	\$ 2.1100	25	\$	1.7300	\$	1.6450	\$ 1.8400
26 \$	1.9600	\$	1.2750	\$ 2.0950	26	\$	1.6950	\$	1.6450	\$ 1.8700
27 \$	1.9600	\$	1.2750	\$ 2.1750	27	\$	1.6200	\$	1.6450	\$ 1.8400
28 \$		\$	1.2750	\$ 2.1600	28	\$	1.6200	\$	1.6450	\$ 1.7950
29 \$		\$	2.1000	\$ 2.0600	29	\$	1.6200	\$	1.6800	\$ 1.8400
30 \$	1.9600	\$	2.3150	\$ 2.0600	30			\$	1.7300	\$ 1.8400
31		\$	2.1400	\$ 2.0600	31			\$	1.7950	
TOTAL \$	59.8100	\$	54.7800	\$ 68.0100	TOTAL	\$	54.7650	\$	50.6850	\$ 53.4800
POSTINGS	30		31	31	POSTINGS		29		31	30
AVERAGE \$	1.9937	\$	1.7671	\$ 2.1939	AVERAGE	\$	1.8884	\$	1.6350	\$ 1.7827

	MAY 2016	JUNE 2016	JULY 2016		AUGUST 2016	- SI	EPTEMBER 2016	(OCTOBER 2016
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOI	NT	MIDPOINT		MIDPOINT
1 \$		\$ 1.9900	\$ 2.7400	1	\$ 2.78		2.8200	\$	2.7400
2 \$		\$ 2.1750	\$ 2.7100	2	\$ 2.73	00 \$	2.7850	\$	2.7400
3 \$	1.8100	\$ 2.1850	\$ 2.7100	3	\$ 2.68	00 \$	2.7450	\$	2.7400
4 \$	1.8550	\$ 2.1800	\$ 2.7100	4	\$ 2.74	00 \$	2.7450	\$	2.7300
5 \$	1.9400	\$ 2.1800	\$ 2.7100	5	\$ 2.74	50 \$	2.7450	\$	2.7500
6 \$	1.8900	\$ 2.1800	\$ 2.5750	6	\$ 2.69	00 \$	2.7450	\$	2.8300
7 \$	1.6950	\$ 2.1600	\$ 2.5950	7	\$ 2.69	00 \$	2.7250	\$	2.8900
8 \$	1.6950	\$ 2.1800	\$ 2.7000	8	\$ 2.69	00 \$	2.7250	\$	2.8950
9 \$	1.6950	\$ 2.2550	\$ 2.5900	9	\$ 2.64		2.7350	\$	2.8950
10 \$	1.8700	\$ 2.2350	\$ 2.5900	10	\$ 2.55		2.8200	\$	2.8950
11 \$	1.9050	\$ 2.3300	\$ 2.5900	11			2.8200	\$	3.0400
12 \$	1.9200	\$ 2.3300	\$ 2.6550	12		00 \$	2.8200	\$	3.1050
13 \$	1.9200	\$ 2.3300	\$ 2.5850	13			2.8850	\$	3.1150
14 \$	1.8350	\$ 2.3700	\$ 2.6000	14			2.9700	\$	3.1100
15 \$	1.8350	\$ 2.4200	\$ 2.6400	15			2.9000	\$	3.0700
16 \$	1.8350	\$ 2.4800	\$ 2.5200	16			2.8500	\$	3.0700
17 \$	1.8150	\$ 2.4300	\$ 2.5200	17			2.9000	\$	3.0700
18 \$	1.8600	\$ 2.4900	\$ 2.5200	18			2.9000	\$	3.0400
19 \$	1.7850	\$ 2.4900	\$ 2.6350	19	\$ 2.56	50 \$	2.9000	\$	3.1550
20 \$	1.6050	\$ 2.4900	\$ 2.6400	20			2.9550	\$	3.1000
21 \$	1.6950	\$ 2.5300	\$ 2.5900	21			3.0600	\$	3.0200
22 \$	1.6950	\$ 2.6850	\$ 2.5950	22			3.0800	\$	2.7800
23 \$	1.6950	\$ 2.6600	\$ 2.6850	23	\$ 2.59		3.0750	\$	2.7800
24 \$	1.8800	\$ 2.5400	\$ 2.6850	24	\$ 2.61		2.9650	\$	2.7800
25 \$		\$ 2.5600	\$ 2.6850	25	\$ 2.70	00 \$	2.9650	\$	2.6850
26 \$		\$ 2.5600	\$ 2.6450	26	\$ 2.75	50 \$	2.9650	\$	2.6950
27 \$		\$ 2.5600	\$ 2.5700	27	\$ 2.77		2.9850	\$	2.6800
28 \$	1.7450	\$ 2.6550	\$ 2.6000	28	\$ 2.77		2.9550	\$	2.6400
29 \$	1.7450	\$ 2.7300	\$ 2.6150	29	\$ 2.77		2.8650	\$	2.6350
30 \$		\$ 2.7900	\$ 2.6150	30	\$ 2.83		2.8700	\$	2.6350
31 \$	1.7450		\$ 2.6150	31	\$ 2.82			\$	2.6350
TOTAL \$	55.4550	\$ 72.1500	\$ 81.4350	TOTAL	\$ 82.00	50 \$	86.2750	\$	88.9450
POSTINGS	31	30	31	POSTINGS		31	30		31
AVERAGE \$	1.7889	\$ 2.4050	\$ 2.6269	AVERAGE	\$ 2.64	53 \$	2.8758	\$	2.8692

PBR-GAIF INDICES TENNESSEE – ZONE 1

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

			PLATTS	
		PLATTS	INSIDE FERC'S	
	NATURAL	GAS DAILY AVERAGE	GAS MARKET REPORT	
	GAS WEEK	LOUISIANA/	LOUISIANA/SOUTHEAST,	
	LOUISIANA, GULF	SOUTHEAST,	TENNESSEE,	
	COAST, ONSHORE	TENNESSEE, 500 LEG	LOUISIANA, 500 LEG	AVERAGE
Nov. 15	\$2.0200	\$2.0287	\$1.9700	\$2.0062
Dec. 15	\$1.7600	\$1.8144	\$2.1500	\$1.9081
Jan. 16	\$2.2575	\$2.2331	\$2.3400	\$2.2769
Feb. 16	\$1.9400	\$1.9174	\$2.1600	\$2.0058
Mar. 16	\$1.6525	\$1.6615	\$1.6600	\$1.6580
Apr. 16	\$1.8225	\$1.8262	\$1.8400	\$1.8296
May 16	\$1.8260	\$1.8356	\$1.9200	\$1.8605
Jun. 16	\$2.4175	\$2.4667	\$1.8900	\$2.2581
Jul. 16	\$2.7325	\$2.7355	\$2.8600	\$2.7760
Aug. 16	\$2.7080	\$2.7200	\$2.6100	\$2.6793
Sep. 16	\$2.8925	\$2.9198	\$2.7900	\$2.8674
Oct. 16	\$2.8460	\$2.8810	\$2.9000	\$2.8757

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

	NATURAL GAS WEEK	MONITHIN		NATURAL GAS WEEK	
	LOUISIANA, GULF	MONTHLY		LOUISIANA, GULF	MONTHLY
	COAST, ONSHORE	AVERAGE		COAST, ONSHORE	AVERAGE
11/02/2015	\$2.0000		05/02/2016	\$1.8600	
11/09/2015	\$2.0000		05/09/2016	\$1.7900	
11/16/2015	\$1.9900		05/16/2016	\$1.9000	
11/23/2015	\$2.1200		05/23/2016	\$1.7600	
11/30/2015	\$1.9900	\$2.0200	05/30/2016	\$1.8200	\$1.8260
12/07/2015	\$2.0800		06/06/2016	\$2.1400	
12/14/2015	\$1.7900		06/13/2016	\$2.3400	
12/21/2015	\$1.6700		06/20/2016	\$2.5500	
12/28/2015	\$1.5000	\$1.7600	06/27/2016	\$2.6400	\$2.4175
01/04/2016	\$2.2700		07/04/2016	\$2.7900	
01/11/2016	\$2.3900		07/11/2016	\$2.7500	
01/18/2016	\$2.2100		07/18/2016	\$2.6600	
01/25/2016	\$2.1600	\$2.2575	07/25/2016	\$2.7300	\$2.7325
02/01/2016	\$2.1300		08/01/2016	\$2.7200	
02/08/2016	\$2.0500		08/08/2016	\$2.7900	
02/15/2016	\$2.0300		08/15/2016	\$2.6400	
02/22/2016	\$1.8300		08/22/2016	\$2.6200	
02/29/2016	\$1.6600	\$1.9400	08/29/2016	\$2.7700	\$2.7080
03/07/2016	\$1.4900		09/05/2016	\$2.8200	
03/14/2016	\$1.6300		09/12/2016	\$2.8000	
03/21/2016	\$1.7800		09/19/2016	\$2.9300	
03/28/2016	\$1.7100	\$1.6525	09/26/2016	\$3.0200	\$2.8925
04/04/2016	\$1.8100		10/03/2016	\$2.8400	
04/11/2016	\$1.8900		10/10/2016	\$2.8800	
04/18/2016	\$1.7200		10/17/2016	\$3.0700	
04/25/2016	\$1.8700	\$1.8225	10/24/2016	\$2.8300	
			10/31/2016	\$2.6100	\$2.8460

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

NO	OVEMBER	DE	CEMBER	J	IANUARY		F	EBRUARY	MARCH		APRIL
	2015		2015		2016			2016	2016		2016
DAY	MIDPOINT		MIDPOINT		MIDPOINT	DAY		MIDPOINT	MIDPOINT		MIDPOINT
1 \$	1.9100	\$	2.0650	\$	2.3000	1	\$	2.2400	\$ 1.5450	\$	1.8500
2 \$	1.9100	\$	2.1450	\$	2.3000	2		2.1000	\$ 1.5500	\$	1.8100
3 \$	1.8950	\$	2.1750	\$	2.3000	3		1.9850	\$ 1.5500	\$	1.8100
4 \$	1.8950	\$	2.0850	\$	2.3000	4	\$	2.0250	\$ 1.5400	\$	1.8100
5 \$	2.0150	\$	2.0650	\$	2.3700	5	\$	2.0050	\$ 1.4750	\$	1.8550
6 \$	2.0750	\$	2.0650	\$	2.2800	6	\$	2.0450	\$ 1.4750	\$	1.8200
7 \$	2.1000	\$	2.0650	\$	2.3200	7	\$	2.0450	\$ 1.4750	\$	1.8150
8 \$	2.1000	\$	2.0050	\$	2.3150	8	-	2.0450	\$ 1.5000	\$	1.8700
9 \$	2.1000	\$	1.9450	\$	2.4250	9	\$	2.1800	\$ 1.5200	\$	1.8650
10 \$	2.0550	\$	1.9350	\$	2.4250	10	\$	2.1450	\$ 1.5500	\$	1.8650
11 \$	2.0700	\$	1.8150	\$	2.4250	11		2.0900	\$ 1.6500	\$	1.8650
12 \$	2.0300	\$	1.6750	\$	2.4350		\$	2.0600	\$ 1,6700	\$	1.8050
13 \$	1.9550	\$	1.6750	\$	2.3150		\$	1.9800	\$ 1,6700	\$	1.8550
14 \$	1.9900	\$	1.6750	\$	2.2500	14		1.9800	\$ 1.6700	\$	1.8550
15 \$	1.9900	\$	1.6200	\$	2.1650	15		1.9800	\$ 1.6450	\$	1.7750
16 \$	1.9900	\$	1.6050	\$	2.1750		\$	1.9800	\$ 1.7450	\$	1.6200
17 \$	2.0500	\$	1.6600	\$	2.1750	17		1.8450	\$ 1.7100	\$	1.6200
18 \$	1.9500	\$	1.7150	\$	2.1750		\$	1.8550	\$ 1.7700	Š	1.6200
19 \$	2.0550	\$	1.6650	\$	2.1750		\$	1.8300	\$ 1.8300	\$	1.7250
20 \$	2.1500	\$	1.6650	\$	2.1400	20		1.7550	\$ 1.8300	\$	1.8700
21 \$	2.1650	\$	1.6650	\$	2.1150		\$	1.7550	\$ 1.8300	\$	1.9050
22 \$	2.1650	\$	1.7350	\$	2.1600		\$	1.7550	\$ 1.7550	\$	1.8950
23 \$	2.1650	\$	1.6800	\$	2.1550		\$	1.7700	\$ 1.7250	\$	1.8900
24 \$	2.1400	\$	1.5150	\$	2.1550	24		1.7450	\$ 1.7850	\$	1.8900
25 \$	2.0650	\$	1.4250	\$	2.1550		\$	1.7550	\$ 1.6800	\$	1.8900
26 \$	1.9750	\$	1.4250	\$	2.1000	26		1.7350	\$ 1.6800	\$	1.8950
27 \$	1.9750	\$	1.4250	\$	2.1850	27		1.6400	\$ 1.6800	\$	1.8650
28 \$	1.9750	\$	1.4250	\$	2.1800	28	-	1.6400	\$ 1.6800	\$	1.8750
29 \$	1.9750	\$	2.0750	\$	2.0850	29		1.6400	\$ 1.7350	\$	1.8500
30 \$	1.9750	\$	2.3250	\$	2.0850	30			\$ 1.7550	\$	1.8500
31		\$	2.2300	\$	2.0850	31			\$ 1.8300	*	1.0000
TOTAL \$	60.8600	\$	56.2450	\$	69.2250	TOTAL	\$	55.6050	\$ 51.5050	\$	54.7850
POSTINGS	30		31		31	POSTINGS		29	31		30
AVERAGE \$	2.0287	\$	1.8144	\$	2.2331	AVERAGE	\$	1.9174	\$ 1.6615	\$	1.8262

	MAY 2016	JUNE 2016	JULY		ļ	AUGUST	SE	PTEMBER	(OCTOBER
	2010	2010	2016			2016		2016		2016
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	J	MIDPOINT		MIDPOINT		MIDPOINT
1 \$		\$ 2.0600	\$ 2.8500	1	\$	2.8650	\$	2.8650	\$	2.8000
2 \$		\$ 2.2000	\$ 2.8150	2	\$	2.8250	\$	2.8250	\$	2.8000
3 \$		\$ 2.2400	\$ 2.8150	3	•	2.7500	\$	2.7800	\$	2.8000
4 \$		\$ 2.2200	\$ 2.8150	4	\$	2.8250	\$	2.7800	\$	2.8050
5 \$		\$ 2.2200	\$ 2.8150	5	\$	2.8300	\$	2.7800	\$	2.8350
6 \$		\$ 2.2200	\$ 2.7600	6	\$	2.7750	\$	2.7800	\$	2.8650
7 \$		\$ 2.2600	\$ 2.7300	7	\$	2.7750	\$	2.7800	\$	2.9550
8 \$		\$ 2.2450	\$ 2.7900	8	\$	2.7750	\$	2.7600	\$	2.9100
9 \$		\$ 2.3000	\$ 2.7250	9	\$	2.7150	\$	2.8000	\$	2.9100
10 \$		\$ 2.2950	\$ 2.7250	10	\$	2.6850	\$	2.8750	\$	2.9100
11 \$		\$ 2.3850	\$ 2.7250	11	\$	2.6100	\$	2.8750	\$	3.1050
12 \$		\$ 2.3850	\$ 2.7650	12		2.5700	\$	2.8750	\$	3.1000
13 \$		\$ 2.3850	\$ 2.7050	13		2.6250	\$	2.9450	\$	3.1150
14 \$		\$ 2.5000	\$ 2.7500	14	•	2.6250	\$	2.9950	\$	3.0950
15 \$		\$ 2.4900	\$ 2.7250	15	\$	2.6250	\$	2.9800	\$	3.0850
16 \$		\$ 2.5600	\$ 2.6450	16	\$	2.6450	\$	2.9050	\$	3.0850
17 \$		\$ 2.5200	\$ 2.6450	17	\$	2.6250	\$	2.9350	\$	3.0850
18 \$		\$ 2.5350	\$ 2.6450	18	\$	2.6300	\$	2.9350	\$	3.0850
19 \$		\$ 2.5350	\$ 2.7550	19	\$	2.6300	\$	2.9350	\$	3.1450
20 \$		\$ 2.5350	\$ 2.7550	20	\$	2.5900	\$	2.9650	\$	3.0800
21 \$		\$ 2.6550	\$ 2.6600	21	\$	2.5900	\$	3.0650	\$	3.0000
22 \$		\$ 2.7100	\$ 2.6650	22	\$	2.5900	\$	3.1100	\$	2.7550
23 \$		\$ 2.7250	\$ 2.7350	23	\$	2.6450	\$	3.1000	\$	2.7550
24 \$		\$ 2.6300	\$ 2.7350	24	\$	2.6800	\$	3.0300	\$	2.7550
25 \$	1.8250	\$ 2.6250	\$ 2.7350	25	\$	2.7650	\$	3.0300	\$	2.6650
26 \$		\$ 2.6250	\$ 2.7750	26	\$	2.8000	\$	3.0300	\$	2.6350
27 \$		\$ 2.6250	\$ 2.6750	27	\$	2.8200	\$	3.0250	\$	2.6550
28 \$		\$ 2.6800	\$ 2.7200	28	\$	2.8200	\$	2.9950	\$	2.6450
29 \$		\$ 2.7950	\$ 2.7150	29	\$	2.8200	\$	2.9350	\$	2.6250
30 \$		\$ 2.8400	\$ 2.7150	30	\$	2.9000	\$	2.9050	\$	2.6250
31 \$	1.8600		\$ 2.7150	31	\$	2.8950			\$	2.6250
TOTAL \$	56.9050	\$ 74.0000	\$ 84.8000	TOTAL	\$	84.3200	\$	87.5950	\$	89.3100
POSTINGS	31	30	31	POSTINGS		31		30		31
AVERAGE \$	1.8356	\$ 2.4667	\$ 2.7355	AVERAGE	\$	2.7200	\$	2.9198	\$	2.8810

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

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub November 2015

		CALCULATI	ON OF DAI	LY DAI TGT ZON	E 1		CALCULATI	ON OF DAIL	Y DAI TGT ZONE	E 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY			` '	(- /
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z	DNES	HIGHER OF		TOTAL
	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	161-1	RETENTION	DEMAND	COMMODITY	TGT-1	IGI-4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2.4518	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2.4518	\$2,4518	\$2.4518	\$2.4518	0	\$0
2	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2.4518	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2.4518	\$2.4518	\$2.4518	\$2.4518	o o	\$0
3	\$1.8600	2.54%	\$0.4190	\$0.0628	\$2.3903	\$1.8600	2.54%	\$0.4190	\$0.0628	\$2,3903	\$2.3903	\$2.3903	\$2.3903	ñ	\$0
4	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8800	2.54%	\$0.4190	\$0.0628	\$2.4108	\$2,3851	\$2.4108	\$2.4108	ñ	\$0
5	\$1.9550	2.54%	\$0.4190	\$0.0628	\$2.4878	\$2.0450	2.54%	\$0.4190	\$0.0628	\$2.5801	\$2.4878	\$2.5801	\$2.5801	ň	\$0
6	\$2.0350	2.54%	\$0.4190	\$0.0628	\$2.5698	\$2.1200	2.54%	\$0.4190	\$0.0628	\$2.6571	\$2.5698	\$2.6571	\$2.6571	ő	\$0
7	\$2.1050	2.54%	\$0.4190	\$0.0628	\$2.6417	\$2.0900	2.54%	\$0.4190	\$0.0628	\$2.6263	\$2.6417	\$2.6263	\$2.6417	ő	\$0
8	\$2.1050	2.54%	\$0.4190	\$0.0628	\$2.6417	\$2.0900	2.54%	\$0.4190	\$0.0628	\$2.6263	\$2.6417	\$2.6263	\$2.6417	Ď	\$0
9	\$2.1050	2.54%	\$0.4190	\$0.0628	\$2.6417	\$2.0900	2.54%	\$0.4190	\$0.0628	\$2.6263	\$2,6417	\$2.6263	\$2.6417	0	\$0
10	\$2.0300	2.54%	\$0.4190	\$0.0628	\$2.5647	\$2.0500	2.54%	\$0.4190	\$0.0628	\$2.5852	\$2.5647	\$2.5852	\$2.5852	ŏ	\$0
11	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.6006	\$2,6006	\$2.6006	ō	\$0
12	\$2.0500	2.54%	\$0.4190	\$0.0628	\$2.5852	\$2.0750	2.54%	\$0.4190	\$0.0628	\$2.6109	\$2.5852	\$2.6109	\$2.6109	ō	\$0
13	\$1.9350	2.54%	\$0.4190	\$0.0628	\$2.4672	\$1.9650	2.54%	\$0.4190	\$0.0628	\$2.4980	\$2.4672	\$2.4980	\$2.4980	ō	\$0
14	\$1.9600	2.54%	\$0.4190	\$0.0628	\$2.4929	\$1.9650	2.54%	\$0.4190	\$0.0628	\$2.4980	\$2.4929	\$2,4980	\$2.4980	ō	\$0
15	\$1.9600	2.54%	\$0.4190	\$0.0628	\$2.4929	\$1.9650	2.54%	\$0.4190	\$0.0628	\$2.4980	\$2.4929	\$2.4980	\$2.4980	0	\$0
16	\$1.9600	2.54%	\$0.4190	\$0.0628	\$2.4929	\$1.9650	2.54%	\$0.4190	\$0.0628	\$2.4980	\$2,4929	\$2.4980	\$2.4980	0	\$0
17	\$2.0300	2.54%	\$0.4190	\$0.0628	\$2.5647	\$2.0700	2.54%	\$0.4190	\$0.0628	\$2.6057	\$2.5647	\$2.6057	\$2.6057	Ö	\$0
18	\$1.9500	2.54%	\$0.4190	\$0.0628	\$2.4826	\$1.9850	2.54%	\$0.4190	\$0.0628	\$2.5185	\$2.4826	\$2.5185	\$2.5185	Ō	\$0
19	\$2.0500	2.54%	\$0.4190	\$0.0628	\$2.5852	\$2.0900	2.54%	\$0.4190	\$0.0628	\$2.6263	\$2.5852	\$2.6263	\$2.6263	0	\$0
20	\$2.1050	2.54%	\$0.4190	\$0.0628	\$2.6417	\$2.1600	2.54%	\$0.4190	\$0.0628	\$2.6981	\$2.6417	\$2.6981	\$2.6981	0	\$0
21	\$2.1600	2.54%	\$0.4190	\$0.0628	\$2.6981	\$2.2050	2.54%	\$0.4190	\$0.0628	\$2.7443	\$2.6981	\$2.7443	\$2.7443	0	\$0
22	\$2.1600	2.54%	\$0.4190	\$0.0628	\$2.6981	\$2.2050	2.54%	\$0.4190	\$0.0628	\$2.7443	\$2.6981	\$2.7443	\$2.7443	0	\$0
23	\$2.1600	2.54%	\$0.4190	\$0.0628	\$2.6981	\$2.2050	2.54%	\$0.4190	\$0.0628	\$2,7443	\$2.6981	\$2.7443	\$2.7443	0	\$0
24	\$2.1200	2.54%	\$0.4190	\$0.0628	\$2.6571	\$2.1700	2.54%	\$0.4190	\$0.0628	\$2.7084	\$2.6571	\$2.7084	\$2.7084	0	\$0
25	\$2.0800	2.54%	\$0.4190	\$0.0628	\$2.6160	\$2.1100	2.54%	\$0.4190	\$0.0628	\$2.6468	\$2.6160	\$2.6468	\$2.6468	0	\$0
26	\$1.9500	2.54%	\$0.4190	\$0.0628	\$2.4826	\$1.9900	2.54%	\$0.4190	\$0.0628	\$2.5237	\$2.4826	\$2.5237	\$2.5237	0	\$0
27	\$1.9500	2.54%	\$0.4190	\$0.0628	\$2.4826	\$1.9900	2.54%	\$0.4190	\$0.0628	\$2.5237	\$2.4826	\$2.5237	\$2.5237	0	\$0
28	\$1.9500	2.54%	\$0.4190	\$0.0628	\$2.4826	\$1.9900	2.54%	\$0.4190	\$0.0628	\$2.5237	\$2.4826	\$2.5237	\$2.5237	0	\$0
29	\$1.9500	2.54%	\$0.4190	\$0.0628	\$2.4826	\$1.9900	2.54%	\$0.4190	\$0.0628	\$2.5237	\$2.4826	\$2.5237	\$2.5237	0	\$0
30	\$1.9500	2.54%	\$0.4190	\$0.0628	\$2.4826	\$1.9900	2.54%	\$0.4190	\$0.0628	\$2.5237	\$2.4826	\$2.5237	\$2.5237	0	\$0
														0	\$0
															**

