RECEIVED

Activity Under LG&E's Performance-Based Ratemaking ("PBR") Mechanism 3 2017 for the PBR Period for the 12 Months Ended October 31, 2016

PUBLIC SERVICE

Attached is a summary of LG&E's activity and the supporting documentation for the MBRSION 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	<i>\$0</i>	\$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	<i>\$0</i>	<i>\$163,354</i>
Mar.	\$45,628	\$202,806	\$0	<i>\$248,434</i>
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	<i>\$0</i>	\$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"

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

 $pbr_annual_report_psc_4\ 2016.doc$

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

LOUISVILLE GAS AND ELECTRIC COMPANY GAIF - CALCULATION OF BGC

Column 1 2 3 4 5 6 7 8 9 10 11 12 13

										ALLOCATION OF A	APV ACCORDING TO S	SZFQE%	
	APV	APV	APV		APV			ÁPV - PEFDCQ=	TGT ZONE SL	TGT ZONE 1	TGT ZONE 4	TGPL ZONE 0	TGPL ZONE 1
		TRANSPORTED	TRANSPORTED	APV	TRANSPORTED	TOTAL APV FOR		TOTAL APV FOR	0.00%	48.43%	41.98%	9.59%	0.00%
	UNDER	UNDER	UNDER	TRANSPORTED	UNDER OTHER	SYSTEM SUPPLY	TGT OR TGPL	SYSTEM SUPPLY	0.09%	22.77%	61.71%	15.43%	0.00%
	TGT RATE NNS	TGT RATE FT	TGT RATE STF	UNDER TGPL FT-A	CAPACITY	(1+2+3+4+5)	PEFDCQ	(6-7)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)
Nov 15	1,707,230	305,460	0	608,880	0	2,621,570	0	2,621,570	0	1,269,626	1,100,535	251,409	0
Dec 15		95,642	Ö	311,184	Ö	1,169,484	ŏ	1,169,484	ŏ	566,381	490,949	112,154	Ď
Jan 16		235,642	652,752	625,574	410,000	2,852,531	ō	2,852,531	Ö	1,381,481	1,197,492	273,558	Ď
Feb 16		185,278	0	405,920	490,000	2,267,150	0	2,267,150	0	1,097,981	951,749	217,420	ŏ
Mar 16		314,807	0	223,256	. 0	1,578,253	0	1,578,253	0	764,348	662,551	151,354	o o
Apr 16		0	Ō	0	Ö	1,021,516	Ö	1,021,516	919	232,599	630,378	157,620	ŏ
May 16		310,640	66,000	0	0	1,632,500	0	1,632,500	1,469	371,720	1,007,416	251,895	Ō
Jun 16		309,460	549,840	609,480	299,976	2,445,946	0	2,445,946	2,201	556,942	1,509,393	377,410	ō
Jul 16	774,033	961,456	561,339	629,796	620,000	3,546,624	0	3,548,624	3,192	807,566	2,188,622	547,244	0
Aug 16	1,319,739	935,642	568,168	629,796	620,000	4,073,345	0	4,073,345	3,666	927,501	2,513,661	628,517	0
Sep 16	1,217,190	905,460	549,840	609,480	600,000	3,881,970	0	3,881,970	3,494	883,924	2,395,564	598,988	0
Oct 16	981,350	934,368	565,927	629,796	620,000	3,731,441	0	3,731,441	3,358	849,649	2,302,672	575,762	0
Total	12,871,471	5,493,855	3,513,866	5,283,162	3,659,976	30,822,330	0	30,822,330	, 18,299	9,709,718	16,950,982	4,143,331	0
Column	14	15	16	17	18	19	20	21	22	23	24	25	
		APV x SAI		APV x SAI		APV x SAI		APV x SAI		APV x SAI		TOTAL	
	SAI	TGT-SL	SAI	TGT-Z1	SAI	TGT-Z4	SAI	TGPL-Z0	SAI	TGPL-Z1		BMGCC	
	TGT-SL	(9X14)	TGT-Z1	(10X16)	TGT-Z4	(11X18)	TGPL-Z0	(12X20)	TGPL-Z1	(13X22)	DAI	(15+17+19+21+23+24)	
Nov 15	\$2.0036	\$0	\$1,9943	\$2,532,015	\$2.0475	\$2,253,345	\$1,9819	\$498,267	\$2,0062	\$0	\$0	\$5,283,627	
Dec 15	\$1,9080	\$0	\$1.8947	\$1,073,122	\$1.9745	\$969,379	\$1,8907	\$212,050	\$1.9081	\$0	\$0	\$2,254,551	
Jan 16	\$2,2750	\$0	\$2,2680	\$3,133,199	\$2,3648	\$2,831,829	\$2.2446	\$614,028	\$2.2769	\$0	\$0	\$6,579,056	
Feb 16	\$1,9995	\$0	\$1.9904	\$2,185,421	\$2.0162	\$1,918,916	\$1.9755	\$429,513	\$2.0058	\$0	\$0	\$4,533,850	
Mar 16		\$0	\$1.6317	\$1,247,187	\$1,6343	\$1,082,807	\$1.6408	\$248,342	\$1.6580	\$0	\$0	\$2,578,336	
Apr 16		\$1,681	\$1.8189	\$423,074	\$1.8098	\$1,140,858	\$1.7992	\$283,590	\$1.8296	\$0	\$0	\$1,849,203	
May 16		\$2,715	\$1.8478	\$686,864	\$1.8579	\$1,871,678	\$1.8336	\$461,875	\$1.8605	\$0	\$0	\$3,023,132	
Jun 16		\$4,925	\$2.2326	\$1,243,429	\$2.2197	\$3,350,400	\$2.2175	\$838,907	\$2.2581	\$0	\$0	\$5,435,661	
Jul 16		\$8,803	\$2.7440	\$2,215,961	\$2.7370	\$5,990,258	\$2.7115	\$1,483,852	\$2.7760	\$0	\$0	\$9,698,874	
Aug 16		\$9,761	\$2.6501	\$2,457,970	\$2.6447	\$6,647,879	\$2,6258	\$1,650,360	\$2.6793	\$0	\$0	\$10,765,970	
Sep 16		\$9,947	\$2.8276	\$2,499,384	\$2.8290	\$6,777,051	\$2.8269	\$1,693,279	\$2.8674	\$0	\$0	\$10,979,661	
Oct 16	\$2,8235	\$9,481	\$2.8263	\$2,401,363	\$2.8270	\$6,509,654	\$2.8877	\$1,662,628	\$2.8757	\$0	\$0	\$10,583,126	
Total		\$47,313		\$22,098,989		\$41,344,054		\$10,074,691		\$0	\$0	\$73,565,047	