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub December 2015

		CALCULATI	ON OF DAIL	LY DAI TGT ZON	E 1		CALCULATI	ON OF DAII	LY DAI TGT ZONI	∃ 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY	'DAI `	• •	()	(14)
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z	DNES	HIGHER OF		TOTAL
	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	TGT-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT-4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.0600	2.54%	\$0.4190	\$0.0628	\$2.5955	\$2.1200	2.54%	\$0.4190	\$0.0628	\$2.6571	\$2.5955	\$2.6571	\$2.6571	0	\$0
2	\$2.1250	2.54%	\$0.4190	\$0.0628	\$2.6622	\$2.1850	2.54%	\$0.4190	\$0.0628	\$2.7237	\$2.6622	\$2.7237	\$2.7237	0	\$0
3	\$2.1550	2.54%	\$0.4190	\$0.0628	\$2.6930	\$2.1750	2.54%	\$0.4190	\$0.0628	\$2.7135	\$2.6930	\$2.7135	\$2.7135	0	\$0
4	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.1100	2.54%	\$0.4190	\$0.0628	\$2.6468	\$2.6006	\$2.6468	\$2.6468	0	\$0
5	\$2.0400	2.54%	\$0.4190	\$0.0628	\$2.5750	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.5750	\$2.6006	\$2.6006	0	\$0
6	\$2.0400	2.54%	\$0.4190	\$0.0628	\$2,5750	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.5750	\$2.6006	\$2.6006	0	\$0
7	\$2.0400	2.54%	\$0.4190	\$0.0628	\$2.5750	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.5750	\$2.6006	\$2.6006	0	\$0
8	\$1.9800	2.54%	\$0.4190	\$0.0628	\$2.5134	\$2.0050	2.54%	\$0.41 9 0	\$0.0628	\$2.5391	\$2.5134	\$2.5391	\$2.5391	0	\$0
9	\$1.9250	2.54%	\$0.4190	\$0.0628	\$2.4570	\$1.9300	2.54%	\$0.4190	\$0.0628	\$2.4621	\$2.4570	\$2,4621	\$2.4621	0	\$0
10	\$1.9300	2,54%	\$0.4190	\$0.0628	\$2.4621	\$1.9600	2.54%	\$0.4190	\$0.0628	\$2,4929	\$2.4621	\$2,4929	\$2.4929	0	\$0
11	\$1.8500	2,54%	\$0.4190	\$0.0628	\$2.3800	\$1.8800	2.54%	\$0.4190	\$0.0628	\$2.4108	\$2.3800	\$2.4108	\$2.4108	0	\$0
12	\$1.6950	2.54%	\$0.4190	\$0.0628	\$2.2210	\$1.7100	2.54%	\$0.4190	\$0.0628	\$2.2364	\$2.2210	\$2.2364	\$2.2364	0	\$0
13	\$1.6950	2.54%	\$0.4190	\$0.0628	\$2.2210	\$1.7100	2.54%	\$0,4190	\$0.0628	\$2.2364	\$2.2210	\$2.2364	\$2.2364	0	\$0
14	\$1.6950	2.54%	\$0.4190	\$0.0628	\$2.2210	\$1.7100	2.54%	\$0.4190	\$0.0628	\$2.2364	\$2.2210	\$2.2364	\$2.2364	0	\$0
15	\$1.6100	2.54%	\$0.4190	\$0.0628	\$2,1338	\$1.6850	2.54%	\$0.4190	\$0.0628	\$2.2107	\$2.1338	\$2.2107	\$2.2107	0	\$0
16	\$1.5850	2.54%	\$0.4190	\$0.0628	\$2.1081	\$1.6550	2.54%	\$0.4190	\$0.0628	\$2.1799	\$2.1081	\$2.1799	\$2.1799	0	\$0
17	\$1.6650	2.54%	\$0.4190	\$0.0628	\$2.1902	\$1.7550	2.54%	\$0.4190	\$0.0628	\$2.2825	\$2.1902	\$2.2825	\$2.2825	0	\$0
18	\$1.7150	2,54%	\$0.4190	\$0.0628	\$2.2415	\$1.7750	2.54%	\$0.4190	\$0.0628	\$2.3031	\$2.2415	\$2.3031	\$2.3031	0	\$0
19	\$1.6500	2.54%	\$0.4190	\$0.0628	\$2.1748	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$2.1748	\$2.2415	\$2.2415	0	\$0
20	\$1.6500	2.54%	\$0.4190	\$0.0628	\$2.1748	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$2.1748	\$2.2415	\$2.2415	0	\$0
21	\$1.6500	2.54%	\$0.4190	\$0.0628	\$2.1748	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$2.1748	\$2.2415	\$2.2415	0	\$0
22	\$1.6800	2.54%	\$0.4190	\$0.0628	\$2.2056	\$1.7600	2.54%	\$0.4190	\$0.0628	\$2.2877	\$2.2056	\$2.2877	\$2.2877	0	\$0
23	\$1.6550	2.54%	\$0.4190	\$0.0628	\$2.1799	\$1.7650	2.54%	\$0.4190	\$0.0628	\$2.2928	\$2.1799	\$2.2928	\$2.2928	0	\$0
24	\$1.4950	2.54%	\$0.4190	\$0.0628	\$2.0158	\$1.6200	2.54%	\$0.4190	\$0.0628	\$2.1440	\$2.0158	\$2.1440	\$2.1440	0	\$0
25	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4800	2.54%	\$0.4190	\$0.0628	\$2.0004	\$1.9542	\$2.0004	\$2.0004	0	\$0
26	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4800	2.54%	\$0.4190	\$0.0628	\$2.0004	\$1.9542	\$2.0004	\$2.0004	0	\$0
27	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4800	2.54%	\$0.4190	\$0.0628	\$2.0004	\$1.9542	\$2.0004	\$2.0004	0	\$0
28	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4800	2.54%	\$0.4190	\$0.0628	\$2.0004	\$1.9542	\$2.0004	\$2.0004	0	\$0
29	\$2.0650	2.54%	\$0.4190	\$0.0628	\$2.6006	\$2.2000	2.54%	\$0.4190	\$0.0628	\$2.7391	\$2.6006	\$2.7391	\$2.7391	0	\$0
30	\$2.3350	2.54%	\$0.4190	\$0.0628	\$2.8777	\$2.4800	2.54%	\$0.4190	\$0.0628	\$3.0264	\$2.8777	\$3.0264	\$3.0264	0	\$0
31	\$2.2100	2.54%	\$0.4190	\$0.0628	\$2.7494	\$2.3150	2.54%	\$0.4190	\$0.0628	\$2.8571	\$2.7494	\$2.8571	\$2.8571	0	\$0
															·
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub January 2016

		CALCULATI	ON OF DAIL	LY DAI TGT ZONI	E 1		CALCULATI	ON OF DAIL	Y DAI TGT ZONE	 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY		\ - /	(,	(10)
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z	ONES	HIGHER OF		TOTAL
_	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	TGT-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.2950	2.54%	\$0.4190	\$0.0628	\$2.8366	\$2.3400	2.54%	\$0.4190	\$0.0628	\$2.8828	\$2.8366	\$2.8828	\$2.8828	0	\$0
2	\$2.2950	2.54%	\$0.4190	\$0.0628	\$2.8366	\$2.3400	2.54%	\$0.4190	\$0.0628	\$2.8828	\$2.8366	\$2.8828	\$2.8828	ŏ	\$0
3	\$2.2950	2.54%	\$0.4190	\$0.0628	\$2.8366	\$2.3400	2.54%	\$0.4190	\$0.0628	\$2.8828	\$2.8366	\$2.8828	\$2.8828	ō	\$0
4	\$2.2950	2.54%	\$0.4190	\$0.0628	\$2.8366	\$2.3400	2.54%	\$0.4190	\$0.0628	\$2.8828	\$2.8366	\$2.8828	\$2.8828	ō	\$0
5	\$2.3600	2.54%	\$0.4190	\$0.0628	\$2.9033	\$2.4200	2.54%	\$0.4190	\$0.0628	\$2.9649	\$2.9033	\$2.9649	\$2.9649	ō	\$0
6	\$2.2700	2.54%	\$0.4190	\$0.0628	\$2.8110	\$2.3050	2.54%	\$0.4190	\$0.0628	\$2.8469	\$2.8110	\$2.8469	\$2.8469	ō	\$0
7	\$2.2950	2.54%	\$0.4190	\$0.0628	\$2.8366	\$2.3450	2.54%	\$0.4190	\$0.0628	\$2.8879	\$2.8366	\$2,8879	\$2.8879	ō	\$0
8	\$2.2900	2.54%	\$0.4190	\$0.0628	\$2.8315	\$2.3450	2.54%	\$0.4190	\$0.0628	\$2.8879	\$2.8315	\$2.8879	\$2.8879	Ô	\$0
9	\$2.4200	2.54%	\$0.4190	\$0.0628	\$2.9649	\$2.5150	2.54%	\$0.4190	\$0.0628	\$3.0623	\$2.9649	\$3.0623	\$3.0623	ō	\$0
10	\$2.4200	2.54%	\$0.4190	\$0.0628	\$2.9649	\$2.5150	2.54%	\$0.4190	\$0.0628	\$3.0623	\$2.9649	\$3.0623	\$3.0623	ō	\$0
11	\$2.4200	2.54%	\$0.4190	\$0.0628	\$2.9649	\$2.5150	2.54%	\$0.4190	\$0.0628	\$3.0623	\$2.9649	\$3.0623	\$3.0623	ň	\$0
12	\$2.4500	2.54%	\$0.4190	\$0.0628	\$2.9957	\$2.5100	2.54%	\$0.4190	\$0.0628	\$3.0572	\$2.9957	\$3.0572	\$3.0572	ő	\$0
13	\$2.3000	2.54%	\$0.4190	\$0.0628	\$2.8417	\$2.3450	2.54%	\$0.4190	\$0.0628	\$2.8879	\$2.8417	\$2.8879	\$2.8879	Ô	\$0
14	\$2.2200	2.54%	\$0.4190	\$0.0628	\$2.7597	\$2.2650	2.54%	\$0.4190	\$0.0628	\$2.8058	\$2.7597	\$2.8058	\$2.8058	0	\$0
15	\$2.1600	2.54%	\$0.4190	\$0.0628	\$2.6981	\$2.2100	2.54%	\$0.4190	\$0.0628	\$2,7494	\$2.6981	\$2.7494	\$2,7494	ō	\$0
16	\$2.1550	2.54%	\$0.4190	\$0.0628	\$2.6930	\$2.2400	2.54%	\$0.4190	\$0.0628	\$2.7802	\$2.6930	\$2.7802	\$2.7802	Ô	\$0
17	\$2.1550	2.54%	\$0.4190	\$0.0628	\$2.6930	\$2.2400	2.54%	\$0.4190	\$0.0628	\$2.7802	\$2.6930	\$2.7802	\$2.7802	0	\$0
18	\$2.1550	2.54%	\$0.4190	\$0.0628	\$2.6930	\$2.2400	2.54%	\$0.4190	\$0.0628	\$2.7802	\$2.6930	\$2.7802	\$2.7802	ő	\$0
19	\$2.1550	2.54%	\$0.4190	\$0.0628	\$2.6930	\$2.2400	2.54%	\$0.4190	\$0.0628	\$2.7802	\$2.6930	\$2.7802	\$2.7802	o o	\$0
20	\$2.1350	2.54%	\$0.4190	\$0.0628	\$2.6724	\$2.2050	2.54%	\$0.4190	\$0.0628	\$2,7443	\$2.6724	\$2.7443	\$2.7443	o o	\$0
21	\$2.1250	2.54%	\$0.4190	\$0.0628	\$2.6622	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.6622	\$2.6827	\$2.6827	Ô	\$0
22	\$2.1550	2.54%	\$0.4190	\$0.0628	\$2.6930	\$2.1750	2.54%	\$0.4190	\$0.0628	\$2.7135	\$2.6930	\$2.7135	\$2.7135	ñ	\$0
23	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.6827	\$2.6827	\$2.6827	ő	\$0
24	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.6827	\$2.6827	\$2.6827	ő	\$0
25	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.1450	2.54%	\$0.4190	\$0.0628	\$2.6827	\$2.6827	\$2.6827	\$2.6827	ő	\$0
26	\$2.0850	2.54%	\$0.4190	\$0.0628	\$2.6211	\$2.1300	2.54%	\$0.4190	\$0.0628	\$2.6673	\$2.6211	\$2.6673	\$2.6673	Ô	\$0
27	\$2.1900	2.54%	\$0.4190	\$0.0628	\$2.7289	\$2.1950	2.54%	\$0.4190	\$0.0628	\$2.7340	\$2.7289	\$2.7340	\$2.7340	Ô	\$0
28	\$2.1750	2.54%	\$0.4190	\$0.0628	\$2.7135	\$2.1700	2.54%	\$0.4190	\$0.0628	\$2.7084	\$2.7135	\$2.7084	\$2.7135	ő	\$0
29	\$2.0550	2.54%	\$0.4190	\$0.0628	\$2.5904	\$2.0450	2.54%	\$0.4190	\$0.0628	\$2.5801	\$2.5904	\$2.5801	\$2.5904	ő	\$0
30	\$2.0550	2.54%	\$0.4190	\$0.0628	\$2.5904	\$2.0450	2.54%	\$0.4190	\$0.0628	\$2.5801	\$2.5904	\$2.5801	\$2.5904	ő	\$0
31	\$2.0550	2.54%	\$0.4190	\$0.0628	\$2.5904	\$2.0450	2.54%	\$0.4190	\$0.0628	\$2.5801	\$2.5904	\$2.5801	\$2.5904	ő	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub February 2016

_		CALCULATI	ON OF DAIL	LY DAI TGT ZONI	E 1		CALCULATI	ON OF DAIL	Y DAI TGT ZONE	≣ 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY				
	GAS DAILY MIDPOINT	CUE	NING		+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
Day		FUEL RETENTION	NNS	NNS COMMODITY	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	101-1	RETENTION	DEMAND	COMMODITY	161-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.2100	2.54%	\$0.4190	\$0.0628	\$2.7494	\$2.2450	2.54%	\$0.4190	\$0.0628	\$2.7853	\$2.7494	\$2.7853	\$2.7853	0	\$0
2	\$2.0750	2.54%	\$0.4190	\$0.0628	\$2.6109	\$2.1350	2.54%	\$0.4190	\$0.0628	\$2.6724	\$2.6109	\$2.6724	\$2.6724	ň	\$0
3	\$1.9550	2.54%	\$0.4190	\$0.0628	\$2.4878	\$2.0100	2.54%	\$0.4190	\$0.0628	\$2.5442	\$2,4878	\$2.5442	\$2.5442	ň	\$0
4	\$1.9950	2.54%	\$0.4190	\$0.0628	\$2.5288	\$2.0350	2.54%	\$0.4190	\$0.0628	\$2.5698	\$2.5288	\$2.5698	\$2.5698	ñ	\$0
5	\$1.9800	2.54%	\$0.4190	\$0.0628	\$2.5134	\$2.0150	2.54%	\$0.4190	\$0.0628	\$2.5493	\$2.5134	\$2.5493	\$2.5493	ñ	\$0
6	\$2.0250	2.54%	\$0.4190	\$0.0628	\$2.5596	\$2.0300	2.54%	\$0.4190	\$0.0628	\$2.5647	\$2.5596	\$2.5647	\$2.5647	ő	\$0
7	\$2.0250	2.54%	\$0.4190	\$0.0628	\$2.5596	\$2.0300	2.54%	\$0.4190	\$0.0628	\$2.5647	\$2.5596	\$2.5647	\$2.5647	Ô	\$0
8	\$2.0250	2.54%	\$0.4190	\$0.0628	\$2.5596	\$2.0300	2.54%	\$0.4190	\$0.0628	\$2.5647	\$2.5596	\$2.5647	\$2.5647	ő	\$0
9	\$2.1700	2.54%	\$0.4190	\$0.0628	\$2.7084	\$2.2000	2.54%	\$0.4190	\$0.0628	\$2.7391	\$2.7084	\$2.7391	\$2.7391	ō	\$0
10	\$2.1300	2.54%	\$0.4190	\$0.0628	\$2.6673	\$2.1500	2.54%	\$0.4190	\$0.0628	\$2.6878	\$2.6673	\$2.6878	\$2.6878	ō	\$0
11	\$2.0750	2.54%	\$0.4190	\$0.0628	\$2.6109	\$2.0900	2.54%	\$0.4190	\$0.0628	\$2.6263	\$2.6109	\$2.6263	\$2.6263	Ö	\$0
12	\$2.0550	2.54%	\$0.4190	\$0.0628	\$2.5904	\$2.0900	2.54%	\$0.4190	\$0.0628	\$2.6263	\$2.5904	\$2.6263	\$2.6263	ō	\$0
13	\$1.9850	2.54%	\$0.4190	\$0.0628	\$2.5185	\$2.0100	2.54%	\$0.4190	\$0.0628	\$2.5442	\$2.5185	\$2.5442	\$2.5442	0	\$0
14	\$1.9850	2.54%	\$0.4190	\$0.0628	\$2.5185	\$2.0100	2.54%	\$0.4190	\$0.0628	\$2.5442	\$2.5185	\$2.5442	\$2.5442	0	\$0
15	\$1.9850	2.54%	\$0.4190	\$0.0628	\$2.5185	\$2.0100	2.54%	\$0.4190	\$0.0628	\$2.5442	\$2.5185	\$2.5442	\$2.5442	0	\$0
16	\$1.9850	2.54%	\$0.4190	\$0.0628	\$2.5185	\$2.0100	2.54%	\$0.4190	\$0.0628	\$2.5442	\$2.5185	\$2.5442	\$2.5442	0	\$0
17	\$1.8300	2.54%	\$0.4190	\$0.0628	\$2.3595	\$1.8300	2.54%	\$0.4190	\$0.0628	\$2.3595	\$2.3595	\$2.3595	\$2.3595	0	\$0
18	\$1.8000	2.54%	\$0.4190	\$0.0628	\$2.3287	\$1.8000	2.54%	\$0.4190	\$0.0628	\$2.3287	\$2.3287	\$2.3287	\$2.3287	0	\$0
19	\$1.7900	2.54%	\$0.4190	\$0.0628	\$2.3185	\$1,7800	2.54%	\$0.4190	\$0.0628	\$2.3082	\$2.3185	\$2.3082	\$2.3185	0	\$0
20	\$1.7300	2.54%	\$0.4190	\$0.0628	\$2.2569	\$1.7400	2.54%	\$0.4190	\$0.0628	\$2.2671	\$2.2569	\$2.2671	\$2.2671	0	\$0
21	\$1.7300	2.54%	\$0.4190	\$0.0628	\$2.2569	\$1.7400	2.54%	\$0.4190	\$0.0628	\$2,2671	\$2.2569	\$2.2671	\$2.2671	0	\$0
22	\$1.7300	2.54%	\$0.4190	\$0.0628	\$2.2569	\$1.7400	2.54%	\$0.4190	\$0.0628	\$2.2671	\$2.2569	\$2.2671	\$2.2671	0	\$0
23	\$1.7450	2.54%	\$0.4190	\$0.0628	\$2.2723	\$1.7550	2.54%	\$0.4190	\$0.0628	\$2.2825	\$2.2723	\$2.2825	\$2.2825	0	\$0
24	\$1.7400	2.54%	\$0.4190	\$0.0628	\$2.2671	\$1.7450	2.54%	\$0.4190	\$0.0628	\$2.2723	\$2,2671	\$2.2723	\$2.2723	0	\$0
25	\$1.7200	2.54%	\$0.4190	\$0.0628	\$2.2466	\$1.7200	2.54%	\$0.4190	\$0.0628	\$2.2466	\$2.2466	\$2.2466	\$2.2466	0	\$0
26	\$1.7000	2.54%	\$0.4190	\$0.0628	\$2.2261	\$1.7000	2.54%	\$0.4190	\$0.0628	\$2.2261	\$2.2261	\$2.2261	\$2.2261	0	\$0
27	\$1.5950	2.54%	\$0.4190	\$0.0628	\$2.1184	\$1.5850	2.54%	\$0.4190	\$0.0628	\$2.1081	\$2.1184	\$2.1081	\$2.1184	0	\$0
28	\$1.5950	2.54%	\$0.4190	\$0.0628	\$2.1184	\$1.5850	2.54%	\$0.4190	\$0.0628	\$2.1081	\$2.1184	\$2.1081	\$2.1184	0	\$0
29	\$1.5950	2.54%	\$0.4190	\$0.0628	\$2.1184	\$1.5850	2.54%	\$0.4190	\$0.0628	\$2.1081	\$2.1184	\$2.1081	\$2.1184	0	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub March 2016