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 TRANSPORTED UNDER LG&E'S TGT RATE NNS	COST OF GAS TRANSPORTED UNDER LG&E'S RATE NNS	APV TRANSPORTED UNDER LG&E'S TGT RATE FT	COST OF GAS TRANSPORTED UNDER LG&E'S TGT RATE FT	APV TRANSPORTED UNDER LG&E'S TGT RATE STF	COST OF GAS TRANSPORTED UNDER LG&E'S TGT RATE STF	TRANSPORTED UNDER LG&E'S TGPL RATE FT-A	TRANSPORTED UNDER LG&E'S TGPL RATE FT-A	APV TRANSPORTED UNDER OTHER CAPACITY	COST OF GAS TRANSPORTED UNDER OTHER CAPACITY
_	TOTTOTIE	TOTILITIES	1011011211	TOTIONIETT	TOTICALEGII	<u> 1011MILOII</u>			CAFACITY	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	625,574	\$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	Ô	\$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) \$5,132,413 Nov 15 Dec 15 \$2,353,899 \$6,374,458 \$4,567,202 Jan 16 Feb 16 Mar 16 \$2,532,708 \$1,845,062 \$3,030,095 Apr 16 May 16 \$4,812,487 Jun 16

Total \$72,317,573

Jul 16 Aug 16 Sep 16

Oct 16

\$9,721,897 \$10,595,529

\$10,831,870

\$10,519,953

PBR-GAIF CALCULATION OF SAVINGS AND/OR EXPENSES

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

Column	1	2	3
	BGC FROM COL. 25	AGC FROM COL. 11	SAVINGS/ (EXPENSES) (1 - 2)
Nov 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)

	NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE	PLATTS GAS DAILY AVERAGE LOUISIANA/ SOUTHEAST, TX. GAS, ZONE SL	PLATTS INSIDE FERC's GAS MARKET REPORT LOUISIANA/SOUTHEAST TEXAS GAS, ZONE SL	AVERAGE
Nov. 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		NATURAL	
	GAS WEEK		GAS WEEK	
	LOUISIANA, GULF	MONTHLY	LOUISIANA, GULF	MONTHLY
	COAST, ONSHORE	AVERAGE	COAST, ONSHORE	AVERAGE
11/02/2	015 \$2.0000		05/02/2016 \$1.8600	
11/02/2			05/09/2016 \$1.7900	
11/16/2			05/16/2016 \$1.7900	
11/10/2			05/10/2016 \$1.7600	
11/23/2		\$2.0200	05/30/2016 \$1.8200	64.00
11/30/2	015 \$1.9900	Φ2.0200	05/50/2016 \$1.6200	\$1.83
12/07/2	015 \$2.0800		06/06/2016 \$2.1400	
12/14/2	015 \$1.7900		06/13/2016 \$2.3400	
12/21/2	015 \$1.6700		06/20/2016 \$2.5500	
12/28/2	015 \$1.5000	\$1.7600	06/27/2016 \$2.6400	\$2.4175
04/04/0	040		07/04/0040	
01/04/2	•		07/04/2016 \$2.7900	
01/11/2	•		07/11/2016 \$2.7500	
01/18/2	•	A 0.0575	07/18/2016 \$2.6600	
01/25/2	016 \$2.1600	\$2.2575	07/25/2016 \$2.7300	\$2.7325
02/01/2	016 \$2.1300		08/01/2016 \$2.7200	
02/08/2	016 \$2.0500		08/08/2016 \$2.7900	
02/15/2	016 \$2.0300		08/15/2016 \$2.6400	
02/22/2	016 \$1.8300		08/22/2016 \$2.6200	
02/29/2	016 \$1.6600	\$1.9400	08/29/2016 \$2.7700	\$2.7080
00/07/0	040		00/05/0040	
03/07/20	•		09/05/2016 \$2.8200	
03/14/20	•		09/12/2016 \$2.8000	
03/21/20	•	#4.0505	09/19/2016 \$2.9300	A
03/28/2	016 \$1.7100	\$1.6525	09/26/2016 \$3.0200	\$2.8925
04/04/2	016 \$1.8100		10/03/2016 \$2.8400	
04/11/2			10/10/2016 \$2.8800	
04/18/20	016 \$1.7200		10/17/2016 \$3.0700	
04/25/20	•	\$1.8225	10/24/2016 \$2.8300	
			10/31/2016 \$2.6100	\$2.8460