_		CALCULATI	ON OF DAI	LY DAI TGT ZONI	E 1		CALCULATI	ON OF DAI	LY DAI TGT ZONI	E 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY				
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
_	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	IGI-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$1.5050	2.54%	\$0.4190	\$0.0628	\$2.0260	\$1.5300	2.54%	\$0.4190	\$0.0628	\$2.0517	\$2.0260	\$2.0517	\$2.0517	0	\$0
2	\$1.5050	2.54%	\$0.4190	\$0.0628	\$2.0260	\$1.5500	2.54%	\$0.4190	\$0.0628	\$2.0722	\$2.0260	\$2.0722	\$2.0722	ō	\$0
3	\$1.5550	2.54%	\$0.4190	\$0.0628	\$2,0773	\$1.6150	2.54%	\$0.4190	\$0.0628	\$2,1389	\$2.0773	\$2.1389	\$2.1389	Ō	\$0
4	\$1.5150	2.54%	\$0.4190	\$0.0628	\$2.0363	\$1.5350	2.54%	\$0.4190	\$0.0628	\$2.0568	\$2.0363	\$2.0568	\$2.0568	0	\$0
5	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4250	2.54%	\$0.4190	\$0.0628	\$1.9439	\$1.9542	\$1.9439	\$1.9542	0	\$0
6	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4250	2.54%	\$0.4190	\$0.0628	\$1.9439	\$1.9542	\$1.9439	\$1.9542	0	\$0
7	\$1.4350	2.54%	\$0.4190	\$0.0628	\$1.9542	\$1.4250	2.54%	\$0.4190	\$0.0628	\$1.9439	\$1.9542	\$1.9439	\$1.9542	0	\$0
8	\$1.4450	2.54%	\$0.4190	\$0.0628	\$1,9645	\$1.4550	2.54%	\$0.4190	\$0.0628	\$1.9747	\$1.9645	\$1.9747	\$1.9747	0	\$0
9	\$1.4600	2.54%	\$0.4190	\$0.0628	\$1.9799	\$1.4650	2.54%	\$0.4190	\$0.0628	\$1.9850	\$1.9799	\$1.9850	\$1.9850	0	\$0
10	\$1.5150	2.54%	\$0.4190	\$0.0628	\$2.0363	\$1.5000	2.54%	\$0.4190	\$0.0628	\$2.0209	\$2.0363	\$2.0209	\$2.0363	0	\$0
11	\$1.6150	2.54%	\$0.4190	\$0.0628	\$2.1389	\$1.6150	2.54%	\$0.4190	\$0.0628	\$2.1389	\$2.1389	\$2.1389	\$2.1389	0	\$0
12	\$1.6500	2.54%	\$0.4190	\$0.0628	\$2.1748	\$1.6450	2.54%	\$0.4190	\$0.0628	\$2.1697	\$2.1748	\$2.1697	\$2.1748	0	\$0
13	\$1.6500	2.54%	\$0.4190	\$0.0628	\$2.1748	\$1.6450	2.54%	\$0.4190	\$0.0628	\$2.1697	\$2.1748	\$2.1697	\$2.1748	0	\$0
14	\$1.6500	2.54%	\$0.4190	\$0.0628	\$2,1748	\$1.6450	2.54%	\$0.4190	\$0.0628	\$2.1697	\$2.1748	\$2.1697	\$2.1748	0	\$0
15	\$1.6200	2.54%	\$0.4190	\$0.0628	\$2.1440	\$1.6200	2.54%	\$0.4190	\$0.0628	\$2.1440	\$2.1440	\$2.1440	\$2.1440	0	\$0
16	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$1.6950	2.54%	\$0.4190	\$0.0628	\$2.2210	\$2.2415	\$2.2210	\$2.2415	0	\$0
17	\$1.6850	2.54%	\$0.4190	\$0.0628	\$2.2107	\$1.6750	2.54%	\$0.4190	\$0.0628	\$2.2005	\$2.2107	\$2.2005	\$2.2107	0	\$0
18	\$1.7650	2.54%	\$0.4190	\$0.0628	\$2.2928	\$1.7800	2.54%	\$0.4190	\$0.0628	\$2.3082	\$2.2928	\$2.3082	\$2,3082	0	\$0
19	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.8150	2.54%	\$0.4190	\$0.0628	\$2.3441	\$2.3338	\$2.3441	\$2,3441	0	\$0
20	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.8150	2.54%	\$0.4190	\$0.0628	\$2.3441	\$2.3338	\$2.3441	\$2.3441	0	\$0
21	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.8150	2.54%	\$0.4190	\$0.0628	\$2.3441	\$2.3338	\$2,3441	\$2.3441	0	\$0
22	\$1.7200	2.54%	\$0.4190	\$0.0628	\$2.2466	\$1.7300	2.54%	\$0.4190	\$0.0628	\$2.2569	\$2.2466	\$2.2569	\$2.2569	0	\$0
23	\$1.7100	2.54%	\$0.4190	\$0.0628	\$2.2364	\$1.7200	2.54%	\$0.4190	\$0.0628	\$2.2466	\$2.2364	\$2.2466	\$2.2466	0	\$0
24	\$1.7500	2.54%	\$0.4190	\$0.0628	\$2.2774	\$1.7450	2.54%	\$0.4190	\$0.0628	\$2.2723	\$2.2774	\$2.2723	\$2.2774	0	\$0
25	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.1902	\$1.6750	2.54%	\$0.4190	\$0.0628	\$2.2005	\$2.1902	\$2.2005	\$2.2005	0	\$0
26	\$1.6650	2.54%	\$0.4190	\$0.0628	\$2.1902	\$1.6750	2.54%	\$0.4190	\$0.0628	\$2.2005	\$2.1902	\$2.2005	\$2.2005	0	\$0
27	\$1.6650	2.54%	\$0.4190	\$0.0628	\$2.1902	\$1.6750	2.54%	\$0.4190	\$0.0628	\$2.2005	\$2.1902	\$2.2005	\$2.2005	0	\$0
28	\$1.6650	2.54%	\$0.4190	\$0.0628	\$2.1902	\$1.6750	2.54%	\$0.4190	\$0.0628	\$2.2005	\$2.1902	\$2.2005	\$2.2005	0	\$0
29	\$1.6850	2.54%	\$0.4190	\$0.0628	\$2,2107	\$1.6850	2.54%	\$0.4190	\$0.0628	\$2.2107	\$2.2107	\$2.2107	\$2.2107	0	\$0
30	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$1.7100	2.54%	\$0.4190	\$0.0628	\$2.2364	\$2.2415	\$2.2364	\$2.2415	0	\$0
31	\$1.8000	2.54%	\$0.4190	\$0.0628	\$2.3287	\$1.7950	2.54%	\$0,4190	\$0.0628	\$2.3236	\$2.3287	\$2.3236	\$2.3287	0	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub April 2016

		CALCULATI	ON OF DAI	LY DAI TGT ZONI	E1		CALCULATI	ON OF DAIL	Y DAI TGT ZONE	∃ 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY				
	GAS DAILY	E			+ Cal. 3 + Cal. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR ZO		HIGHER OF		TOTAL
D	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	161-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2,4057	\$2.3851	\$2.4057	\$2.4057	0	\$0
2	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2,3338	\$1.8250	2.54%	\$0.4190	\$0.0628	\$2.3544	\$2.3338	\$2.3544	\$2.3544	0	\$0
3	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.8250	2.54%	\$0.4190	\$0.0628	\$2.3544	\$2.3338	\$2.3544	\$2.3544	0	\$0
4	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.8250	2.54%	\$0.4190	\$0.0628	\$2.3544	\$2.3338	\$2.3544	\$2.3544	0	\$0
5	\$1.8600	2.54%	\$0.4190	\$0.0628	\$2.3903	\$1.8500	2.54%	\$0.4190	\$0.0628	\$2.3800	\$2.3903	\$2.3800	\$2.3903	0	\$0
6	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$1.8350	2.54%	\$0.4190	\$0.0628	\$2.3646	\$2.3698	\$2.3646	\$2.3698	0	\$0
7	\$1.8200	2.54%	\$0.4190	\$0.0628	\$2.3492	\$1.8150	2.54%	\$0.4190	\$0.0628	\$2.3441	\$2.3492	\$2.3441	\$2.3492	0	\$0
8	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$1.8700	2.54%	\$0.4190	\$0.0628	\$2.4005	\$2.3954	\$2.4005	\$2.4005	Ō	\$0
9	\$1.8850	2.54%	\$0.4190	\$0.0628	\$2.4159	\$1.8600	2.54%	\$0.4190	\$0.0628	\$2.3903	\$2.4159	\$2.3903	\$2.4159	0	\$0
10	\$1.8850	2.54%	\$0.4190	\$0.0628	\$2.4159	\$1.8600	2.54%	\$0.4190	\$0.0628	\$2.3903	\$2.4159	\$2.3903	\$2.4159	0	\$0
11	\$1.8850	2.54%	\$0.4190	\$0.0628	\$2,4159	\$1.8600	2.54%	\$0.4190	\$0.0628	\$2.3903	\$2.4159	\$2.3903	\$2.4159	0	\$0
12	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.8200	2.54%	\$0.4190	\$0.0628	\$2.3492	\$2.3338	\$2.3492	\$2.3492	ō	\$0
13	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$2.3954	\$2.3954	\$2.3954	0	\$0
14	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2,4159	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$2.4159	\$2.3954	\$2.4159	0	\$0
15	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$1.7750	2.54%	\$0,4190	\$0.0628	\$2.3031	\$2.3338	\$2.3031	\$2.3338	0	\$0
16	\$1.6150	2.54%	\$0.4190	\$0.0628	\$2.1389	\$1.6050	2.54%	\$0.4190	\$0.0628	\$2.1286	\$2.1389	\$2.1286	\$2.1389	0	\$0
17	\$1.6150	2,54%	\$0.4190	\$0.0628	\$2.1389	\$1.6050	2.54%	\$0.4190	\$0.0628	\$2.1286	\$2.1389	\$2.1286	\$2.1389	0	\$0
18	\$1.6150	2.54%	\$0.4190	\$0.0628	\$2.1389	\$1.6050	2.54%	\$0.4190	\$0.0628	\$2.1286	\$2.1389	\$2.1286	\$2.1389	0	\$0
19	\$1.6650	2.54%	\$0.4190	\$0.0628	\$2.1902	\$1.6500	2.54%	\$0,4190	\$0.0628	\$2.1748	\$2.1902	\$2.1748	\$2.1902	0	\$0
20	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$2.3698	\$2.3851	\$2.3851	0	\$0
21	\$1.8950	2.54%	\$0.4190	\$0.0628	\$2.4262	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2.4518	\$2.4262	\$2.4518	\$2.4518	0	\$0
22	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2.4057	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2.4057	\$2.4057	\$2.4057	\$2.4057	0	\$0
23	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8350	2.54%	\$0.4190	\$0.0628	\$2.3646	\$2.3851	\$2.3646	\$2.3851	0	\$0
24	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8350	2.54%	\$0.4190	\$0.0628	\$2.3646	\$2.3851	\$2.3646	\$2.3851	0	\$0
25	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8350	2.54%	\$0.4190	\$0.0628	\$2.3646	\$2.3851	\$2.3646	\$2.3851	0	\$0
26	\$1.8900	2.54%	\$0.4190	\$0.0628	\$2.4211	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2,4057	\$2.4211	\$2.4057	\$2.4211	0	\$0
27	\$1.8300	2.54%	\$0.4190	\$0.0628	\$2.3595	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$2.3595	\$2.3698	\$2,3698	ō	\$0
28	\$1.8700	2.54%	\$0.4190	\$0.0628	\$2,4005	\$1.8450	2.54%	\$0.4190	\$0.0628	\$2.3749	\$2.4005	\$2.3749	\$2.4005	0	\$0
29	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8500	2.54%	\$0.4190	\$0.0628	\$2.3800	\$2.3851	\$2.3800	\$2.3851	ō	\$0
30	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.8500	2.54%	\$0.4190	\$0.0628	\$2.3800	\$2.3851	\$2.3800	\$2.3851	Ō	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub May 2016

		CALCULATI	ON OF DAI	LY DAI TGT ZONI	1		CALCULATI	ON OF DAI	LY DAI TGT ZONE	≣ 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY				
	GAS DAILY	FUEL			+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	161-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$1.8250	2.54%	\$0.4190	\$0.0628	\$2.3544	\$1.8500	2.54%	\$0.4190	\$0.0628	\$2.3800	\$2.3544	\$2.3800	\$2.3800	0	¢n.
2	\$1.8250	2.54%	\$0.4190	\$0.0628	\$2.3544	\$1.8500	2.54%	\$0.4190	\$0.0628	\$2.3800	\$2.3544	\$2.3800	\$2.3800	0	\$0 \$0
3	\$1.8250	2.54%	\$0.4190	\$0.0628	\$2.3544	\$1.8450	2.54%	\$0.4190	\$0.0628	\$2.3749	\$2.3544	\$2.3749	\$2.3749	0	\$0
4	\$1.8550	2.54%	\$0.4190	\$0.0628	\$2.3851	\$1.9150	2.54%	\$0,4190	\$0.0628	\$2.4467	\$2.3851	\$2.4467	\$2.4467	0	\$0
5	\$1.9400	2.54%	\$0.4190	\$0.0628	\$2,4724	\$1.9700	2.54%	\$0.4190	\$0.0628	\$2.5031	\$2.4724	\$2.5031	\$2.5031	0	\$0
6	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2.4518	\$1.9100	2.54%	\$0.4190	\$0.0628	\$2,4416	\$2.4518	\$2.4416	\$2.4518	n	\$0
7	\$1.7500	2.54%	\$0.4190	\$0.0628	\$2.2774	\$1.7750	2.54%	\$0.4190	\$0.0628	\$2.3031	\$2.2774	\$2.3031	\$2,3031	0	\$0
8	\$1.7500	2.54%	\$0.4190	\$0.0628	\$2.2774	\$1.7750	2.54%	\$0.4190	\$0.0628	\$2.3031	\$2.2774	\$2.3031	\$2.3031	ñ	\$0
9	\$1.7500	2.54%	\$0.4190	\$0.0628	\$2.2774	\$1.7750	2.54%	\$0.4190	\$0.0628	\$2,3031	\$2.2774	\$2.3031	\$2.3031	Õ	\$0
10	\$1.8900	2.54%	\$0.4190	\$0.0628	\$2,4211	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$2.4211	\$0.4818	\$2.4211	ñ	\$0
11	\$1.9350	2.54%	\$0.4190	\$0.0628	\$2.4672	\$1.9750	2.54%	\$0.4190	\$0.0628	\$2.5083	\$2.4672	\$2.5083	\$2.5083	o o	\$0
12	\$1.9300	2.54%	\$0.4190	\$0.0628	\$2.4621	\$1.9400	2.54%	\$0.4190	\$0.0628	\$2.4724	\$2.4621	\$2,4724	\$2,4724	Ď	\$0
13	\$1.9200	2.54%	\$0.4190	\$0.0628	\$2,4518	\$1.9800	2.54%	\$0.4190	\$0.0628	\$2.5134	\$2.4518	\$2.5134	\$2.5134	Ö	\$0
14	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2,4057	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$2.4057	\$2.3954	\$2.4057	Ö	\$0
15	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2,4057	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$2.4057	\$2.3954	\$2.4057	0	\$0
16	\$1.8750	2.54%	\$0.4190	\$0.0628	\$2.4057	\$1.8650	2.54%	\$0.4190	\$0.0628	\$2.3954	\$2.4057	\$2.3954	\$2.4057	0	\$0
17	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$1.8500	2.54%	\$0.4190	\$0.0628	\$2.3800	\$2.3698	\$2.3800	\$2.3800	0	\$0
18	\$1.8900	2.54%	\$0.4190	\$0.0628	\$2.4211	\$1.8950	2.54%	\$0.4190	\$0.0628	\$2.4262	\$2.4211	\$2.4262	\$2.4262	0	\$0
19	\$1.8100	2.54%	\$0.4190	\$0.0628	\$2.3390	\$1.8050	2.54%	\$0.4190	\$0.0628	\$2.3338	\$2.3390	\$2.3338	\$2.3390	0	\$0
20	\$1.6950	2.54%	\$0.4190	\$0.0628	\$2.2210	\$1.7100	2.54%	\$0.4190	\$0.0628	\$2.2364	\$2.2210	\$2.2364	\$2.2364	0	\$0
21	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$1.7250	2.54%	\$0.4190	\$0.0628	\$2.2518	\$2.2415	\$2.2518	\$2.2518	0	\$0
22	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$1.7250	2.54%	\$0.4190	\$0.0628	\$2.2518	\$2.2415	\$2.2518	\$2.2518	0	\$0
23	\$1.7150	2.54%	\$0.4190	\$0.0628	\$2.2415	\$1.7250	2.54%	\$0.4190	\$0.0628	\$2.2518	\$2.2415	\$2.2518	\$2.2518	0	\$0
24	\$1.8850	2.54%	\$0.4190	\$0.0628	\$2.4159	\$1.8850	2.54%	\$0.4190	\$0.0628	\$2.4159	\$2.4159	\$2.4159	\$2.4159	0	\$0
25	\$1.8100	2.54%	\$0.4190	\$0.0628	\$2,3390	\$1.8150	2.54%	\$0.4190	\$0.0628	\$2.3441	\$2.3390	\$2.3441	\$2.3441	0	\$0
26	\$1.7100	2.54%	\$0.4190	\$0.0628	\$2.2364	\$1.7250	2.54%	\$0.4190	\$0.0628	\$2.2518	\$2.2364	\$2.2518	\$2.2518	0	\$0
27	\$1.7050	2.54%	\$0.4190	\$0.0628	\$2.2312	\$1.7550	2.54%	\$0.4190	\$0.0628	\$2.2825	\$2.2312	\$2.2825	\$2.2825	0	\$0
28	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2,3698	\$1.7950	2.54%	\$0.4190	\$0.0628	\$2.3236	\$2.3698	\$2.3236	\$2.3698	0	\$0
29	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$1.7950	2.54%	\$0.4190	\$0.0628	\$2.3236	\$2.3698	\$2.3236	\$2,3698	0	\$0
30	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$1.7950	2.54%	\$0.4190	\$0.0628	\$2.3236	\$2.3698	\$2.3236	\$2.3698	0	\$0
31	\$1.8400	2.54%	\$0.4190	\$0.0628	\$2.3698	\$1.7950	2.54%	\$0 .4190	\$0.0628	\$2.3236	\$2.3698	\$2.3236	\$2.3698	0	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub June 2016

_		CALCULATI	ON OF DAI	LY DAI TGT ZON	E 1	_	CALCULATI	ON OF DAIL	Y DAI TGT ZONE	≣ 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY				• ,
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY	_			+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
D	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	161-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.0400	2.54%	\$0.4190	\$0.0628	\$2.5750	\$2.0400	2.54%	\$0.4190	\$0.0628	\$2.5750	\$2.5750	\$2.5750	\$2.5750	0	\$0
2	\$2.2150	2.54%	\$0.4190	\$0.0628	\$2.7545	\$2.2050	2.54%	\$0.4190	\$0.0628	\$2.7443	\$2.7545	\$2.7443	\$2.7545	0	\$0
3	\$2.2150	2,54%	\$0.4190	\$0.0628	\$2,7545	\$2.1900	2.54%	\$0.4190	\$0.0628	\$2.7289	\$2.7545	\$2.7289	\$2.7545	0	\$0
4	\$2.1750	2.54%	\$0.4190	\$0.0628	\$2.7135	\$2.1700	2.54%	\$0.4190	\$0.0628	\$2.7084	\$2.7135	\$2.7084	\$2.7135	0	\$0
5	\$2.1750	2.54%	\$0.4190	\$0.0628	\$2,7135	\$2.1700	2.54%	\$0.4190	\$0.0628	\$2.7084	\$2.7135	\$2.7084	\$2.7135	0	\$0
6	\$2.1750	2.54%	\$0.4190	\$0.0628	\$2.7135	\$2.1700	2.54%	\$0.4190	\$0.0628	\$2.7084	\$2.7135	\$2.7084	\$2.7135	Ō	\$0
7	\$2.2000	2.54%	\$0.4190	\$0.0628	\$2.7391	\$2.1950	2.54%	\$0.4190	\$0.0628	\$2.7340	\$2.7391	\$2.7340	\$2.7391	0	\$0
8	\$2.2050	2.54%	\$0.4190	\$0.0628	\$2.7443	\$2.2000	2.54%	\$0.4190	\$0.0628	\$2.7391	\$2.7443	\$2.7391	\$2.7443	0	\$0
9	\$2.2600	2.54%	\$0.4190	\$0.0628	\$2.8007	\$2.2350	2.54%	\$0.4190	\$0.0628	\$2.7750	\$2.8007	\$2.7750	\$2.8007	Ō	\$0
10	\$2.2450	2.54%	\$0.4190	\$0.0628	\$2.7853	\$2.2200	2.54%	\$0.4190	\$0.0628	\$2.7597	\$2.7853	\$2.7597	\$2.7853	0	\$0
11	\$2.3600	2.54%	\$0.4190	\$0.0628	\$2.9033	\$2.3200	2.54%	\$0.4190	\$0.0628	\$2.6623	\$2.9033	\$2.8623	\$2.9033	0	\$0
12	\$2.3600	2.54%	\$0.4190	\$0.0628	\$2.9033	\$2.3200	2.54%	\$0.4190	\$0.0628	\$2,8623	\$2.9033	\$2.8623	\$2.9033	Ō	\$0
13	\$2.3600	2.54%	\$0.4190	\$0.0628	\$2.9033	\$2.3200	2.54%	\$0.4190	\$0.0628	\$2.6623	\$2.9033	\$2.8623	\$2.9033	0	\$0
14	\$2.4550	2.54%	\$0.4190	\$0.0628	\$3.0008	\$2.4400	2.54%	\$0.4190	\$0.0628	\$2.9854	\$3.0008	\$2.9854	\$3.0008	0	\$0
15	\$2.4900	2.54%	\$0.4190	\$0.0628	\$3.0367	\$2.4400	2.54%	\$0.4190	\$0.0628	\$2.9854	\$3.0367	\$2.9854	\$3.0367	0	\$0
16	\$2.5450	2.54%	\$0.4190	\$0.0628	\$3.0931	\$2.5250	2.54%	\$0.4190	\$0.0628	\$3.0726	\$3.0931	\$3.0726	\$3.0931	0	\$0
17	\$2.5050	2.54%	\$0.4190	\$0.0628	\$3.0521	\$2.4700	2.54%	\$0.4190	\$0.0628	\$3.0162	\$3.0521	\$3.0162	\$3.0521	0	\$0
18	\$2.5050	2.54%	\$0.4190	\$0.0628	\$3.0521	\$2.5150	2.54%	\$0.4190	\$0.0628	\$3.0623	\$3.0521	\$3.0623	\$3.0623	0	\$0
19	\$2.5050	2.54%	\$0.4190	\$0.0628	\$3.0521	\$2,5150	2.54%	\$0.4190	\$0.0628	\$3.0623	\$3.0521	\$3.0623	\$3.0623	0	\$0
20	\$2.5050	2.54%	\$0.4190	\$0.0628	\$3.0521	\$2.5150	2.54%	\$0.4190	\$0.0628	\$3.0623	\$3.0521	\$3.0623	\$3.0623	0	\$0
21	\$2.6350	2.54%	\$0.4190	\$0.0628	\$3.1855	\$2.6400	2.54%	\$0.4190	\$0.0628	\$3.1906	\$3.1855	\$3.1906	\$3,1906	0	\$0
22	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470	\$2.6700	2.54%	\$0.4190	\$0.0628	\$3.2214	\$3.2470	\$3.2214	\$3.2470	0	\$0
23	\$2.7000	2.54%	\$0.4190	\$0.0628	\$3.2522	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3,2470	\$3.2522	\$3.2470	\$3.2522	0	\$0
24	\$2.5950	2.54%	\$0.4190	\$0.0628	\$3.1444	\$2.5900	2.54%	\$0.4190	\$0.0628	\$3.1393	\$3.1444	\$3.1393	\$3.1444	0	\$0
25	\$2.5950	2.54%	\$0.4190	\$0.0628	\$3.1444	\$2.5850	2.54%	\$0.4190	\$0.0628	\$3.1342	\$3.1444	\$3.1342	\$3.1444	0	\$0
26	\$2.5950	2.54%	\$0.4190	\$0.0628	\$3,1444	\$2.5850	2.54%	\$0.4190	\$0.0628	\$3.1342	\$3.1444	\$3.1342	\$3.1444	0	\$0
27	\$2.5950	2.54%	\$0.4190	\$0.0628	\$3.1444	\$2.5850	2.54%	\$0.4190	\$0.0628	\$3,1342	\$3.1444	\$3.1342	\$3.1444	0	\$0
28	\$2.6400	2.54%	\$0.4190	\$0.0628	\$3,1906	\$2.6800	2.54%	\$0.4190	\$0.0628	\$3.2316	\$3.1906	\$3.2316	\$3.2316	0	\$0
29	\$2.7600	2.54%	\$0.4190	\$0.0628	\$3.3137	\$2.7700	2.54%	\$0.4190	\$0.0628	\$3.3240	\$3.3137	\$3.3240	\$3.3240	0	\$0
30	\$2.8300	2.54%	\$0.4190	\$0.0628	\$3.3856	\$2.8250	2.54%	\$0.4190	\$0.0628	\$3.3804	\$3.3856	\$3.3804	\$3.3656	0	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub July 2016

_		CALCULATI	ON OF DAI	LY DAI TGT ZONI	E 1		CALCULATI	ON OF DAIL	Y DAI TGT ZONI	E 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY	'DAI		. ,	,
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z	ONES_	HIGHER OF		TOTAL
_	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	TGT-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.7750	2.54%	\$0.4190	\$0.0628	\$3.3291	\$2,7700	2.54%	\$0.4190	\$0.0628	\$3.3240	#2 2224	00.0040	***		
2	\$2.7400	2.54%	\$0.4190	\$0.0628	\$3.2932	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470 \$3.2470	\$3.3291 \$3.2932	\$3.3240 \$3.2470	\$3.3291	0	\$0
3	\$2.7400	2.54%	\$0.4190	\$0.0628	\$3.2932	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470 \$3.2470	\$3.2932 \$3.2932	\$3.2470 \$3.2470	\$3.2932 \$3.2932	0	\$0
4	\$2.7400	2.54%	\$0.4190	\$0.0628	\$3.2932	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470	\$3.2932	\$3.2470 \$3.2470	\$3.2932 \$3.2932	0	\$0
5	\$2.7400	2.54%	\$0.4190	\$0.0628	\$3.2932	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470	\$3.2932	\$3.2470	\$3.2932 \$3.2932	0	\$0
6	\$2.6800	2.54%	\$0.4190	\$0.0628	\$3.2316	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470	\$3.2316	\$3.2470	\$3.2470	0	\$0
7	\$2.6550	2.54%	\$0.4190	\$0.0628	\$3.2060	\$2.6250	2.54%	\$0.4190	\$0.0628	\$3.1752	\$3.2060	\$3.1752	\$3.2060	0	\$0
8	\$2,7350	2.54%	\$0.4190	\$0.0628	\$3.2881	\$2,7300	2.54%	\$0.4190	\$0.0628	\$3.2829	\$3.2881	\$3.2829	\$3.2881	0	\$0
9	\$2.6650	2.54%	\$0.4190	\$0.0628	\$3.2163	\$2.6300	2.54%	\$0.4190	\$0.0628	\$3.1803	\$3.2163	\$3.1803	\$3.2163	0	\$0
10	\$2.6650	2.54%	\$0.4190	\$0.0628	\$3.2163	\$2.6300	2.54%	\$0.4190	\$0.0628	\$3.1803	\$3.2163	\$3.1803	\$3.2163	0	\$0
11	\$2.6650	2.54%	\$0.4190	\$0.0628	\$3.2163	\$2.6300	2.54%	\$0.4190	\$0.0628	\$3.1803	\$3.2163	\$3.1803	\$3.2163	0	\$0
12	\$2.7250	2.54%	\$0.4190	\$0.0628	\$3.2778	\$2.7350	2.54%	\$0.4190	\$0.0628	\$3.2881	\$3.2778	\$3.2881	\$3.2881	0	\$0
13	\$2.6550	2.54%	\$0.4190	\$0.0628	\$3.2060	\$2.6500	2.54%	\$0.4190	\$0.0628	\$3.2009	\$3.2060	\$3.2009	\$3.2060	0	\$0
14	\$2.7050	2.54%	\$0.4190	\$0.0628	\$3.2573	\$2,7150	2.54%	\$0.4190	\$0.0628	\$3,2676	\$3.2573	\$3.2676	\$3.2676	0	\$0
15	\$2,6700	2.54%	\$0,4190	\$0.0628	\$3.2214	\$2.6800	2.54%	\$0.4190	\$0.0628	\$3.2316	\$3.2214	\$3.2316	\$3.2316	0	\$0 \$0
16	\$2.5850	2.54%	\$0.4190	\$0.0628	\$3.1342	\$2.5650	2.54%	\$0.4190	\$0.0628	\$3.1136	\$3.1342	\$3.1136	\$3.1342	0	
17	\$2.5850	2.54%	\$0.4190	\$0.0628	\$3.1342	\$2.5650	2.54%	\$0.4190	\$0.0628	\$3.1136	\$3,1342	\$3.1136	\$3.1342	0	\$0 \$0
18	\$2.5850	2.54%	\$0,4190	\$0.0628	\$3.1342	\$2.5650	2.54%	\$0.4190	\$0.0628	\$3.1136	\$3.1342	\$3.1136	\$3.1342	0	\$0 \$0
19	\$2.7300	2.54%	\$0.4190	\$0.0628	\$3.2829	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.2829	\$0.4818	\$3.2829	0	\$0 \$0
20	\$2.7450	2.54%	\$0.4190	\$0.0628	\$3.2983	\$0,0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.2983	\$0.4818	\$3.2983	0	\$0 \$0
21	\$2.6700	2.54%	\$0.4190	\$0.0628	\$3.2214	\$0.0000	2.54%	\$0,4190	\$0.0628	\$0.4818	\$3.2214	\$0.4818	\$3.2214	0	\$0
22	\$2.6500	2.54%	\$0.4190	\$0.0628	\$3.2009	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.2009	\$0.4818	\$3.2009	0	\$0
23	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.2727	\$0.4818	\$3,2727	0	\$0
24	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.2727	\$0.4818	\$3.2727	ñ	\$0
25	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.2727	\$0.4818	\$3.2727	n n	\$0
26	\$2.7300	2.54%	\$0.4190	\$0.0628	\$3.2829	\$2.7300	2.54%	\$0.4190	\$0.0628	\$3,2829	\$3.2829	\$3.2829	\$3.2829	ñ	\$0
27	\$2.6600	2.54%	\$0.4190	\$0.0628	\$3.2111	\$2.6450	2.54%	\$0.4190	\$0.0628	\$3.1957	\$3.2111	\$3.1957	\$3.2111	n n	\$0
28	\$2.6900	2.54%	\$0.4190	\$0.0628	\$3.2419	\$2.6950	2.54%	\$0.4190	\$0.0628	\$3.2470	\$3.2419	\$3,2470	\$3.2470	0	\$0
29	\$2.6750	2.54%	\$0.4190	\$0.0628	\$3.2265	\$2.6500	2.54%	\$0.4190	\$0.0628	\$3.2009	\$3.2265	\$3.2009	\$3.2265	ő	\$0
30	\$2.6750	2.54%	\$0.4190	\$0.0628	\$3.2265	\$2.6500	2.54%	\$0.4190	\$0.0628	\$3.2009	\$3.2265	\$3.2009	\$3.2265	0	\$0
31	\$2.6750	2.54%	\$0.4190	\$0.0628	\$3.2265	\$2.6500	2.54%	\$0.4190	\$0.0628	\$3.2009	\$3.2265	\$3.2009	\$3.2265	Ö	\$0
															,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub August 2016

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (15) (15) (15) (15) (15) (15) (15	
PLATIS GAS DAILY +Col. 3 + Col. 4 GAS DAILY +Col. 4 GAS DAILY +Col. 8 + Col. 9 FOR ZONES DAILY DAI DAILY DA	(15)
MIDPOINT FUEL NNS NNS DAILY DAI TGT-1 TGT-2 ONE 4 RETENTION DEMAND COMMODITY TGT-4 TGT-1 TGT-4 OR COLUMN 12 PEFDCO	()
Day TGT-1 RETENTION DEMAND COMMODITY TGT-1 TGT-2 ONE 4 RETENTION DEMAND COMMODITY TGT-4 TGT-1 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-1 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-1 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-4 OR COLUMN 12 DEMAND COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-4 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT-4 TGT-4 TGT-4 OR COLUMN 12 DEMAND COMMODITY TGT-4 TGT	TOTAL
1 \$2.8150	DOLLARS
2 \$2.7900 2.54% \$0.4190 \$0.0628 \$3.3445 \$2.7900 2.54% \$0.4190 \$0.0628 \$3.3445 \$3.3548	Col. 13 x Col. 14
2 \$2.7900 2.54% \$0.4190 \$0.0628 \$3.3445 \$2.7900 2.54% \$0.4190 \$0.0628 \$3.3445 \$3.3548	-
3 \$2.6900 2.54% \$0.4190 \$0.0628 \$3.2419 \$2.6950 2.54% \$0.4190 \$0.0628 \$3.2470	\$0
4 \$2.7800 2.54% \$0.4190 \$0.0628 \$3.3343 \$2.7650 2.54% \$0.4190 \$0.0628 \$3.3189 \$3.3343 \$3.3189 \$3.3343 \$0.0628 \$3.27900 2.54% \$0.4190 \$0.0628 \$3.3445 \$2.8000 2.54% \$0.4190 \$0.0628 \$3.3548 \$3.	\$0
5 \$2.7900 2.54% \$0.4190 \$0.0628 \$3.3445 \$2.8000 2.54% \$0.4190 \$0.0628 \$3.3548 \$3.3545 \$3.3548 \$3.2829 \$3.2881 \$3.2829	\$0
6 \$2.7350 2.54% \$0.4190 \$0.0628 \$3.2881 \$2.7300 2.54% \$0.4190 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$3.2829	\$0 ***
7 \$2.7350 2.54% \$0.4190 \$0.0628 \$3.2881 \$2.7300 2.54% \$0.4190 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$3.2829 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$3.2829	\$0
8 \$2.7350 2.54% \$0.4190 \$0.0628 \$3.2881 \$2.7300 2.54% \$0.4190 \$0.0628 \$3.2829 \$3.2829 \$3.2829 \$3.2881 \$0.0628 \$0.4190 \$0.0628	\$0
9 \$2.7000 2.54% \$0.4190 \$0.0628 \$3.2522 \$2.7000 2.54% \$0.4190 \$0.0628 \$3.2522 \$3.2522 \$3.2522 \$3.2522 \$0.000 \$2.54% \$0.4190 \$0.0628 \$3.25111 \$3.2009 \$3.2111 \$3.2111 \$0.0000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.000000 \$0.00000 \$0.000000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.000000 \$0.000000 \$0.00000 \$0.00000 \$0.000000 \$0.000000 \$0.000000 \$0.00000 \$0.00000 \$	\$0 \$0
10 \$2.6500 2.54% \$0.4190 \$0.0628 \$3.2009 \$2.6600 2.54% \$0.4190 \$0.0628 \$3.2111 \$3.2009 \$3.2111 \$3.2111 0 \$0.0628 \$3.2111 \$3.2009 \$3.2111 \$3.2111 0 \$0.0628 \$3.2111 \$3.2009 \$3.2111 \$3.2111 0 \$0.0628 \$3.1803 \$	\$0 \$0
11 \$2.6100 2.54% \$0.4190 \$0.0628 \$3.1598 \$2.6300 2.54% \$0.4190 \$0.0628 \$3.1803	\$0 \$0
12 \$2.5550 2.54% \$0.4190 \$0.0628 \$3.1034 \$2.5550 2.54% \$0.4190 \$0.0628 \$3.1034 \$3.1034 \$3.1034 \$3.1034 13 \$2.5850 2.54% \$0.4190 \$0.0628 \$3.1701 \$3.1701 \$3.1701 \$3.1701	\$0 \$0
13 \$2.5850 2.54% \$0.4190 \$0.0628 \$3.1342 \$2.6200 2.54% \$0.4190 \$0.0628 \$3.1701 \$3.1701 \$3.1701 \$3.1701	\$0 \$0
	\$0
	\$0 \$0
15 \$2.5850 2.54% \$0.4190 \$0.0628 \$3.1342 \$2.6200 2.54% \$0.4190 \$0.0628 \$3.1701 \$3.1342 \$3.1701 \$3.1701	\$0 \$0
16 \$2.6150 2.54% \$0.4190 \$0.0628 \$3.1850 \$2.6300 2.54% \$0.4190 \$0.0628 \$3.1803 \$3.1803 \$3.1803 \$3.1803	\$0
17 \$2.5950 2.54% \$0.4190 \$0.0628 \$3.1444 \$2.5900 2.54% \$0.4190 \$0.0628 \$3.1393 \$3.1444 \$3.1393 \$3.1444	\$0
18 \$2.6000 2.54% \$0.4190 \$0.0628 \$3.1496 \$2.6100 2.54% \$0.4190 \$0.0628 \$3.1598 \$3.1598 \$3.1598 \$3.1598	\$0
19 \$2.5900 2.54% \$0.4190 \$0.0628 \$3.1393 \$2.5900 2.54% \$0.4190 \$0.0628 \$3.1393 \$3.1393 \$3.1393 \$3.1393	\$0 \$0
20 \$2.5550 2.54% \$0.4190 \$0.0628 \$3.1034 \$2.5500 2.54% \$0.4190 \$0.0628 \$3.0983 \$3.1034 \$3.0983 \$3.1034	\$0
21 \$2.5550 2.54% \$0.4190 \$0.0628 \$3.1034 \$2.5500 2.54% \$0.4190 \$0.0628 \$3.0983 \$3.1034 \$3.0983 \$3.1034	\$0
22 \$2.5550 2.54% \$0.4190 \$0.0628 \$3.1034 \$2.5500 2.54% \$0.4190 \$0.0628 \$3.0983 \$3.1034 \$3.0983 \$3.1034	\$0
23 \$2.6300 2.54% \$0.4190 \$0.0628 \$3.1803 \$2.6100 2.54% \$0.4190 \$0.0628 \$3.1598 \$3.1598 \$3.1598 \$3.1598	\$0
24 \$2.6200 2.54% \$0.4190 \$0.0628 \$3.1701 \$2.6300 2.54% \$0.4190 \$0.0628 \$3.1803 \$3.1701 \$3.1803 \$3.1803	\$0
25 \$2.7150 2.54% \$0.4190 \$0.0628 \$3.2676 \$2.7200 2.54% \$0.4190 \$0.0628 \$3.2727 \$3.2676 \$3.2727 \$3.2727 0	\$0
26 \$2.7550 2.54% \$0.4190 \$0.0628 \$3.3086 \$2.7700 2.54% \$0.4190 \$0.0628 \$3.3240 \$3.3086 \$3.3240 \$3.3240	\$0
27 \$2.7850 2.54% \$0.4190 \$0.0628 \$3.3394 \$2.7550 2.54% \$0.4190 \$0.0628 \$3.3086 \$3.3394 \$3.3086 \$3.3394 0	\$0
28 \$2.7850 2.54% \$0.4190 \$0.0628 \$3.3394 \$2.7550 2.54% \$0.4190 \$0.0628 \$3.3086 \$3.3394 \$3.3086 \$3.3394 0	\$0
29 \$2.7850 2.54% \$0.4190 \$0.0628 \$3.3394 \$2.7550 2.54% \$0.4190 \$0.0628 \$3.3086 \$3.3394 \$3.3086 \$3.3394 0	\$0
30 \$2.8600 2.54% \$0.4190 \$0.0628 \$3.4163 \$2.9100 2.54% \$0.4190 \$0.0628 \$3.4676 \$3.4163 \$3.4676 \$3.4676	\$0
31 \$2.8700 2.54% \$0.4190 \$0.0628 \$3.4266 \$2.8900 2.54% \$0.4190 \$0.0628 \$3.4471 \$3.4266 \$3.4471 \$3.4471 0	\$0
	**
O	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub September 2016