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

ł		VEMBER 2015	D	ECEMBER 2015	J	ANUARY 2016		FE	BRUARY 2016	MAR 201			APRIL 2016
DAY	M	IDPOINT		MIDPOINT		MIDPOINT	DAY	N	IDPOINT	MIDI	POINT		MIDPOINT
1	\$	1.9100	\$	2.0600	\$	2.2600	1			\$ 1	.5300	\$	1.8600
2	\$	1.9100	\$		\$	2.2600	2					\$	1.8000
	\$	1.8500	\$		\$	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	\$	-	\$		\$	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
	\$	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
	\$	-	\$	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
	\$	2.1700	\$	1.6400	\$	2.0950	21					\$	1.8900
	\$	2.1700	\$	1.7000			22						
	\$	2.1700	\$	1.6500	\$	2.1500	23					\$	1.8500
	\$	2.1200	\$	1.5100	\$	2.1500	24	\$	1.7500			\$	1.8500
	\$	2.0800	\$		\$	2.1500	25	\$	1.7200	\$ 1	.6650	\$	1.8500
	\$	1.9700	\$		\$	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			\$.6650	\$	1.8600
29	\$	1.9700	\$	2.0600	\$	2.0500	29					\$	1.8600
	\$	1.9700	\$		\$	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	AUGUST 2016	SEPTEMBER 2016	OCTOBER 2016
DAY MIDPOINT	MIDPOINT	MIDPOINT	DAY MIDPOINT	MIDPOINT	MIDPOINT
1 \$ 1.8200 2 \$ 1.8200	\$ 2.0400 \$ 2.2100	\$ 2.7750 \$ 2.7800	1 \$ 2.8200 2 \$ 2.7900	\$ 2.7650 \$ 2.7600	\$ 2.7050 \$ 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)

		PLATTS	PLATTS	
	NATURAL	GAS DAILY AVERAGE	INSIDE FERC's	
	GAS WEEK	LOUISIANA/	GAS MARKET REPORT	
	LOUISIANA	SOUTHEAST,	LOUISIANA/SOUTHEAST	
	NORTH	TX. GAS, ZONE 1	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 GAS WEEK LOUISIANA	MONTHLY	NATUR GAS WEI LOUISIAN	EK IA MONTHLY
	NORTH	AVERAGE	NORT	'H AVERAGE
11/02/2015	\$1.9700		05/02/2016 \$1.85	20
11/09/2015	\$2.0500		05/09/2016 \$1.79	
11/16/2015	\$1.9900		05/16/2016 \$1.88	
11/23/2015	\$2.1200		05/23/2016 \$1.74	
11/30/2015	\$1.9700	\$2.0200	05/30/2016 \$1.83	
11/30/2013	Ψ1.5700	Ψ2.0200	03/30/2010 \$1.03	JO \$1.02
12/07/2015	\$2.0700		06/06/2016 \$2.10	00
12/14/2015	\$1.8200		06/13/2016 \$2.34	
12/21/2015	\$1.6500		06/20/2016 \$2.51	
12/28/2015	\$1.4500	\$1.7475	06/27/2016 \$2.61	
	•	·	· ·	• • • • • • • • • • • • • • • • • • • •
01/04/2016	\$2.2900		07/04/2016 \$2.74	00
01/11/2016	\$2.3900		07/11/2016 \$2.69	
01/18/2016	\$2.2200		07/18/2016 \$2.63	
01/25/2016	\$2.1500	\$2.2625	07/25/2016 \$2.75	
			·	,
02/01/2016	\$2.1200		08/01/2016 \$2.69	00
02/08/2016	\$2.0200		08/08/2016 \$2.770	
02/15/2016	\$2.0200		08/15/2016 \$2.620	
02/22/2016	\$1.8800		08/22/2016 \$2.580	00
02/29/2016	\$1.6400	\$1.9360	08/29/2016 \$2.770	00 \$2.6860
				•
03/07/2016	\$1.4600		09/05/2016 \$2.800	00
03/14/2016	\$1.6100		09/12/2016 \$2.760	00
03/21/2016	\$1.7900		09/19/2016 \$2.860	00
03/28/2016	\$1.6700	\$1.6325	09/26/2016 \$3.000	00 \$2.8550
04/04/2016	\$1.8000		10/03/2016 \$2.800	00
04/11/2016	\$1.8700		10/10/2016 \$2.820	00
04/18/2016	\$1.7100		10/17/2016 \$2.980	00
04/25/2016	\$1.8400	\$1.8050	10/24/2016 \$2.870	00
			10/31/2016 \$2.570	00 \$2.8080