		CALCULATI		LY DAI TGT ZONI	E1		CALCULATI	ON OF DAIL	Y DAI TGT ZONE	E 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY				
	GAS DAILY MIDPOINT	FUEL	NNS	NNS	+ Col. 3 + Col. 4	GAS DAILY	=11=1			+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
Day		RETENTION		COMMODITY	DAILY DAI	MIDPOINT TGT - ZONE 4	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	101-1	RETENTION	DEMINIO	COMMODITY	161-1	1G1 - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.8150	2.54%	\$0.4190	\$0.0628	\$3.3702	\$2.8400	2.54%	\$0.4190	\$0.0628	\$3.3958	\$3.3702	\$3.3958	\$3.3958	0	\$0
2	\$2.7950	2.54%	\$0.4190	\$0.0628	\$3.3496	\$2.8100	2.54%	\$0.4190	\$0.0628	\$3.3650	\$3.3496	\$3.3650	\$3.3650	0	\$0
3	\$2.7450	2.54%	\$0.4190	\$0.0628	\$3.2983	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$3.2983	\$3.2727	\$3.2983	0	\$0
4	\$2.7450	2.54%	\$0.4190	\$0.0628	\$3.2983	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$3.2983	\$3.2727	\$3.2983	0	\$0
5	\$2.7450	2.54%	\$0.4190	\$0.0628	\$3.2983	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$3.2983	\$3.2727	\$3.2983	0	\$0
6	\$2.7450	2.54%	\$0.4190	\$0.0628	\$3,2983	\$2.7200	2.54%	\$0.4190	\$0.0628	\$3.2727	\$3.2983	\$3.2727	\$3.2983	0	\$0
7	\$2.7400	2.54%	\$0.4190	\$0.0628	\$3.2932	\$2.7550	2.54%	\$0.4190	\$0.0628	\$3.3086	\$3.2932	\$3.3086	\$3.3086	0	\$0
8	\$2.7450	2.54%	\$0.4190	\$0.0628	\$3.2983	\$2.7600	2.54%	\$0.4190	\$0.0628	\$3.3137	\$3.2983	\$3.3137	\$3.3137	0	\$0
9	\$2.7600	2.54%	\$0.4190	\$0.0628	\$3.3137	\$2.7700	2.54%	\$0.4190	\$0.0628	\$3.3240	\$3.3137	\$3.3240	\$3.3240	0	\$0
10	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$3.3753	\$3.3753	\$3.3753	0	\$0
11	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$3.3753	\$3.3753	\$3.3753	0	\$0
12	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$3.3753	\$3.3753	\$3.3753	0	\$0
13	\$2.8900	2.54%	\$0.4190	\$0.0628	\$3.4471	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.4471	\$0.4818	\$3.4471	0	\$0
14	\$2.9650	2.54%	\$0.4190	\$0.0628	\$3.5241	\$2.9550	2.54%	\$0.4190	\$0.0628	\$3.5138	\$3.5241	\$3.5138	\$3.5241	0	\$0
15	\$2.9300	2.54%	\$0.4190	\$0.0628	\$3.4882	\$2.9100	2.54%	\$0.4190	\$0.0628	\$3.4676	\$3.4882	\$3.4676	\$3.4882	0	\$0
16	\$2.8300	2.54%	\$0.4190	\$0.0628	\$3.3856	\$2.8350	2.54%	\$0.4190	\$0.0628	\$3.3907	\$3.3856	\$3.3907	\$3.3907	0	\$0
17	\$2.8400	2.54%	\$0.4190	\$0.0628	\$3.3958	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.3958	\$0.4818	\$3.3958	0	\$0
18	\$2.8400	2.54%	\$0.4190	\$0.0628	\$3.3958	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.3958	\$0.4818	\$3.3958	0	\$0
19	\$2.8400	2.54%	\$0.4190	\$0.0628	\$3.3958	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.3958	\$0.4818	\$3.3958	0	\$0
20	\$2.9300	2.54%	\$0.4190	\$0.0628	\$3.4882	\$2.9300	2.54%	\$0.4190	\$0.0628	\$3.4882	\$3.4882	\$3,4882	\$3.4882	0	\$0
21	\$3.0300	2.54%	\$0.4190	\$0.0628	\$3.5908	\$3.0550	2.54%	\$0.4190	\$0.0628	\$3.6164	\$3.5908	\$3.6164	\$3.6164	0	\$0
22	\$3.1000	2.54%	\$0.4190	\$0.0628	\$3.6626	\$3.1050	2.54%	\$0.4190	\$0.0628	\$3.6677	\$3.6626	\$3.6677	\$3.6677	0	\$0
23	\$3.0650	2.54%	\$0.4190	\$0.0628	\$3.6267	\$0.0000	2.54%	\$0.4190	\$0.0628	\$0.4818	\$3.6267	\$0.4818	\$3.6267	0	\$0
24	\$2.9550	2.54%	\$0.4190	\$0.0628	\$3.5138	\$2.9450	2.54%	\$0.4190	\$0.0628	\$3.5036	\$3.5138	\$3.5036	\$3.5138	0	\$0
25	\$2.9550	2.54%	\$0.4190	\$0.0628	\$3.5138	\$2.9450	2.54%	\$0.4190	\$0.0628	\$3.5036	\$3.5138	\$3.5036	\$3.5138	0	\$0
26	\$2.9550	2.54%	\$0.4190	\$0.0628	\$3.5138	\$2.9450	2.54%	\$0.4190	\$0.0628	\$3.5036	\$3.5138	\$3.5036	\$3.5138	0	\$0
27	\$2.9650	2.54%	\$0.4190	\$0.0628	\$3.5241	\$2.9650	2.54%	\$0.4190	\$0.0628	\$3.5241	\$3.5241	\$3.5241	\$3.5241	0	\$0
28	\$2.9350	2.54%	\$0.4190	\$0.0628	\$3.4933	\$2.9350	2.54%	\$0.4190	\$0.0628	\$3.4933	\$3.4933	\$3.4933	\$3.4933	0	\$0
29	\$2.8700	2.54%	\$0.4190	\$0.0628	\$3.4266	\$2.8600	2.54%	\$0.4190	\$0.0628	\$3.4163	\$3.4266	\$3.4163	\$3.4266	0	\$0
30	\$2.8400	2.54%	\$0.4190	\$0.0628	\$3.3958	\$2.8300	2.54%	\$0.4190	\$0.0628	\$3.3856	\$3.3958	\$3.3856	\$3.3958	0	\$0
														0	\$0

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub October 2016

_		CALCULATI	ON OF DAII	LY DAI TGT ZON	E 1		CALCULATI	ON OF DAI	Y DAI TGT ZONE	≣ 4					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS				(Col. 1/(1-Col.2))	PLATTS				(Col. 6/(1-Col.7))	DAILY		, ,	· · /	· - /
	GAS DAILY				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR Z	ONES	HIGHER OF		TOTAL
_	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	IGI-1	RETENTION	DEMAND	COMMODITY	TGT-1	TGT - ZONE 4	RETENTION	DEMAND	COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.6750	2.54%	\$0.4190	\$0.0627	\$3.2264	\$2.6900	2.54%	\$0.4190	\$0.0627	\$3,2418	\$3.2264	\$3.2418	\$3.2418	0	\$0
2	\$2.6750	2.54%	\$0.4190	\$0.0627	\$3.2264	\$2.6900	2.54%	\$0.4190	\$0.0627	\$3.2418	\$3.2264	\$3.2418	\$3.2418	0	\$0
3	\$2.6750	2.54%	\$0.4190	\$0.0627	\$3.2264	\$2.6900	2.54%	\$0.4190	\$0.0627	\$3.2418	\$3.2264	\$3.2418	\$3.2418	0	\$0 \$0
4	\$2.7100	2.54%	\$0.4190	\$0.0627	\$3.2623	\$2.6900	2.54%	\$0.4190	\$0.0627	\$3.2418	\$3.2623	\$3.2418	\$3.2623	0	\$0
5	\$2.7400	2.54%	\$0.4190	\$0.0627	\$3.2931	\$2.7200	2.54%	\$0.4190	\$0.0627	\$3.2726	\$3.2931	\$3.2726	\$3.2931	ñ	\$0
6	\$2.7950	2.54%	\$0.4190	\$0.0627	\$3.3495	\$2.7850	2.54%	\$0.4190	\$0.0627	\$3.3393	\$3.3495	\$3.3393	\$3.3495	n	\$0
7	\$2.8950	2.54%	\$0.4190	\$0.0627	\$3.4521	\$2.8850	2.54%	\$0.4190	\$0.0627	\$3.4419	\$3.4521	\$3,4419	\$3.4521	Ô	\$0
8	\$2.8400	2.54%	\$0.4190	\$0.0627	\$3.3957	\$2.8200	2.54%	\$0.4190	\$0.0627	\$3.3752	\$3.3957	\$3.3752	\$3.3957	ő	\$0
9	\$2.8400	2.54%	\$0.4190	\$0.0627	\$3.3957	\$2.8200	2.54%	\$0.4190	\$0.0627	\$3.3752	\$3.3957	\$3.3752	\$3.3957	ō	\$0
10	\$2.8400	2.54%	\$0.4190	\$0.0627	\$3.3957	\$2.8200	2.54%	\$0.4190	\$0.0627	\$3.3752	\$3.3957	\$3.3752	\$3.3957	ō	\$0
11	\$3.0400	2.54%	\$0.4190	\$0.0627	\$3.6009	\$3.0150	2.54%	\$0.4190	\$0.0627	\$3.5753	\$3.6009	\$3.5753	\$3.6009	ō	\$0
12	\$3.0350	2.54%	\$0.4190	\$0.0627	\$3.5958	\$3.0350	2.54%	\$0.4190	\$0.0627	\$3.5958	\$3.5958	\$3.5958	\$3.5958	ō	\$0
13	\$3.0450	2.54%	\$0.4190	\$0.0627	\$3,6061	\$3.0550	2.54%	\$0.4190	\$0.0627	\$3.6163	\$3.6061	\$3.6163	\$3.6163	ō	\$0
14	\$2.9450	2.54%	\$0.4190	\$0.0627	\$3.5035	\$0.0000	2.54%	\$0.4190	\$0.0627	\$0.4817	\$3.5035	\$0.4817	\$3.5035	Ō	\$0
15	\$2.9700	2.54%	\$0.4190	\$0.0627	\$3.5291	\$2.8850	2.54%	\$0.4190	\$0.0627	\$3.4419	\$3.5291	\$3.4419	\$3.5291	0	\$0
16	\$2.9700	2.54%	\$0.4190	\$0.0627	\$3.5291	\$2.8850	2.54%	\$0.4190	\$0.0627	\$3.4419	\$3.5291	\$3.4419	\$3.5291	0	\$0
17	\$2.9700	2.54%	\$0.4190	\$0.0627	\$3.5291	\$2.8850	2.54%	\$0.4190	\$0.0627	\$3.4419	\$3.5291	\$3.4419	\$3.5291	0	\$0
18	\$3.0150	2.54%	\$0.4190	\$0.0627	\$3.5753	\$2.9500	2.54%	\$0.4190	\$0.0627	\$3.5086	\$3.5753	\$3.5086	\$3.5753	0	\$0
19	\$3.0850	2.54%	\$0.4190	\$0.0627	\$3.6471	\$3.0750	2.54%	\$0.4190	\$0.0627	\$3.6368	\$3.6471	\$3.6368	\$3.6471	0	\$0
20	\$3.0450	2.54%	\$0.4190	\$0.0627	\$3.6061	\$3.0950	2.54%	\$0.4190	\$0.0627	\$3.6574	\$3.6061	\$3.6574	\$3.6574	0	\$0
21	\$2.9600	2.54%	\$0.4190	\$0.0627	\$3.5188	\$2.9750	2.54%	\$0.4190	\$0.0627	\$3.5342	\$3.5188	\$3.5342	\$3.5342	0	\$0
22	\$2.7450	2.54%	\$0.4190	\$0.0627	\$3.2982	\$2.7700	2.54%	\$0.4190	\$0.0627	\$3.3239	\$3.2982	\$3.3239	\$3.3239	0	\$0
23	\$2.7450	2.54%	\$0.4190	\$0.0627	\$3.2982	\$2.7700	2.54%	\$0.4190	\$0.0627	\$3.3239	\$3.2982	\$3.3239	\$3.3239	0	\$0
24	\$2.7450	2.54%	\$0.4190	\$0.0627	\$3.2982	\$2.7700	2.54%	\$0.4190	\$0.0627	\$3.3239	\$3.2982	\$3.3239	\$3.3239	0	\$0
25	\$2.6350	2.54%	\$0.4190	\$0.0627	\$3.1854	\$2.7200	2.54%	\$0.4190	\$0.0627	\$3.2726	\$3.1854	\$3.2726	\$3.2726	0	\$0
26	\$2.5750	2.54%	\$0.4190	\$0.0627	\$3.1238	\$2.6300	2.54%	\$0.4190	\$0.0627	\$3.1802	\$3.1238	\$3.1802	\$3.1802	0	\$0
27	\$2.6500	2.54%	\$0.4190	\$0.0627	\$3.2008	\$2.6900	2.54%	\$0.4190	\$0.0627	\$3.2418	\$3.2008	\$3.2418	\$3.2418	0	\$0
28	\$2.6100	2.54%	\$0.4190	\$0.0627	\$3.1597	\$2.6400	2.54%	\$0.4190	\$0.0627	\$3.1905	\$3.1597	\$3.1905	\$3.1905	0	\$0
29	\$2.5550	2.54%	\$0.4190	\$0.0627	\$3.1033	\$2.5650	2.54%	\$0.4190	\$0.0627	\$3.1135	\$3.1033	\$3.1135	\$3.1135	0	\$0
30	\$2.5550	2.54%	\$0.4190	\$0.0627	\$3.1033	\$2.5650	2.54%	\$0.4190	\$0.0627	\$3.1135	\$3.1033	\$3.1135	\$3.1135	0	\$0
31	\$2.5550	2.54%	\$0.4190	\$0.0627	\$3.1033	\$2.5650	2.54%	\$0.4190	\$0.0627	\$3.1135	\$3.1033	\$3.1135	\$3.1135	0	\$0
														0	\$0

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

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

COLUMN			1	2	3	4	5	6	7		8	9	10	11	12	13	14	15	16
					IAHAIYAA	SEASON		_	LATERAL C	CAPACITY AN	D FIRM MAINLINE REC	EIPT POINT CAI	PACITY						
CONTRACTS	_	ZONE	NOV. 15	DEC.15	JAN. 16	FEB. 16	MAR. 16	(SUM OF COL. 1-5)	ALLOCATION PERCENTAGE		APR. 16	MAY 18	JUN. 18	JUL. 16	AUG. 15	SEP. 16	OCT. 16	(SUM OF COL. 8-14)	ALLOCATION PERCENTAGE*
TGT-NNS-29781		SL	100,714	100,714	100,714	100.714	100,714	503,570	0.00%		37,630	37,830	0 57,830	57,830	0 57,830	0 57,830	0 57,830	0 364,810	0.00%
		TOTAL	85,493 188,207	85.493 186,207	65,483 186,207	85,493 185,207	85,493 186,207	427,465 931,035	45,91% 100,00%		43,542 81,372	43,542 81,372	23,542	23,542	23,542 81,372	23,542 81,372	23,542	204,794	35,95%
707 57 00000			0	0															
TGT-FT-28909		5L 1 4	1,900	1,900	1,900 10,000	1.900 10,000	1,900 10,000	9,500 50,000	0,00% 15,97% 84,03%		2,266 10,000	2,266 10,000	149 2,266 10,000	149 2,266 10,000	2,266 10,000	149 2,266 10,000	2,266 10,000	1,043 15,862 70,000	1.20% 18.25% 80.55%
		TOTAL	11,900	11,900	11,900	11,900	11,900	59,500	100.00%		12,415	12,415	12,415	12,415	12,415	12,415	12,415	86,905	100.00%
TGT-FT-34951		SL 1	0	0	0	0	0	0	0.00%		0	0	0	0	0	0	0	0	0,00% de00,0
		TOTAL	0	0	<u>0</u>	- 0	0	0	0.00%		0 0	0	60,000 60,000	60,000 80,000	60,000	60,000	60,000	300,000	100.00%
TGT-STF-32591		SL	0	0	0	۵	0	D	0,00%		0	0	0	0	0	0	0	0	0.00%
		TOTAL	0	0	0	0	- 0	0 0	0.00%		3,420 18,000	3,420 18,000	3,420 18,000 21,420	3,420 18,000 21,420	3,420 18,000 21,420	3,420 18,000 21,420	3,420 18,000 21,420	23,540 126,000 149,940	15.97% 84.03% 100.00%
			Ū		0	U			0.00%		21,420	21,420							
TGT-STF-34919		SL 1	0	100 100	30,000	0	0	30,100	0,00% 100,00% 0,00%		D B	0	0	0	0	0	0	0	0.00% 0.00% 0.00%
		TOTAL	0	100	30,000	0	0	30,100	100.00%		0	9	0	9	0	0	0	ā	0.00%
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% 0.00% 100.00%
		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		WINTER ALLOCATION PERCENT	TEXAS GAS SZFQE ZONE SL	TEXAS GAS SZFQE ZONE 1	TEXAS GAS SZFQE ZONE 4	TENNESSEE 8ZFQE ZONE 0	TENNESSEE SZFQE ZONE 1			SUMMER SEASON QUANTITY		SUMMER ALLOCATION PERCENT	TEXAS GAS SZFQE ZONE SL	TEXAS GAS SZFQE ZONE 1	TEXAS GAS SZFQE ZONE 4	TENNESSEE SZFQE ZONE 0	TENNESSEE SZFQE ZONE 1	
CONTRACTS TGT-NNS-29781	ENTITLEMENT 26,220,000	ZONE	(COL. 7)	(C.17 x C.19)	(C.17 x C.19)	(C.17 x C,19)	(C.17 x C.19)	(C.17 x C.19)	TOTAL		ENTITLEMENT	ZONE	(COL. 16) 0.00%	(C.26 x C.28)	(C.26 x C.28)	(C,26 x C,28)	(C.26 x C.26)	(C.26 x C.28)	TOTAL
161-445-29781	26,220,000	1	54.09% 45.91%	· ·	14,182,398	12.037,602					8.292,000	5L 1 4	64.05% 35.95%	0	5.311,026	2.980.974			
TGT-FT-29909	1,520,000	SL 1	0,00% 15.97%	D	242,744						2,140,000	SL 1	1,20% 18,25%	25,680	390,550				
TGT-FT-34951	0	4 SL	84.03%	0		1.277.256					9,180,000	4 SL	0.00%	0		1,723,770			
161-71-34851	Ü	1	%00.0 %00.0	v	0	٥					9,100,000	1 4	0,00%	0	D	9,180,000			
TGT-STF-32591	0	SL.	0.00% 0.00%	0	0						3,852,000	SL 1	0.00% 15,97%	0	615,164				
		4	0.00%			D						4	84,03%		010,10-1	3,236,836			
TGT-STF-34919	933,100	SL 1 4	0,00% 100,00% 0,00%	0	933,100	0					0	8L 1 4	8600.0 8600.0 8600.0	0	0	a			
TGPL-FT-A-111110	3,040,000	0	100.00%				3,040,000				4,280,000	0	100.00%				4.280.000		
TOTALS	31,713,100			D	15,358,242	13,314.858	3,040,000	0	31.713.100		27,744,000			25,880	8,316,740	17,121,560	4,280,000	<u>_</u>	27,744,000
SUPPLY ZONE FIRM QU	IANTITY ENTITLEMENT PERCENT**			0.00%	48,43%	41.98%	9.59%	0.00%	100.00%					0.09%	22.77%	61.71%	15.43%	0.00%	100.00%

^{*} ALLOCATION PERCENTAGE EQUALS TOTAL ZONE CAPACITY UNDER EACH CONTRACT DIVIDED BY TOTAL CAPACITY UNDER EACH CONTRACT.

[&]quot;THE WINTER SEASON SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENTAGE IS CALCULATED BY DIMDING 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 DIMDING THE TOTAL OF COL.28, 30, 31, 32, OR 33 BY THE TOTAL OF COL. 28.

PBR-TIF SUPPORTING CALCULATIONS

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

COLUMN 1 2 3 4 5 6 7 8 9

COLUMN	1	2	3	4	5	6	7	8	9							
			CALCULATE	ON OF TEXAS GAS	NO-NOTICE SERVIC	E PORTION OF BM	STC	CALCULATION OF	CURCUARCEC							
	***	NNS DI	EMAND CHARGES	COLATION OF BA	NNS CO	MMODITY CHARGE	S	AC								
	_	DEMAND	CONTRACT	TOTAL	COMMODITY	CITY-GATE	TOTAL	ACA	TOTAL							
MONTH	DAYS	CHARGE	DEMAND	(1x2x3)	CHARGE	DELIVERIES	(5x8)	CHARGE	(6x6)							
NOV. 15 DEC. 15	30 31	\$0.4190	184,900 184,900	\$2,324,193 \$2,401,666	\$0.0614 \$0.0614	1,947,310 1,472,643	\$119,565 \$90,420	\$0.0014 \$0.0014	\$2,726 \$2,062							
JAN, 16	31	\$0.4190	184,900	\$2,401,666	\$0.0614	1,670,140	\$102,547	\$0,0014	\$2,338							
FEB. 16	29	80,4190	164,900	\$2,246,720	\$0.0814	1,405,470	\$89,980	\$0.0014	\$2,052							
MAR, 16 APR, 16	31 30	\$0.4190 \$0.4190	184,900	\$2,401,688 \$1,224,821	\$0.0614 \$0.0614	1,035,121 571,415	\$63,556 \$35,085	\$0,0014 \$0,0014	\$1,449 \$800							
MAY 18	31	\$0.4190	60,000	\$779,340	\$0.0614	392,982	\$24,129	\$0.0014	\$550							
JUN. 16	30	\$0.4190	80,000	\$754,200	\$0.0614	450,877	\$27,084	\$0.0014	\$631							
JUL. 16	31	\$0.4190 \$0.4190	80,000 80,000	\$779,340	\$0.0614 \$0.0614	297,567	\$18,271 \$69,485	\$0.0014 \$0.0014	\$417 \$1.584							
AUG. 10 SEP. 10	31	\$0,4190 \$0,4190	60,000	\$779,340 \$754,200	\$0.0614	1,131,677 1,249,591	\$76,725	\$0.0014	\$1,749							
OCT. 18	31	\$0,4190	117.020	\$1,519,973	\$0.0814	935,834	\$57,480	\$0.0013	\$1,217							
TOTAL	366		1,438,980	\$18,367,125		12,620,627	\$774,907		\$17,575							
COLUMN	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
						CALCULATION	ALCULATION OF	TEXAS GAS RATE	FT PORTION OF B	MGTC			TOTAL COMM.	TOTAL	CALCULATION OF 8	BURCHARGES
	_	FT DE	MAND CHARGES	TOTAL	SL COMM.	SL CITY-GATE		FT COMMODITY C	HARGES Z3 COMM.	Z3 CITY-GATE	Z4 COMM.	71.007/0475	(14X15) + (16X17) + (18X19) +	CITY-GATE DELIVERY	ACA ACA	TOTAL
MONTH	DAYS	CHARGE	DEMAND	(10x11x12)	CHARGE	DELIVERIES	CHARGE	DELIVERIES	CHARGE	DELIVERIES	CHARGE	DELIVERIES	(20021)	(15+17+19+21)	CHARGE	(23x24)
NOV. 15	30	\$0.3142	10,000	\$94,260	\$0,0528	0	\$0.0508	290,179	\$0.0398	0	\$0.0380	10,000	\$15,101	300,179	\$0,0014	\$420
DEC. 15	31	\$0.3142	10,000	\$97,402	\$0.0528 \$0.0528	0	\$0.0508	93,938	\$0.0398	0	\$0.0380	0	\$4,772	93,938 231,432	\$0.0014 \$0.0014	\$132 \$324
JAN, 16 FEB, 16	31 29	\$0.3142 \$0.3142	10,000	\$97,402 \$91,118	\$0.0528	0	\$0.0508	231,432 181,989	\$0.0398	0	\$0.0380	0	\$11,757 \$9,244	181,959	\$0.0014	\$255
MAR. 16	31	\$0.3142	10,000	\$97,402	\$0.0528	0	\$0,0508	309,180	\$0.0398	o	\$0.0350	0	\$15,706	309,180	\$0.0014	\$433
APR. 16	30	\$0.3142	10,000	\$94,260	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0014	\$0
MAY 16 JUN. 18	31 30	\$0,3142 \$0,3142	10,000	\$97,402 \$94,260	\$0,0528 \$0,0528	0	\$0.0508 \$0.0508	305,085	\$0.0398	0	\$0.0360	0	\$15,498 \$15,240	305,085	\$0.0014 \$0.0014	\$427 \$420
JUL. 16	31	\$0.3142	10,000	\$97,402	\$0,0528	o	\$0.0508	305,883	\$0.0398	ő	\$0.0360	o	\$15,539	305,883	\$0.0014	\$428
AUG. 18	31	\$0.3142	10,000	\$97,402	\$0.0528	0	\$0.0508	310,000	\$0.0398	0	\$0.0360	0	\$15,748	310,000	\$0.0014	\$434
SEP. 16 OCT. 16	30 31	\$0.3142 \$0.3142	10,000	\$94,280 \$97,402	\$0.0528 \$0.0528	0	\$0.0508 \$0,0508	300,000	\$0.0398	0	\$0.0360 \$0.0360	0	\$15,240 \$15,684	300,000 308,747	\$0.0014 \$0.0013	\$420 \$401
	366	\$0.5142	120,000		\$0.0326	0	40,000	2.936,413	40.0380	0	30.0300	10,000	\$149,529	2,948,413	\$0.0013	\$4,094
TOTAL	300		120,000	\$1,149,972				2,830,413								34,094
COLUMN	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
						CALCULATION	OF BASE TARIFF F	TEXAS GAS RATE PATES		MGTC			TOTAL COMM.	TOTAL	CALCULATION OF S	SURCHARGES
	_		MAND CHARGES		SL COMM.	***	FTBA	CKHAUL COMMO	DITY CHARGES		74 COMM	74.0174.0475	(30X31)+	CITY-GATE	ACA	
MONTH	DAYS	DEMAND	CONTRACT	TOTAL (26x27x28)	SL COMM. CHARGE	SL CITY-GATE DELIVERIES	Z1 COMM. CHARGE	Z1 CITY-GATE DELIVERIES	Z3 COMM, CHARGE	Z3 CITY-GATE DELIVERIES	CHARGE	DELIVERIES	(32)(33) + (34)(35) + (36)(37)	DELIVERY (31+33+35+37)	ACA CHARGE	TOTAL (39x40)
NOV. 15	30	\$0.0000	0	\$0	\$0.0528	D	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0014	\$0
DEC. 15	31	\$0,0000	0	\$0	\$0.052B	0	\$0.0508	0	\$0.0398	0	\$0,0360	0	50	0	\$0,0014	80
JAN. 18 FEB. 16	31 29	\$0.0000 \$0.0000	0	\$0 \$0	\$0.0528 \$0.0528	0	\$0.0508 \$0.0508	0	\$0.0398 \$0.0398	0	\$0.0360 \$0.0380	0	\$0 50	0	\$0.0014 \$0.0014	80 50
MAR. 18	31	\$0,0000	0	\$0	\$0.0528	ő	\$0,0508	ő	\$0,0398	0	\$0.0360	ő	50	o	\$0.0014	\$0
APR. 18	30	\$0.0000	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0014	\$0
MAY 18	31	\$0.0000	0	80	\$0.0528	0	\$0.0508 \$0.0508	0	\$0.0398	0	\$0.0360	3.966	\$0 \$143	3,966	\$0.0014 \$6,0014	\$0 86
JUN. 16 JUL. 16	30 31	\$0.1374 \$0.1374	80,000 80,000	\$247,320 \$255,564	\$0.0528 \$0.0528	0	\$0.0508	ŏ	\$0.0398	0	\$0.0380	844,348	\$23,197	644,348	\$0.0014	\$902
AUG. 10	31	\$0.1374	80,000	\$255,564	\$0.0528	ō	\$0.0508	Ö	\$0.0398	Ö	\$0.0380	814,804	\$22,126	614,604	\$0.0014	\$860
SEP. 16	30	\$0.1374	60,000	\$247,320	\$0.0528	0	\$0,0508	0	\$0.0398	0	\$0.0380	594,780	\$21,412	594,780	\$0.0014	\$833
OCT, 18	31	\$0.1374	60,000	\$255,564	\$0.0528	0	\$0,0508	0	\$0.0398	0	\$0.0360	814,807	\$22,126	614,807	\$0.0013	\$799
TOTAL	366		300,000	\$1,261,332		0		0		0		2,472,305	\$89,004	2,472,305		\$3,400
COLUMN	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
						c	ALCULATION OF	TEXAS GAS RATE OF BASE TARIFF F	STF PORTION OF	вматс			TOTAL COMM.	TOTAL	A11 A11 1 TA11 AC	DUDOULGOES
		STFD	EMAND CHARGES					STF COMMODITY	CHARGES				(46)(47) +	CITY-GATE	CALCULATION OF S	
MONTH	DAYS	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (42x43x44)	SL COMM. CHARGE	SI, CITY-GATE DELIVERIES	Z1 COMM. CHARGE	Z1 CITY-GATE DELIVERIES	Z3 COMM, CHARGE	Z3 CITY-GATE DELIVERIES	Z4 COMM. CHARGE	Z4 CITY-GATE DELIVERIES	(46X49) + (50X51) + (52X53)	DELIVERY (47+49+51+63)	AGA CHARGE	TOTAL (55x58)
NOV. 15	DAYS 30	\$0.4252	0	\$0	80.0528	0	\$0,0508	0	\$0,0398	0	\$0.0360	0	\$0	0	\$0.0014	\$0
DEC. 15		\$0.4252	100	\$1,318 \$395,436	\$0.0528	0	\$0,0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0014	\$0
	31	80 4050			\$0.0528	0		641,066	\$0,0398	0	S0.0360 S0.0360	0	\$32,566 \$0	641,066	\$0.0014 \$0.0014	\$897 \$0
JAN. 16 FEB. 16	31	\$0.4252 \$0.4252	30,000	\$0	\$0.0528	0	\$0.0508						350	D		
FEB. 16 MAR. 16	31 29 31	\$0,4252 \$0,4252	0	\$0 \$0	\$0.0528	0	\$0.0508	o	\$0.0398	ō	\$0.0360	0	\$0	0	\$0.0014	\$0
FEB. 16 MAR. 16 APR. 18	31 29 31 30	\$0,4252 \$0,4252 \$0,1847	0 0 18,000	\$0 \$0 \$99,738	\$0.0528 \$0.0528	0	\$0.0508 \$0.0508	0	\$0.0398 \$0.0398	0	\$0.0360 \$0.0360	0	\$0 \$0	0	\$0.0014 \$0.0014	\$0 \$0
FEB. 16 MAR. 16 APR. 16 MAY 16	31 29 31 30 31	\$0,4252 \$0,4252 \$0,1847 \$0,1647	0 0 18,000 18,000	\$0 \$0 \$99,738 \$103,063	\$0.0528 \$0.0528 \$0.0528	0	\$0.0508 \$0.0508 \$0.0508	0 0 64,822	\$0.0398 \$0.0398 \$0.0398	0	\$0.0360 \$0.0360 \$0. 0360	0	\$0 \$0 \$3,293	0 0 64,822	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$91
FEB. 16 MAR. 16 APR. 16 MAY 16 JUN. 16	31 29 31 30 31 30	\$0,4252 \$0,4252 \$0,1847 \$0,1847 \$0,1847	0 0 18,000	\$0 \$0 \$99,738 \$103,063 \$99,738	\$0.0528 \$0.0528 \$0.0528 \$0.0528	0	\$0.0508 \$0.0508 \$0.0508 \$0.0508	0 0 64,822 540,000	\$0.0398 \$0.0398 \$0.0398 \$0.0398	0	\$0.0360 \$0.0360	0	\$0 \$0 \$3,293 \$27,432	0 0 84,822 540,000	\$0.0014 \$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$91 \$756
FEB. 16 MAR. 16 APR. 16 MAY 16 JUN. 16 JUL. 16 AUG. 18	31 29 31 30 31	\$0.4252 \$0.4252 \$0.1847 \$0.1847 \$0.1847 \$0.1847 \$0.1847	0 0 18,000 18,000 16,000 18,000	\$0 \$0 \$99,738 \$103,063 \$99,738 \$103,063 \$103,083	\$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528	0 0	\$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508	0 0 64,522 540,000 551,296 558,000	\$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398	0 0 0	\$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360	•	\$0 \$3,293 \$27,432 \$28,006 \$28,346	0 0 64,822	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$91
FEB. 16 MAR. 18 APR. 18 MAY 18 JUN. 18 JUL. 10 AUG. 18 SEP. 10	31 29 31 30 31 30 31 31 31	\$0.4252 \$0.4252 \$0.1847 \$0.1847 \$0.1847 \$0.1847 \$0.1847	0 0 18,000 18,000 18,000 18,000 18,000	\$0 \$90,738 \$103,083 \$99,738 \$103,083 \$103,083 \$99,738	\$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528	0 0 0	\$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508	0 0 64,822 540,000 551,296 558,000 540,000	\$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398	0 0 0 0 0	\$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360	0	\$0 \$0 \$3,293 \$27,432 \$28,006 \$28,346 \$27,432	0 0 84,822 540,000 551,296 558,000 540,000	\$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$91 \$756 \$772 \$781 \$756
FEB. 16 MAR. 18 APR. 18 MAY 18 JUN. 18 JUL. 10 AUG. 18	31 29 31 30 31 30 31 31	\$0.4252 \$0.4252 \$0.1847 \$0.1847 \$0.1847 \$0.1847 \$0.1847	0 0 18,000 18,000 16,000 18,000	\$0 \$0 \$99,738 \$103,063 \$99,738 \$103,063 \$103,083	\$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528 \$0.0528	0 0 0	\$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508 \$0.0508	0 0 64,522 540,000 551,296 558,000	\$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398 \$0.0398	0 0 0	\$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360 \$0.0360	0	\$0 \$3,293 \$27,432 \$28,006 \$28,346	0 0 64,622 540,000 551,298 556,000	\$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$81 \$756 \$772 \$781

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

COLUMN	58	59	60	61
		NNS		TOTAL
	CALC. OF DIRE	CTBILLS	TOTAL	NNS
MONTH	CASH- OUT	OTHER	S&DB (9+58+59)	BMGTC 4+7+80
NOV. 15	\$0	\$0	\$2,726	\$2,446,484
DEC. 15	\$0	\$0	\$2,062	\$2,494,148
JAN. 16	(\$24,370)	\$0	(\$22,032)	\$2,482,181
FÉB. 16	\$0	\$0	\$2,052	\$2,338,752
MAR, 16	\$0	\$0	\$1,449	\$2,466,671
APR, 16	\$0	\$0	\$800	\$1,260,706
MAY 16	\$0	\$0	\$550	\$804,019
JUN. 16	\$0	\$0	\$631	\$782,515
JUL. 16	\$0	\$0	\$417	\$798,028
AUG, 16	\$0	\$0	\$1,584	\$850,409
SEP. 16 OCT. 18	\$0 \$0	02 02	\$1,749 \$1,217	\$832,674 \$1,578,650
TOTAL	(\$24,370)	\$0	(\$8,795)	\$19,135,237
COLUMN	82	63	84	65
		FÍ		TOTAL FT
	CALC. OF DIRE	CTBILLS	TOTAL S&DB	BMGTC
MONES:	CASH-		(25+82+	(13+22+
MONTH NOV. 15	OUT	OTHER \$0	<u>63)</u> \$420	\$109,781
	\$0 50	\$0 \$0	\$420 \$132	\$109,781
DEC, 15 JAN, 18	\$0 \$0	\$0 \$0	\$132 \$324	\$102,308 \$109,483
FEB. 18	\$0	50	\$255	\$100,617
MAR. 18	\$0	\$0	\$433	\$113,541
APR. 16	\$0	\$0	\$0	\$94,260
MAY 16	\$0	\$0	\$427	\$113,327
JUN, 16	\$0	\$0	\$420	\$109,920
JUL. 16	\$0	\$0	\$428	\$113,369
AUG. 16	\$0	\$0	\$434	\$113,584
SEP. 16	\$0	\$0	\$420	\$109,920
OCT. 18	\$0	\$0	\$401	\$113,487
TOTAL	\$0	\$0	\$4,094	\$1,303,595
COLUMN	66	67	68	69
COLUMN	66	67	68	69
COLUMN	F	T BACKHAUL		TOTAL FT BACKHAUL
COLUMN	CALC, OF DIRE	T BACKHAUL	TOTAL SADE	TOTAL FT BACKHAUL BMGTC
	CALC. OF DIRE	T BACKHAUL CT BILLS	TOTAL S&DB (41+88+	TOTAL FT BACKHAUL BMGTC (29+38+
MONTH	CALC. OF DIRE CASH- OUT	T BACKHAUL CT BILLS OTHER	TOTAL \$8.08 (41+86+ 87)	TOTAL FT BACKHAUL BMGTC (29+38+ 68
MONTH NOV, 15	CALC. OF DIRE CASH- OUT \$0	T BACKHAUL CT BILLS OTHER \$0	TOTAL \$8.08 (41+66+ 67) \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68 \$0
MONTH NOV. 15 DEC. 15	CALC. OF DIRE CASH- OUT \$0	T BACKHAUL CT BILLS OTHER \$0 \$0	TOTAL \$&08 (41+66+ 67) \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68 \$0
MONTH NOV. 15 DEC. 15 JAN. 16	CALC. OF DIRE CASH- GUT \$0 \$0 \$0	OTHER \$0 \$0	TOTAL \$8.08 (41+66+ 67) \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 85 \$0 \$0
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 18	CALC. OF DIRE CASH- OUT \$0	T BACKHAUL CT BILLS OTHER \$0 \$0	TOTAL \$8.08 (41+86+ 67) \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68 \$0
MONTH NOV. 15 DEC. 15 JAN. 10 FEB. 16 MAR. 16	CALC. OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	TBACKHAUL CTBILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29-38+
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 18 MAY 16	CALC. OF DIRE CASH- OUT S0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) 80 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 66 30 \$0 \$0 \$0 \$0 \$0 \$0
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 16	CALC. OF DIRE CASH-OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TBACKHAUL CTBILLS OTHER S0	TOTAL S&DB (41+66+ 67) 80 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 80 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$247,489
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16	CALC. OF DIRE CASH- OUT SO \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+86+ 67) 50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$6 \$80 \$80 \$80 \$80 \$80 \$80 \$80 \$80 \$80 \$80	TOTAL FT BACKHAUL BMGTC (29+38+ 68- 80 80 80 80 80 80 \$0 \$0 \$247,499 \$247,683
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 MAY 16 JUN. 16 JUL. 16 AUG. 16	CALC. OF DIRE CASH- OUT SO	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL SADE (41+66+ 67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 80 \$0 \$0 \$0 \$0 \$0 \$0 \$27,469 \$279,653
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 16	CALC. OF DIRE CASH- OUT SO \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL COT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&OB (41+66+ 67) \$0 \$0 \$0 \$0 \$0 \$0 \$80 \$80 \$800 \$800 \$8	TOTAL FT BACKHAUL BMGTC (29+38+ 68- 80 80 80 80 80 \$0 \$247,489 \$276,580
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 MAY 16 JUN. 16 JUL. 16 AUG. 16	CALC. OF DIRE CASH- OUT SO	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL SADE (41+66+ 67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 80 \$0 \$0 \$0 \$0 \$0 \$0 \$27,469 \$279,653
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 16	CALC. OF DIRE CASH- OUT SO \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL COT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&OB (41+66+ 67) \$0 \$0 \$0 \$0 \$0 \$0 \$80 \$80 \$800 \$800 \$8	TOTAL FT BACKHAUL BMGTC (29+38+ 68- 80 80 80 80 80 \$0 \$247,489 \$276,580
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16	CALC. OF DIRE CASH- OUT SO \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	F BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&OB (41+66+ 67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- 80 80 80 80 80 \$0 \$247,489 \$278,585 \$289,585
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 10 JUN. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL	CALC. OF DIESE CASH- OUT SO SO SO SO SO SO SO SO SO S	T BACKHAUL. CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$6 \$90 \$60 \$833 \$7790 \$3,400	TOTAL FT BACKHAUL BMGTC (29+38+ 98 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$247,469 \$279,663 \$278,550 \$269,565 \$278,469
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 10 JUN. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL	CALC. OF DIRE CASH- OUT SO SO SO SO SO SO SO SO SO S	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$2247,489 \$2778,683 \$2778,585 \$249,585 \$278,573
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 10 JUN. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL	### CALC. OF DIRE	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL SADE (41+66+ 41+6	TOTAL FT BACKHAUL BMGTC (29+38+ 98. \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$247,663 \$279,663 \$279,663 \$278,565 \$278,489 \$1,353,736
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR 10 JUL. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL	CALC. OF DIREC CASH- COUT SO SO SO SO SO SO SO SO SO S	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67), \$0 \$0 \$0 \$0 \$0 \$0 \$6 \$60 \$843 \$3,400 \$72	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$247,499 \$278,595 \$2278,489 \$1,353,738 73 TOTAL STF BMGTC (45+54+
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 AFR. 16 JUL. 16 JUL. 16 SEP. 16 OCT. 16 TOTAL COLUMN	CALC. OF DIREC CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&OB (41+50+51).	TOTAL FT BACKHAUL BMGTC (26+38+ 98 \$0 \$0 \$0 \$0 \$0 \$0 \$27,469 \$279,653 \$229,565 \$279,649 \$1,353,738 TOTAL STF BMGTC (45+54+ 72
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL COLUMN	CALC. OF DIRECASH-OUT CASH-OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67), \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- 80 80 80 80 80 80 \$247,489 \$278,585 \$278,489 \$1,353,738 73 TOTAL STF BMGTC (45+54+ 72 \$2
MONTH NOV. 15 DEC. 15 JAN. 10 FEB. 10 MAR. 10 APR 10 APR 10 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL COLUMN MONTH NOV. 15 DEC. 15	CALC. OF DIREC CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&OB (41+50+51).	TOTAL FT BACKHAUL BMGTC (26+38+ 98 \$0 \$0 \$0 \$0 \$0 \$0 \$27,469 \$279,653 \$229,565 \$279,649 \$1,353,738 TOTAL STF BMGTC (45+54+ 72
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUN. 16 JUL. 16 JUL. 16 SEP. 16 OCT. 16 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 18 FEB. 16	CALC. OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (26+36+ 80 \$0 \$0 \$0 \$0 \$0 \$247,469 \$279,683 \$279,550 \$269,565 \$278,469 \$1,353,736 TOTAL STF BMGTC (45+54+ 72 \$0 \$1,318 \$448,869 \$0
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 10 APR 10 MAY 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL COLUMN MONTH NOV. 15 OEC. 15 JAN. 18 FEB. 16 MAR. 16	CALC. OF DIRE CASH- OUT SO	T BACKHAUL CT BILLS OTHER 80 80 80 80 80 80 80 80 80 80 80 80 80	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$247,499 \$278,595 \$227,899 \$1,353,738 73 TOTAL STF BMGTC (445-54- 72 \$0 \$1.318 \$428,899
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 10 APR 10 MAY 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL COLUMN MONTH NOV. 15 OEC. 15 JAN. 18 FEB. 16 MAR. 16	CALC. OF DIREC CASH. CALC. OF DIREC CASH. \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (26+36+ 80 \$0 \$0 \$0 \$0 \$0 \$247,469 \$279,683 \$279,550 \$269,565 \$278,469 \$1,353,736 TOTAL STF BMGTC (45+54+ 72 \$0 \$1,318 \$448,869 \$0
MONTH NOV. 13 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL MONTH NOV. 15 OEC. 15 JAN. 18 FEB. 16 APR. 16	CALC. OF DIREC CASH-OUT SO	T BACKHAUL. CT BILLS OTHER 80 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$247,489 \$278,580 \$248,785 \$278,489 \$1,353,738 73 TOTAL STF BMGTC (45+54+ 72 \$0 \$1,318 \$428,889 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 18 TOTAL COLUMN MONTH NOV. 15 OEC. 15 JAN. 18 APR. 16 MAY. 16 MAY. 16 JUL. 16 JUL. 16 ARR. 16 APR. 16 MAY. 16 JUN. 16	CALC. OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+60+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$247,499 \$278,580 \$278,580 \$278,580 \$278,580 \$278,580 \$278,580 \$1,353,738 TOTAL STF BMGTC (45+54+ 72 \$0 \$1,318 \$428,899 \$0 \$99,738 \$106,447 \$127,926
MONTH NOV. 13 DEC. 15 JAN. 16 FEB. 16 APR. 16 APR. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL MONTH NOV. 15 OEC. 15 JAN. 18 FEB. 16 APR. 16 APR. 16 JAN. 18 FEB. 16 JAN. 18 FEB. 16 JAN. 18 FEB. 16 JAN. 18	CALC. OF DIRE CASH- OUT SO	T BACKHAUL. CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL SADE (41-66-67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$247,489 \$278,580 \$248,985 \$278,489 \$1,353,738 73 TOTAL STF BMGTC (49+54+ 72 \$0 \$1,318 \$428,889 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,313,431
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 JUL. 16 OCT. 18 TOTAL COLUMN MONTH NOV. 15 OEC. 15 JAN. 18 APR. 16 MAY 16 JUL. 16	CALC. OF DIREC CASH- OUT S0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$247,499 \$278,595 \$269,595 \$278,489 \$1,353,736 TOTAL STF BIMGTC (45+54+ 72 \$0 \$1,3184 \$428,899 \$0 \$9,738 \$106,447 \$127,926 \$131,844
MONTH NOV. 13 DEC. 15 JAN. 16 FEB. 16 APR. 16 APR. 16 JUL. 16 AUG. 16 SEP. 16 OCT. 16 TOTAL MONTH NOV. 15 OEC. 15 JAN. 18 FEB. 16 APR. 16 APR. 16 JAN. 18 FEB. 16 APR. 16	CALC. OF DIRE CASH- OUT SO \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	T BACKHAUL. CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL SADE (41-66-67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$247,489 \$279,683 \$278,580 \$249,585 \$278,489 \$1,353,738 73 TOTAL STF BMGTC (45+54+ 72 \$0 \$1,318 \$428,889 \$0 \$0 \$0 \$0 \$1,318 \$127,926 \$131,841 \$132,190 \$127,926
MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 APR. 16 JUL. 16 JUL. 16 JUL. 16 OCT. 18 TOTAL COLUMN MONTH NOV. 15 OEC. 15 JAN. 18 APR. 16 MAY 16 JUL. 16	CALC. OF DIREC CASH- OUT S0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	T BACKHAUL CT BILLS OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+66+67) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL FT BACKHAUL BMGTC (29+38+ 68- \$0 \$0 \$0 \$0 \$0 \$0 \$247,499 \$278,595 \$269,595 \$278,489 \$1,353,736 TOTAL STF BIMGTC (45+54+ 72 \$0 \$1,3184 \$428,899 \$0 \$9,738 \$106,447 \$127,926 \$131,844