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

1	NOVEMBER 2015	DI	ECEMBER 2015	J	ANUARY 2016		FE	EBRUARY 2016	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 \$		\$	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 \$		\$	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	7	\$	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 \$		\$	1.5850	\$	2.1550	16	\$	1.9850	\$ 1.7150	\$	1.6150
17 \$		\$	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 \$		\$	1.6800	\$	2.1550	22	\$	1.7300	\$ 1.7200	\$	1.8750
23 \$		\$	1.6550	\$	2.1450	23	\$	1.7450	\$ 1.7100	\$	1.8550
24 \$		\$	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 \$		\$	1.4350	\$	2.0850	26		1.7000	\$ 1.6650	\$	1.8900
27 \$		\$	1.4350	\$	2.1900	27		1.5950	\$ 1.6650	\$	1.8300
28 \$		\$	1.4350	\$	2.1750	28		1.5950	\$ 1.6650	\$	1.8700
29 \$		\$	2.0650	\$	2.0550	29	\$	1.5950	\$ 1.6850	\$	1.8550
30 \$		\$	2.3350	\$	2.0550	30	•	*****	\$ 1.7150	\$	1.8550
31		\$	2.2100	\$	2.0550	31			\$ 1.8000	•	1.0000
OTAL \$	60.3850	\$	56.0000	\$	68.8700	TOTAL	\$	54.9600	\$ 50.6100	\$	54.6550
OSTINGS	30		31		31	POSTINGS		29	31		30
VERAGE \$	2.0128	\$	1.8065	\$	2.2216	AVERAGE	\$	1.8952	\$ 1.6326	\$	1.8218

POSTINGS 31 AVERAGE \$ 1.8255	\$ 56.59	MAY 2016 DAY MIDPOINT 1 \$ 1.8250 2 \$ 1.8250 3 \$ 1.8250 5 \$ 1.9400 6 \$ 1.9200 7 \$ 1.7500 10 \$ 1.8900 11 \$ 1.9350 12 \$ 1.8750 16 \$ 1.8750 16 \$ 1.8750 17 \$ 1.8400 18 \$ 1.8750 19 \$ 1.8100 20 \$ 1.8100 20 \$ 1.8100 21 \$ 1.8100 22 \$ 1.7150 23 \$ 1.7150 24 \$ 1.8850 25 \$ 1.8400 26 \$ 1.7150 27 \$ 1.8400 28 \$ 1.8400 29 \$ 1.8400 30 \$ 1.8400 31 \$ 1.8400 31 \$ 1.8400
30 \$ 2.4378	\$ 73.1350	JUNE 2016 MIDPOINT \$ 2,0400 \$ 2,2150 \$ 2,2150 \$ 2,1750 \$ 2,1750 \$ 2,1750 \$ 2,2450 \$ 2,2450 \$ 2,2450 \$ 2,3600 \$ 2,3600 \$ 2,4900 \$ 2,4900 \$ 2,5050
\$ 2.6894	\$ 83.3700	JULY 2016 MIDPOINT \$ 2.7750 \$ 2.7400 \$ 2.7400 \$ 2.7400 \$ 2.7550 \$ 2.6550 \$ 2.6550 \$ 2.6650 \$ 2.7250 \$ 2.7250 \$ 2.5850 \$ 2.5850 \$ 2.5850 \$ 2.5850 \$ 2.7300
POSTINGS 31 AVERAGE \$ 2.6842	\$ 83.210	AUGUST 2016 DAY MIDPOINT 1 \$ 2.8150 2 \$ 2.7900 3 \$ 2.6900 4 \$ 2.7350 6 \$ 2.7350 7 \$ 2.7350 9 \$ 2.7350 11 \$ 2.6500 11 \$ 2.6500 11 \$ 2.5550 12 \$ 2.5850 13 \$ 2.5850 14 \$ 2.5850 15 \$ 2.5850 16 \$ 2.5850 17 \$ 2.5850 18 \$ 2.5850 19 \$ 2.5950 20 \$ 2.5550 21 \$ 2.5550 22 \$ 2.5550 23 \$ 2.5550 24 \$ 2.5550 25 \$ 2.7150 26 \$ 2.7850 27 \$ 2.7850 28 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850 29 \$ 2.7850
30 \$ 2.8677	\$ 86.0300	SEPTEMBER 2016 MIDPOINT \$ 2.8150 \$ 2.7450 \$ 2.7450 \$ 2.7450 \$ 2.7450 \$ 2.7450 \$ 2.7450 \$ 2.8200 \$ 2.8200 \$ 2.8200 \$ 2.8200 \$ 2.8200 \$ 2.8200 \$ 2.8300 \$ 2.8400 \$ 2.8400 \$ 2.8400 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.9550 \$ 2.8400
31 \$ 2.8108	\$ 87.1350	OCTOBER 2016 MIDPOINT \$ 2.6750 \$ 2.6750 \$ 2.7400 \$ 2.7400 \$ 2.7400 \$ 2.8400 \$ 2.8400 \$ 2.8400 \$ 3.0360 \$ 3.0450 \$ 3.0450 \$ 2.9700 \$ 2.9700 \$ 2.9700 \$ 2.9700 \$ 2.9750 \$ 2.9750 \$ 2.9750 \$ 2.7450 \$ 2.7450 \$ 2.5550 \$ 2.5550 \$ 2.5550