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

COLUMN 74

	TOTAL
	BM(TGT
MONTH	(61+65+69+73
NOV. 15	\$2,556,263
DEC. 15	\$2,597,773
JAN. 16	\$3,020,56
FEB. 16	\$2,439,36
MAR. 16	\$2,580,212
APR, 16	\$1,454,70
MAY 16	\$1,023,79
JUN, 16	\$1,267,83
JUL. 16	\$1,322,90
AUG. 16	\$1,374,73
SEP. 16	\$1,340,08
DCT. 16	\$2,102,64
TOTAL	\$23,080,87

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

OLUMN	75	76	77	78	79	80	81	82	83	84	85	86	87
			10111 12001 000	CALCULATION	F TENNESSEE GAS	PIPELINE FT-A	SERVICE (ZONE 0)	PORTION OF BMGT	С				
	ET 4 YOME	0 DEMAND CHAR	CES CES	SE TARIFF RATES	COMMODITY CHAP	loce -	EPCR ADJU	CALCULATI	ON OF SURCHAR	RGES AND DIRE	CTBILLS		TOTA
	DEMAND	CONTRACT	TOTAL	COMMODITY	CITY-GATE	TOTAL	EPCR ADJUS	TOTAL	ACA	TOTAL		TOTAL S&DB	FT-A ZN
MONTH.	CHARGE	DEMAND							ACA			(82 +	BMGT
NOV. 15			(75x76) \$311,912	CHARGE	DELIVERIES	(78x79)	CHARGE	(70x81)	CHARGE	(79x83)	OTHER	84 + 85)	(77+80+8
	\$15.5950	20,000		\$0.0184	600,000	\$11,040	\$0.0292	\$17,520	\$0.0014	\$840	80	\$18,380	\$341,3
DEC. 15	\$15,5956	20,000	\$311,912	\$0.0184	306,842	\$5,643	\$0.0292	\$8,954	\$0.0014	\$429	\$0	\$9,383	\$326,9
JAN. 18	\$15.5956	20,000	\$311,912	\$0.0184	616,447	511,343	\$0.0292	\$18,000	\$0,0014	\$863	80	\$18,883	\$342,1
FEB. 16	\$15,5950	20,000	\$311,912	\$0.0184	400,000	\$7,360	\$0.0292	\$11,680	\$0,0014	\$560	60	\$12,240	\$331,5
MAR. 16	\$15.5956	20,000	\$311,912	\$0.0184	220,000	\$4,048	\$0.0292	\$6,424	\$0.0014	\$308	80	\$6,732	\$322,6
APR. 16	\$15.5956	20,000	\$311,912	\$0.0184	0	\$D	\$0.0147	\$0	\$0.0014	\$0	\$0	\$0	\$311,9
MAY 16	\$15.5956	20,000	\$311,912	\$0.0184	0	\$0	\$0.0147	\$0	\$0.0014	\$0	\$D	\$0	\$311,9
JUN. 16	\$15,5956	20,000	\$311,912	\$0.0184	600,000	\$11,040	\$0.0147	\$8,820	\$0.0014	\$840	80	\$9,660	\$332.6
JUL. 16	\$15,5956	20,000	\$311,912	\$0.0184	620,000	\$11,408	\$0.0147	\$9,114	\$0.0014	\$868	80	\$9,982	\$333,3
AUG. 18	\$15.5956	20,000	\$311,912	\$0.0184	620,000	\$11,408	\$0.0147	\$9,114	\$0.0014	\$868	\$0	\$9,982	\$333,3
SEP. 16	\$15,5958	20,000	\$311,912	\$0.0184	600,000	\$11,040	\$0.0147	\$8,820	\$0.0014	\$840	\$0	\$9,860	\$332,6
OCT. 16	\$15.5956	20,000	\$311,912	\$0.0184	620,000	\$11,408	\$0.0147	\$9,114	\$0.0013	\$806	80	\$9,920	\$333,2
DTAL		240,000	\$3,742,944		5,203,089	\$95,738		\$107,560		\$7,222	\$0	\$114,782	\$3,953,4
OLUMN	88	89	90	91	92	93	94	96	96	97	98	99	100
				CALCULATION C	F TENNESSEE GAS	PIPELINE FT-A	SERVICE ZONE 1	PORTION OF BMG1	гс				
	ET-A ZONE	CA E 1 DEMAND CHAR	LCULATION OF BA	SE TARIFF RATES	COMMODITY CHAP	CES	EPCR ADJU	CALCULAT	ON OF SURCHAP	RGES AND DIRE	CTBILLS	TOTAL S&DB	FT-A ZN
	DEMAND	CONTRACT	TOTAL		CITY-GATE	TOTAL	EPCR	TOTAL	ACA	TOTAL			
HONTH				COMMODITY	DELIVERIES					TOTAL	OTHER	(95 +	BMG
MONTH .	CHARGE	DEMAND	(88x89)	CHARGE	DELIVERIES	(91x92)	CHARGE	(92x94)	CHARGE	(92x96)	OTHER	97 + 98)	(90+93+
NOV. 15	\$10.6611	0	\$0	\$0.0154	0	80	\$0.0242	\$0	\$0.0014	\$0	\$10	\$0	
DEC. 15	\$10.6811	0	\$0	\$0.0154	0	\$0	\$0.0242	80	\$0.0014	\$0	80	\$0	
JAN. 16	\$10.8811	0	\$0	\$0.0154	0	\$0	\$0.0242	\$0	\$0.0014	\$0	\$0	\$0	
EB. 18	\$10.6811	0	\$0	\$0.0154	0	\$0	\$0.0242	\$0	\$0.0014	\$0	\$0	\$0	
AR. 18	\$10.6611	0	\$0	\$0.0154	0	\$0	\$0.0242	\$0	\$0.0014	\$0	\$0	\$0	
APR. 18	\$10.8811	0	\$0	\$0.0154	0	\$0	\$0.0122	\$0	\$0.0014	\$0	80	\$0	
MAY 18	\$10.6811	0	\$0	\$0.0154	0	\$0	\$0.0122	\$0	\$0.0014	\$0	80	\$0	
JUN. 16	\$10.6811	0	\$0	\$0.0154	0	\$0	\$0.0122	\$0	\$0.0014	\$0	\$10	\$0	
JUL. 16	\$10.0611	0	\$0	\$0.0154	0	\$0	\$0.0122	\$0	\$0.0014	\$0	\$0	\$0	
AUG. 16	\$10,6611	0	\$0	\$0.0154	0	\$0	\$0.0122	SO	\$0,0014	\$0	80	\$0	
SEP. 16	\$10.6611	0	\$0	\$0.0154	0	\$0	\$0.0122	\$0	\$0.0014	\$0	80	\$0	
OCT. 16	\$10,6611	o	\$0	\$0.0154	0	\$0	\$0.0122	\$0	80.0013	\$D	\$0	\$0	
OTAL		0	\$0		D	\$0		\$0		\$0	\$0	\$0	
OLUMN	101	102	103	104	106	106	107	108	109	110	111	112	113
	_			CALCULATION	F TENNESSEE GA	PIPELINE FT-A	SERVICE (ZONE 2)	PORTION OF BMG	rc				
	CT-A 70M	C/ E 2 DEMAND CHAR	NLCULATION OF BA	SE TARIFF RATES	COMMODITY CHAP	OCES	EPCR ADJU	CALCULAT	ON OF SURCHAI	RGES AND DIRE	CTBILLS	TOTAL SADB	TOTA
	DEMAND		TOTAL	COMMODITY	CITY-GATE	TOTAL	EPCR	TOTAL	ACA	TOTAL			
LIGHTH		CONTRACT									OTHER	(108 +	BMG
MONTH	CHARGE	DEMAND	(101x102)	CHARGE	DELIVERIES	(104x105)	CHARGE	(105x107)	CHARGE	(105x109)	OTHER	110+1111	(103+108+1
NOV. 15	\$5.5212	0	\$0	\$0.0019	0	80	\$0.0015	\$0	80.0014	\$0	80	\$0	
DEC. 15	\$5.5212	0	\$0	\$0.0019	0	\$0	\$0,0015	\$0	\$0.0014	\$0	80	\$0	
JAN. 16	\$5.5212	0	80	\$0,0019	0	\$0	\$0.0015	\$0	\$0.0014	\$0	\$0	\$0	
FEB. 16	\$5.5212	0	\$0	\$0.0019	0	\$0	\$0.0015	\$0	\$0.0014	\$0	\$0	\$0	
MAR. 16	\$5.5212	0	\$0	\$0.0019	0	\$0	\$0.0015	\$0	\$0.0014	\$0	\$0	\$0	
APR. 16	\$5.5212	0	\$0	\$0.0019	0	\$0	\$0.0008	\$0	\$0.0014	\$0	\$0	\$0	
MAY 18	\$5.5212		80	\$0,0019	O.	\$0	\$0.0008	\$0	\$0.0014	\$0	\$0	\$0	
JUN. 16		0		\$0.0019	0	\$0	\$0.0008	\$0	\$0.0014	\$0	\$0	\$0	
	\$5.5212	0	\$0	20.007W							**		
	\$5.5212 \$5.5212		\$0	\$0.0019	0	\$0	\$0,0008	\$0	\$0.0014	\$0	\$0	\$0	
JUL. 10	\$5.5212 \$5.5212	0	\$0 \$0	\$0.0019		\$0		\$0	\$0.0014			\$0	
JUL. 18 NJG. 18	\$5.5212 \$5.5212 \$5.5212	0	\$0 \$0 \$0	\$0.0019 \$0.0019	0	\$0 \$0	\$0,0008 \$0,0008	\$0 \$0	\$0.0014 \$0.0014	\$0	\$0	\$0 \$0	
JUL. 16 AUG. 16 SEP. 16	\$5.5212 \$5.5212	0	\$0 \$0	\$0.0019	0	\$0	\$0.0008	\$0	\$0.0014			\$0	
JUL. 18 AUG. 18 SEP. 18 OCT. 18	\$5.5212 \$5.5212 \$5.5212 \$5.5212	0 0	\$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0	\$0 \$0	\$0 \$0 \$0	
JUL. 16 AUG. 18 SEP. 18 OCT. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212	0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUE. 18 AUG. 18 SEP. 18 DCT. 18 DTAL	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212	0 0 0 0 0 0 0 115 TOTAL BM(TGPL)	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL. 18 JUG. 18 SEP. 18 DCT. 19 DTAL DLUMN	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212	0 0 0 0 0 115 TOTAL BM(TGPL) 7*100*113*114}	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 18 IUG. 18 SEP. 18 SEP. 18 DCT. 19 DTAL DLUMN MONTH IOV. 15	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 11.4 TOTAL \$6.06 (\$3.465)	0 0 0 0 0 0 115 TOTAL BM(TGPL) 7*100*113*1149 \$337,857	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 18 JUG 18 SEP. 18 DET 16 D	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 114 TOTAL \$8.00 (\$3,455) (\$885)	TOTAL BM(TGPL) 7+100+113+114 \$337,857 \$326,853	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL_16 AUG. 18 SSEP. 16 OCTAL DTAL OLUMN MONTH NOV. 15 DEC. 15 JAN. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 11.4 TOTAL 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL. 16 AUG. 18 SEP. 18 OCT. 10 OTAL OLUMN MONTH NOV. 15 DEC. 15 JAN. 18	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 114 TOTAL \$8.00 (\$3,455) (\$885)	TOTAL BMTGPL) 7+100+113+114 8337,857 \$228,853 \$341,994	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 AUG. 18 SEP. 18 SEP. 18 OCT. 16 OTAL OLUMN MONTH NOV. 15 DEC. 15 JAN. 18 FEB. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 11.4 TOTAL 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 AUG. 18 SEP. 18 OCT. 18 OCTAL OLUMN MONTH NOV. 15 DEC. 15 JAN. 18 FEB. 16 AMR. 10	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 114 TOTAL 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL_16 AUG. 16 AUG. 16 SEP. 18 OCT. 16 OTAL OLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 10 APR. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 114 TOTAL \$8.09 (\$3.455) (\$124) \$5.511 (\$1,091) \$1,112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 AUG. 18 SEP. 18 OCT. 10 OTAL OLUMN MONTH NOV. 15 DEC. 15 JEA. 16 APR. 16 APR. 16 MAY 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 114 TOTAL \$8.00 (\$3.40) (\$4.50) (\$4.50) (\$4.50) (\$1.24) \$5.11 (\$1.001) \$1.112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL_16 AUG. 16 AUG. 16 SEP. 16 OCT. 16 OTAL OLUMN MONTH NOV. 15 DEC. 15 JAN. 18 FEB. 16 MAY. 16 MAY. 16 JUN. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$1.44 TOTAL \$8.09 (\$3.465) (\$124) \$5.11 (\$1.041) \$1.112 \$0 \$1.752	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 AUG. 18 SEP. 18 OCT. 18 OCTAL OLUMN MONTH NOV. 16 DEC. 15 JAN. 18 FEEL. 18 AAR. 18 AAR. 16 AAR. 16 JUN. 16 JUL. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$1.44 TOTAL \$3.06 (\$455) (\$455) (\$455) (\$1,102 \$1,75	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 UNG 16 SEP. 18 DOTAL DITAL DLUMN MONTH HOV. 15 SEC. 15 JAN. 16 HOR.	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$1.44 TOTAL \$8.09 (\$3.466) (\$3.466) (\$3.466) (\$1.061) \$1.112 \$1.114 (\$1.061) \$1.112 \$1.752 \$1.114 (\$1.061)	115 TOTAL BM(TGPL) 7+100+113-1141 937,857 \$32,853 \$341,994 \$332,023 \$321,801 \$313,024 \$313,024 \$313,024 \$334,484	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL. 16 UUG. 18 SEP. 18 DOTAL DITAL DLUMN MONTH OV. 16 SEC. 15 LAN. 18 FEB. 16 AAR. 18 LAN. 18 LAN	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.4050 (\$450) (\$450) (\$450) \$1.112 \$1.792 \$1.792 \$1.114 (\$1.681) (\$4,681)	TOTAL BM(TGPL) 7+100+113-1141 5337,857 328,853 3341,994 3332,023 3311,912 3334,384 3334,418 3334,418	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 JUG 16 SEP. 16 DOTAL DUMN MONTH OV. 16 DEC. 15 JAN. 18 FEB. 16 AAR. 18 APR. 18 MAY 16 JUL	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$1.44 TOTAL \$8.09 (\$3.466) (\$3.466) (\$3.466) (\$1.061) \$1.112 \$1.114 (\$1.061) \$1.112 \$1.752 \$1.114 (\$1.061)	115 TOTAL BM(TGPL) 7+100+113-1141 937,857 \$32,853 \$341,994 \$332,023 \$321,801 \$313,024 \$313,024 \$313,024 \$334,484	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	
JUL 16 JUG 16 SEP 18 DOTAL OLUMN MONTH HOV. 15 DEC. 15 JAN. 18 FEB. 16 HAR. 19 HAR. 16 HAY 16 JUN. 16	\$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.5212 \$5.4050 (\$450) (\$450) (\$450) \$1.112 \$1.792 \$1.792 \$1.114 (\$1.681) (\$4,681)	TOTAL BM(TGPL) 7+100+113-1141 5337,857 328,853 3341,994 3332,023 3311,912 3334,384 3334,418 3334,418	\$0 \$0 \$0 \$0 \$0	\$0.0019 \$0.0019 \$0.0019	0 0 0	\$0 \$0 \$0 \$0	\$0,0008 \$0,0008 \$0,0008	\$0 \$0 \$0 \$0	\$0.0014 \$0.0014 \$0.0014	\$0 \$0 \$0	\$0 \$0 \$0	\$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	116	117	11B	119	
	\$UMMARY:	OF PIPELINE BEN	CHMARKS		
	TOTAL	TOTAL			
	BM(TGT)	BM(TGPL)	TOTAL	TABMGTC	
MONTH	_COL. 74	CQL. 115	BM-PPL *	(116+117+118)	*THERE WERE NO TRANSACTIONS WHICH
NOV. 15	\$2,556,265	\$337,857	\$0	\$2,894,122	REQUIRED LG&E TO USE PIPELINE SERVICES
DEC. 15	\$2,597,772	\$326,853	\$0	\$2,924,625	OTHER THAN THOSE IT HAD UNDER CONTRACT.
JAN. 16	\$3,020,563	\$341,994	\$0	\$3,382,557	THEREFORE, NO PROXY PIPELINE BENCHMARK
FEB. 16	\$2,439,369	\$332,023	\$0	\$2,771,392	HAS BEEN CALCULATED.
MAR. 16	\$2,580,212	\$321,6D1	\$0	\$2,901,813	
APR, 16	\$1,454,704	\$313,024	\$0	\$1,767,728	
MAY 16	\$1,023,793	\$311,912	\$0	\$1,335,705	
JUN, 18	\$1,267,830	\$334,364	\$0	\$1,602,194	
JUL, 16	\$1,322,901	\$334,416	\$0	\$1.657,317	
AUG. 18	\$1,374.733	\$331,641	\$0	\$1,708,374	
SEP. 16	\$1,340,085	\$328,001	\$0	\$1,668,086	
OCT. 18	\$2,102,647	\$332,626	\$0	\$2,435,273	
TOTAL	\$23,080,874	\$3,946,312	\$0	\$27,027,186	

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
OCECIVIIA	l l	~	

MONTH_	ACTUAL PIPELINE TRANSPORTATION COSTS - TEXAS GAS	ACTUAL ANNUAL GAS TRANSPORT. COSTS - TENNESSEE	TOTAL ANNUAL ACTUAL GAS TRANSPORTATION COSTS ("TAAGTC") (1 + 2)
NOV. 15	\$2,514,231	\$178,425	\$2,692,656
DEC. 15	\$2,561,026	\$167,421	\$2,728,447
JAN. 16	\$2,979,583	\$182,562	\$3,162,145
FEB. 16	\$2,402,095	\$172,591	\$2,574,686
MAR. 16	\$2,536,838	\$162,169	\$2,699,007
APR. 16	\$1,408,444	\$153,592	\$1,562,036
MAY 16	\$964,598	\$152,480	\$1,117,078
JUN. 16	\$1,195,697	\$174,932	\$1,370,629
JUL. 16	\$1,248,696	\$174,984	\$1,423,680
AUG. 16	\$1,300,198	\$172,209	\$1,472,407
SEP. 16	\$1,267,953	\$168,569	\$1,436,522
OCT. 16	\$2,028,216	\$173,194	\$2,201,410
TOTAL	\$22,407,575	\$2,033,128	\$24,440,703

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
	TABMGTC	TAAGTC	SAVINGS (EXPENSE) (1 - 2)
_	TABINIO 1 O		(1-2)
NOV. 15	\$2,894,122	\$2,692,656	\$201,466
DEC. 15	\$2,924,625	\$2,728,447	\$196,178
JAN. 16	\$3,362,557	\$3,162,145	\$200,412
FEB. 16	\$2,771,392	\$2,574,686	\$196,706
MAR. 16	\$2,901,813	\$2,699,007	\$202,806
APR. 16	\$1,767,728	\$1,562,036	\$205,692
MAY 16	\$1,335,705	\$1,117,078	\$218,627
JUN. 16	\$1,602,194	\$1,370,629	\$231,565
JUL. 16	\$1,657,317	\$1,423,680	\$233,637
AUG. 16	\$1,706,374	\$1,472,407	\$233,967
SEP. 16	\$1,668,086	\$1,436,522	\$231,564
OCT. 16	\$2,435,273	\$2,201,410	\$233,863
TOTAL	\$27,027,186	\$24,440,703	\$2,586,483

PBR-TIF TARIFF SHEETS

PBR-TIF TEXAS GAS TARIFF SHEETS RATE NNS

Section 4.4 Currently Effective Rates - NNS Version 6.0.0

Fourth Revised Volume No. 1 Effective On: April 1, 2015

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.

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

Section 4.1 Currently Effective Rates - FT Version 7.0.0

Fourth Revised Volume No. 1 Effective On: April 1, 2015

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

Currently Effective Rates [1]

0.0794
0.1552
0.2120
0.2494
0.3142
0.1252
0.1820
0.2194
0.2842
0.1332
0.1705
0.2334
0.1181
0.1810
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.

Effective On: April 1, 2015

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 intrazone rates shall apply to intra-zone transportation, whether such intra-zone transportation is forward haul or backhaul.

PBR-TIF TEXAS GAS TARIFF SHEETS RATE STF

FERC NGA Gas Tariff
Fourth Revised Volume No. 1
Effective On: April 1, 2015

Currently Effective Maximum Transportation Rates (\$ per MMBtu) For Service under Rate Schedule STF

Peak (Winter)-Demand		Off-Peak (Summer)-Demand	
	Currently Effective Rates [1]	Currently Effective <u>Rates [1]</u>	
SL-SL	0.1188	0.0516	
SL-1	0.2322	0.1009	
SL-2	0.3172	0.1378	
SL-3	0.3731	0.1621	
SL-4	0.4701	0.2042	
1-1	0.1873	0.0814	
1-2	0.2723	0.1183	
1-3	0.3282	0.1426	
1-4	0.4252	0.1847	
2-2	0.1992	0.0866	
2-3	0.2551	0.1108	
2-4	0.3492	0.1517	
3-3	0.1766	0.0768	
3-4	0.2707	0.1177	
4-4	0.2056	0.0893	

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

Notes:

- The STF commodity rate is the applicable FT commodity rate in Section 4.1.

The STF overrun rate equals the daily demand rate plus applicable FT commodity rate.

Minimum rate: Demand \$-0- The minimum commodity rate is presented in Section 4.12.

PBR-TIF TENNESSEE TARIFF SHEETS RATE FT-A

Ninth Revised Sheet No. 14 Superseding Eighth Revised Sheet No. 14

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES RATE SCHEDULE FOR FT-A

Base Reservation Rates	RECEIP.	Г			DELIVER	Y ZONE			
	ZONE	0	L	1	2	3	4	5	6
	0 L	\$5.5411	\$4.9193	\$11.5794	\$15.5758	\$15.8514	\$17. 4175	\$18.4879	\$23.1959
	1 2	\$8.3417 \$15.5759	·	\$7.9962 \$10.5774	\$10.6413 \$5.5014	\$15.0745 \$5.1427	\$14.8460 \$6.5803	\$16.7429 \$9.0504	\$20.5878 \$11.6830
	3 4	\$15.8514 \$20.1259		\$8.3784 \$18.5544	\$5.5458 \$7.0708	\$4.0009 \$10.7456	\$6.1457 \$5.2598	\$11.1149 \$5.6884	\$12.8437 \$8.1265
	5 6	\$23.9973 \$27.7603		\$16,8625 \$19.3678	\$7,4172 \$13,3296	\$8.9748 \$14.6845	\$5.8432 \$10.3726	\$5.4810 \$5.4568	\$7.1353 \$4.7237
Daily Base Reservation Rate 1/	RECEIPT	г			DELIVER	Y ZONE			
	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 2 3 4	\$0.2742 \$0.5121 \$0.5211 \$0.6617		\$0.2629 \$0.3478 \$0.2755 \$0.6100	\$0.3499 \$0.1809 \$0.1823 \$0.2325	\$0.4956 \$0.1691 \$0.1315 \$0.3533	\$0.4881 \$0.2163 \$0.2021 \$0.1729	\$0.5505 \$0.2975 \$0.3654 \$0.1870	\$0.6769 \$0.3841 \$0.4223 \$0.2672
	5 6	\$0.7890 \$0.9127		\$0.5544 \$0.6367	\$0.2439 \$0.4382	\$0.2951 \$0.4828	\$0.1921 \$0.3410	\$0.1802 \$0.1794	\$0.2346 \$0.1553
Maximum Reservation Rates 2/, 3/	ı				DELIVER	Y ZONE			
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	0 L	\$5.5609	\$4.9391	\$11.5992	\$15.5956	\$15.87 1 2	\$17.4373	\$18.5077	\$23.2157
	1 2 3 4 5	\$8.3615 \$15.5957 \$15.8712 \$20.1457 \$24.0171	Ţ	\$8.0160 \$10.5972 \$8.3982 \$18.5742 \$16.8823	\$10.6611 \$5.5212 \$5.5656 \$7.0906 \$7.4370	\$15.0943 \$5.1625 \$4.0207 \$10.7654 \$8.9946	\$14.8658 \$6.6001 \$6.1655 \$5.2796 \$5.8630	\$16.7627 \$9.0702 \$11.1347 \$5.7082 \$5.5008	\$20.6076 \$11.7028 \$12.8635 \$8.1463 \$7.1551
	6	\$27.7801		\$19.3876	\$13.3494	\$14.7043	\$10.3924	\$5.4766	\$4.7435

Notes:

- Applicable to demand charge credits and secondary points under discounted rate agreements.

 Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of 2/
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0198.

Issued: September 25, 2015 Docket No. RP15-1293-000 Accepted: October 8, 2015 Effective: November 1, 2015

Eighth Revised Sheet No. 14
Superseding
Seventh Revised Sheet No. 14

RATES PER DEKATHERM

Base

FIRM TRANSPORTATION RATES RATE SCHEDULE FOR FT-A

Reservation Rates	DECET		DELIVERY ZONE									
	RECEI!		L	1	2	3	4	5	6			
	0 L	\$5.5411	\$4.9193	\$11.5794	\$15 <i>.</i> 5758	\$15.8514	\$17.4175	\$18.4879	\$23.1959			
	1 2 3 4 5 6	\$8.3417 \$15.5759 \$15.8514 \$20.1259 \$23,9973 \$27,7603	\$4.5153	\$7.9962 \$10.5774 \$8.3784 \$18.5544 \$16.8625 \$19.3678	\$10.6413 \$5.5014 \$5.5458 \$7.0708 \$7.4172 \$13.3296	\$5.1427 \$4.0009 \$10.7456		\$16.7429 \$9.0504 \$11.1149 \$5.6884 \$5.4810 \$5.4568	\$20.5878 \$11.6830 \$12.8437 \$8.1265 \$7.1353 \$4,7237			
Daily Base Reservation Rate 1/	DECEID	T 			DELIVE	RY ZONE						
	ZONE	0	L	1	2	3	4	5	6			
	0	\$0.1822	40 4647	\$0.3807	\$0.5121	\$0.5211	\$0.5726	\$0.6078	\$0.7626			
	1 2 3 4 5 6	\$0.2742 \$0.5121 \$0.5211 \$0.6617 \$0.7890 \$0.9127	\$0.1617	\$0.2629 \$0.3478 \$0.2755 \$0.6100 \$0.5544 \$0.6367	\$0.3499 \$0.1809 \$0.1823 \$0.2325 \$0.2439 \$0.4382	\$0.4956 \$0.1691 \$0.1315 \$0.3533 \$0.2951 \$0.4828	\$0.4881 \$0.2163 \$0.2021 \$0.1729 \$0.1921 \$0.3410	\$0.5505 \$0.2975 \$0.3654 \$0.1870 \$0.1802 \$0.1794	\$0.6769 \$0.3841 \$0.4223 \$0.2672 \$0.2346 \$0.1553			
Maximum Reservation Rates 2/, 3/	RECEIPT				DELIVER'	Y ZONE						
1	ZONE	0	L	1	2	3	4	5	6			
	3 4 5	\$5.5814 \$8.3820 \$15.6162 \$15.8917 \$20.1662 \$24.0376 \$27,8006	\$4.9596	\$11.6197 \$8.0365 \$10.6177 \$8.4187 \$18.5947 \$16.9028 \$19,4081	\$15.6161 \$10.6816 \$5.5417 \$5.5861 \$7.1111 \$7.4575 \$13.3699	\$15.8917 \$15.1148 \$5.1830 \$4.0412 \$10.7859 \$9.0151 \$14.7248	\$17.4578 \$14.8863 \$6.6206 \$5.1860 \$5.3001 \$5.8835 \$10.4129	\$18.5282 \$16.7832 \$9.0907 \$11.1552 \$5.7287 \$5.5213 \$5.4971	\$23.2362 \$20.6281 \$11.7233 \$12.8840 \$8.1668 \$7.1756 \$4.7640			

Notes:

Issued: September 15, 2015 Effective: November 1, 2015

^{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 \$0.0403.

Twelveth Revised Sheet No. 15
Superseding
Eleventh Revised Sheet No. 15

RATES PER DEKATHERM

COMMODITY RATES RATE SCHEDULE FOR FT-A

Base Commodity Rates				[DELIVERY ZO	NE			
	RECEIPT ZONE	 0	L	1	2	3	4	5	6
	0 L	\$0.0032	\$0.0012	\$0.0115	\$0.0177	\$0.0219	\$0.2668	\$0.2546	\$0.3030
	1	\$0.0042	40.0012	\$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/		_			DELIVERY ZO	NE			
		·							
	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 6	\$0.0284 \$0.0346		\$0.0256 \$0.0300	\$0.0100 \$0.0143	\$0.0118 \$0.0163	\$0.0046 \$0.0086	\$0.0046 \$0.0041	\$0.0066 \$0.0020
		,		·	•	·	•	,	•
Maximum Commodity Rates 1/, 2/, 3/				٦	ELIVERY ZO	NE			
	RECEIPT								
	ZONE	0	L	1	2	3	4	5	6
	0	\$0.0039		\$0.0122	\$0.0184	\$0.0226	\$0.2675	\$0.25 5 3	\$0.3037
	L		\$0.0019						
	1	\$0.0049		\$0.0088	\$0.0154	\$0.0186	\$0.2276	\$0.2320	\$0.2648
	2	\$0.0174		\$0.0094	\$0.0019	\$0.0035	\$0.0741	\$0.1185	\$0.1312
	3	\$0.0214		\$0.0176	\$0.0033	\$0.0009	\$0.0989	\$0.1365	\$0.1489
	4	\$0.0257		\$0.0212	\$0.0094	\$0.0112	\$0.0461	\$0.0649	\$0.1048
	5	\$0.0291		\$0.0263	\$0.0107	\$0.0125	\$0.0646	\$0.0640	\$0.0794
	6	\$0.0353		\$0.0307	\$0.0150	\$0.0170	\$0.0991	\$0.0540	\$0,0331

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 \$0.0007.

Issued: September 25, 2015 Docket No. RP15-1293-000 Effective: November 1, 2015 Accepted: October 8, 2015

Eleventh Revised Sheet No. 15 Superseding Tenth Revised Sheet No. 15

RATES PER DEKATHERM

COMMODITY RATES RATE SCHEDULE FOR FT-A

Base Commodity Rates					DELIVERY Z	ONE			
	RECEIP ZONE	T 0	L	1	2	3	4	5	6
	0 L	\$0.0032	\$0.0012	\$0.0115	\$0.0177	\$0.0219	\$0.2668	\$0.2546	\$0. 3030
	1 2 3 4 5	\$0.0042 \$0.0167 \$0.0207 \$0.0250 \$0.0284 \$0.0346	1,5100-12	\$0.0081 \$0.0087 \$0.0169 \$0.0205 \$0.0256 \$0.0300	\$0.0147 \$0.0012 \$0.0026 \$0.0087 \$0.0100 \$0.0143	\$0.0179 \$0.0028 \$0.0002 \$0.0105 \$0.0118 \$0.0163	\$0.2269 \$0.0734 \$0.0982 \$0.0454 \$0.0639 \$0.0984	\$0.2313 \$0.1178 \$0.1358 \$0.0642 \$0.0633 \$0.0533	\$0.2641 \$0.1305 \$0.1482 \$0.1041 \$0.0787 \$0.0324
Minimum Commodity Rates 1/, 2/	DECEMP				DELIVERY ZO	NE			
	RECEIPT ZONE	0	L	1	2	3	. 4	5	6
	0 L	\$0.0032	\$0.0012	\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
	1 2 3 4 5 6	\$0.0042 \$0.0167 \$0.0207 \$0.0250 \$0.0284 \$0.0346	,	\$0.0081 \$0.0087 \$0.0169 \$0.0205 \$0.0256 \$0.0300	\$0.0147 \$0.0012 \$0.0026 \$0.0087 \$0.0100 \$0.0143	\$0.0179 \$0.0028 \$0.0002 \$0.0105 \$0.0118 \$0.0163	\$0.0210 \$0.0056 \$0.0081 \$0.0028 \$0.0046 \$0.0086	\$0.0256 \$0.0100 \$0.0118 \$0.0046 \$0.0041	\$0.0300 \$0.0143 \$0.0163 \$0.0092 \$0.0066 \$0.0020
Maximum Commodity Rates 1/, 2/, 3/	RECEIPT-			D	ELIVERY ZO	NE			
	ZONE	0	L	1	2	3	4	5	6
	2	\$0.0047 \$0.0057 \$0.0182 \$0.0222	\$0.0027	\$0.0130 \$0.0096 \$0.0102 \$0.0184	\$0.0192 \$0.0162 \$0.0027 \$0.0041	\$0.0234 \$0.0194 \$0.0043 \$0.0017	\$0.2683 \$0.2284 \$0.0749 \$0.0997	\$0.2561 \$0.2328 \$0.1193 \$0.1373	\$0.3045 \$0.2656 \$0.1320 \$0.1497
1	4 5	\$0.0222 \$0.0265 \$0.0299 \$0.0361		\$0.0220 \$0.0271 \$0.0315	\$0.0102 \$0.0115 \$0.0158	\$0.0170 \$0.0133 \$0.0178	\$0.0469 \$0.0654 \$0. 0999	\$0.0657 \$0.0648 \$0.0548	\$0.1056 \$0.0802 \$0.0339

Notes:

- 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. 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.
- Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0015.

Issued: September 15, 2015 Effective: November 1, 2015 Docket No. RP15-990-001 Accepted:

FUEL AND EPCR ______

F&LR 1/, 2/, 3/, 4/	RECEIPT		DELIVERY ZONE										
	ZONE	0	L	1	2	3	4	5	6				
	0	0.35%	0.18%	1.05%	1.56%	1.91%	2.28%	2.57%	3.05%				
	1	0.44%	0120 70	0.77%	1.32%	1.58%	1.93%	2.34%	2.66%				
	2 3	1.56% 1.91%		0.82% 1.58%	0.18% 0.32%	0.32% 0.10%	0.58% 0.80%	0.97% 1.14%	1.30% 1.50%				
	4	2.28%		1.80%	0.81%	0.97%	0.33%	0.50%	0.85%				
	5	2.64%		2.3 9 %	0.97%	1.15%	0.49%	0.49%	0.62%				

2.66%

1.31%

1.50%

0.80%

0.39%

0.21%

EPCR 3/, 4/	DECEME		DELIVERY ZONE										
***************************************	RECEIPT ZONE		L	1	2	3	4	5	6				
	0 L	\$0.0025	\$0.0008	\$0.0095	\$0.0147	\$0.0183	\$0.0221	\$0.0251	\$0.0301				
	1	\$0.0033	4 -1	\$0.0067	\$0.0122	\$0.0149	\$0.0185	\$0.0227	\$0.0260				
	2	\$0.0147		\$0.0072	\$0.0008	\$0.0022	\$0.0048	\$0.0087	\$0.0120				
	3	\$0.0183		\$0.0149	\$0.0022	\$0.0000	\$0.0070	\$0.0104	\$0.0138				
	4	\$0.0221		\$0.0171	\$0.0071	\$0.0086	\$0.0023	\$0.0040	\$0.0075				
	5	\$0.0251		\$0.0227	\$0.0087	\$0.0104	\$0.003 9	\$0.0039	\$0.0052				
	6	\$0.0301		\$0.0260	\$0.0120	\$0.0138	\$0.0070	\$0.0029	\$0.0011				

3.14%

Issued: February 29, 2016 Docket No. RP16-658-000 Effective: April 1, 2016 Accepted: March 22, 2016

^{1/} Included in the above F&LR is the Losses component of the F&LR equal to 0.05%.

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 0.05%. The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT. 2/

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 L	0.48%	0.35%	1.05%	1.46%	1.75%	2.05%	2.29%	2.68%				
	1	0.55%		0.82%	1.26%	1.48%	1.77%	2.09%	2.36%				
	2 3	1.46% 1.75%		0.86% 1.48%	0.34% 0.46%	0.46% 0.28%	0.67% 0.85%	0.99% 1.12%	1.26% 1.41%				
	4	2.05%		1.65%	0.86%	0.98%	0.47%	0.60%	0.88%				
	5 6	2.33% 2.74%		2.09% 2.36%	0.99% 1.26%	1,13% 1,41%	0.60% 0.84%	0.59% 0.52%	0.70% 0.37%				

EPCR 3/, 4/	DECEM		DELIVERY ZONE										
	RECEIPT ZONE	0	L	1	2	3	4	5	6				
	0	\$0.0049	\$0.0016	\$0.0189	\$0.0292	\$0.0363	\$0.0439	\$0.0499	\$0.0599				
	1	\$0.0066	40.0010	\$0.0132	\$0.0242	\$0.0296	\$0.0368	\$0.0451	\$0.0518				
	2	\$0.0292		\$0.0142	\$0.0015	\$0.0043	\$0.0095	\$0.0174	\$0.0238				
	3	\$0.0363		\$0.0296	\$0.0043	\$0.0000	\$0.0139	\$0.0206	\$0.0275				
	4	\$0.0439		\$0.0340	\$0.0141	\$0.0172	\$0.0045	\$0.0079	\$0.0148				
	5	\$0.0499		\$0.0451	\$0.0174	\$0.0206	\$0.0078	\$0.0077	\$0.0103				
	6	\$0.0599		\$0.0518	\$0.0238	\$0.0275	\$0.0138	\$0.0058	\$0.0021				

Issued: August 3, 2015 Docket No. RP15-1177-000 Effective: September 1, 2015 Accepted: August 25, 2015

Included in the above F&LR is the Losses component of the F&LR equal to 0.26%.
 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 0.26%.

The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT.
 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, 2015

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, D.C. 20426

FY 2015 GAS ANNUAL CHARGES CORRECTION FOR ANNUAL CHARGES UNIT CHARGE June 25, 2015

The annual charges unit charge (ACA) to be applied to in fiscal year 2016 for recovery of FY 2015 Current year and 2014 True-Up is \$0.0014 per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2015.

The following calculations were used to determine the FY 2015 unit charge:

2015 CURRENT:

Estimated Program Cost \$61,912,000 divided by 44,605,342,976 Dth = 0.0013879952

2014 TRUE-UP:

Debit/Credit Cost (\$643,382) divided by 42,469,337,988 Dth = (0.0000151493)

TOTAL UNIT CHARGE = 0.0013728458

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

FERC ACA UNIT CHARGE EFFECTIVE OCTOBER 1, 2016

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, D.C. 20426

FY 2016 GAS ANNUAL CHARGES CORRECTION FOR ANNUAL CHARGES UNIT CHARGE June 24, 2016

The annual charges unit charge (ACA) to be applied to in fiscal year 2017 for recovery of FY 2016 Current year and 2015 True-Up is \$0.0013 per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2016.

The following calculations were used to determine the FY 2016 unit charge:

2016 CURRENT:

Estimated Program Cost \$60,356,000 divided by 46,470,081,828 Dth = 0.0012988142

2015 TRUE-UP:

Debit/Credit Cost (\$892,042) divided by 44,588,799,565 Dth = (0.0000200060)

TOTAL UNIT CHARGE = 0.0012788082

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

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		Ol	JT OF POCKET COST	S ("OOPC")		NET
	SALES REVENUE	GAS	TRANSPORT	STORAGE	OTHER	TOTAL	REVENUE ("NR")
_	("OSREV")	COSTS ("GC")	COSTS ("TC")	COSTS ("SC")	COSTS	OOPC	(1 - 6)
NOV. 15	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DEC. 15	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JAN. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FEB. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAR. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
APR. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAY 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JUN. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JUL. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AUG. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEP. 16	\$183,900	\$165,600	\$0	\$0	\$0	\$165,600	\$18,300
OCT. 16	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS	\$183,900	\$165,600	\$0	\$0	\$0	\$165,600	\$18,300

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 0	Sas Supply Cost Pe	erformance-Base			Benchmarke	d Gas Costs	PTAGSC
			Demand/C	•			
			Alloc Demand	Commodity			(Col. 3 / 6)
Gas Acquisition In	dex Factor		Demand		Actual Gas Costs		(001: 070)
GAIF							
Demand	\$0		0.00%				
Commodity	<u>\$1,247,474</u>			32.38%			
Total		\$1,247,474			AGC	\$72,317,573	
Transportation Ind	ex Factor				Actual Transporta	tion Costs	
TIF .							
Demand	\$2,409,158		62.54%				
Commodity	<u>\$177,325</u>			4.60%			
Total		\$2,586,483			TAAGTC	\$24,440,703	
Off-System Sales	Index Factor						
OSSIF							
Demand	\$0						
Commodity	\$18,300			0.48%			
Total		\$18,300					
Total All PBR Fact	ore				Total Actual Gas	Supply Costs	
Demand	\$2,409,158				Total Notical Gas	Supply Costs	
Commodity	\$1,443,099						
							
TPBRR		\$3,852,257	62.54%	37.46%	TAGSC	\$96,758,276	3.98%

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 50/50 Company/Customer Sharing	\$2,902,748	25%	75%	\$2,177,061	\$725,687	\$2,902,748
in Excess of 3.0% of TAGSC	\$949,509	50%	50%	\$474,755	\$474,754	\$949,509
	\$3,852,257		=	\$2,651,816	\$1,200,441	\$3,852,257
Portion of Company Savings Attributable to De Portion of Company Savings Attributable to Co		62.54% 37.46%			\$750, 75 6 \$449,685	
Total Company Portion of Savings		100.00%		CSPBR	\$1,200,441	