PBR-GAIF INDICES TEXAS GAS – ZONE 4

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

			PLATTS	
	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			NATURAL	
	GAS WEEK			GAS WEEK	
	APPALACHIA	MONTHLY		APPALACHIA	MONTHLY
	LEBANON HUB	AVERAGE		LEBANON HUB	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
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		10/03/2016	\$2.7300	
04/11/2016	\$1.8600		10/10/2016	\$2.7900	
04/18/2016	\$1.6800		10/17/2016	\$2.9500	
04/25/2016	\$1.8400	\$1.7925	10/24/2016	\$2.9500	
			10/31/2016	\$2.6100	\$2.8060

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

1	NOVEMBER 2015	DE	CEMBER 2015	J.	ANUARY 2016		FE	BRUARY 2016	MARCH 2016		APRIL 2016
DAY	MIDPOINT		MIDPOINT	. \square	MIDPOINT	DAY		MIDPOINT	MIDPOINT		MIDPOINT
1 \$	1.9200	\$	2.1200	\$	2.3400	1	\$	2.2450	\$ 1.5300	\$	1.8750
2 \$		\$	2.1850	\$	2.3400	2	\$	2.1350	\$ 1.5500	\$	1.8250
3 \$	1.8600	\$	2.1750	\$	2.3400	3	\$	2.0100	\$ 1.6150	\$	1.8250
4 \$	1.8800	\$	2.1100	\$	2.3400	4	\$	2.0350	\$ 1.5350	\$	1.8250
5 \$	2.0450	\$	2.0650	\$	2.4200	5	\$	2.0150	\$ 1.4250	\$	1.8500
6 \$	2.1200	\$	2.0650	\$	2.3050	6	\$	2.0300	\$ 1.4250	\$	1.8350
7 \$	2.0900	\$	2.0650	\$	2.3450	7	\$	2.0300	\$ 1.4250	\$	1.8150
8 \$	2.0900	\$	2.0050	\$	2.3450	8	\$	2.0300	\$ 1.4550	\$	1.8700
9 \$	2.0900	\$	1.9300	\$	2.5150	9	\$	2.2000	\$ 1.4650	\$	1.8600
10 \$	2.0500	\$	1.9600	\$	2.5150	10	\$	2.1500	\$ 1.5000	\$	1.8600
11 \$	2.0650	\$	1.8800	\$	2.5150	11	\$	2.0900	\$ 1.6150	\$	1.8600
12 \$	2.0750	\$	1.7100	\$	2.5100	12	\$	2.0900	\$ 1.6450	\$	1.8200
13 \$	1.9650	\$	1.7100	\$	2.3450	13	\$	2.0100	\$ 1.6450	\$	1.8650
14 \$	1.9650	\$	1.7100	\$	2.2650	14	\$	2.0100	\$ 1.6450	\$	1.8650
15 \$	1.9650	\$	1.6850	\$	2.2100	15	\$	2.0100	\$ 1.6200	\$	1.7750
16 \$	1.9650	\$	1.6550	\$	2.2400	16	\$	2.0100	\$ 1.6950	\$	1.6050
17 \$	2.0700	\$	1.7550	\$	2.2400	17	\$	1.8300	\$ 1.6750	\$	1.6050
18 \$	1.9850	\$	1.7750	\$	2.2400	18	\$	1.8000	\$ 1.7800	\$	1.6050
19 \$	2.0900	\$	1.7150	\$	2.2400	19	\$	1.7800	\$ 1.8150	\$	1.6500
20 \$	2.1600	\$	1.7150	\$	2.2050	20	\$	1.7400	\$ 1.8150	\$	1.8550
21 \$	2.2050	\$	1.7150	\$	2.1450	21	\$	1.7400	\$ 1.8150	\$	1.9200
22 \$	2.2050	\$	1.7600	\$	2.1750	22	\$	1.7400	\$ 1.7300	\$	1.8750
23 \$	2.2050	\$	1.7650	\$	2.1450	23	\$	1.7550	\$ 1.7200	\$	1.8350
24 \$	2.1700	\$	1.6200	\$	2.1450	24	\$	1.7450	\$ 1.7450	\$	1.8350
25 \$	2.1100	\$	1.4800	\$	2.1450	25	\$	1.7200	\$ 1.6750	\$	1.8350
26 \$	1.9900	\$	1.4800	\$	2.1300	26	\$	1.7000	\$ 1.6750	\$	1.8750
27 \$	1.9900	\$	1.4800	\$	2.1950	27	\$	1.5850	\$ 1.6750	\$	1.8400
28 \$	1.9900	\$	1.4800	\$	2.1700	28	\$	1.5850	\$ 1.6750	\$	1.8450
29 \$	1.9900	\$	2.2000	\$	2.0450	29	\$	1.5850	\$ 1.6850	\$	1.8500
30 \$	1.9900	\$	2.4800	\$	2.0450	30			\$ 1.7100	\$	1.8500
31		\$	2.3150	\$	2.0450	31			\$ 1.7950	•	
AL \$	61.2150	\$	57.7650	\$	70.2000	TOTAL	\$	55.4050	\$ 50.7750	\$	54.5050
TINGS	30		31		31	POSTINGS		29	31		30
RAGE \$	2.0405	\$	1.8634	\$	2.2645	AVERAGE	\$	1.9105	\$ 1.6379	\$	1.8168

	MAY 2016		JUNE 2016		JULY 2016		AUGUST 2016	SE	PTEMBER 2016	(OCTOBER 2016
DAY	MIDPOINT		MIDPOINT		MIDPOINT	, DAY	MIDPOINT		MIDPOINT		MIDPOINT
1 \$ 2 \$ 3 \$ 4 \$	1.8500 1.8500 1.8450 1.9150	\$ \$ \$	2.0400 2.2050 2.1900 2.1700	\$ \$ \$	2.7700 2.6950 2.6950 2.6950	1 2 3 4	\$ 2.6950	\$ \$ \$	2.8400 2.8100 2.7200 2.7200	\$ \$ \$	2.6900 2.6900 2.6900 2.6900
5 \$ 6 \$ 7 \$ 8 \$	1.9700 1.9100 1.7750 1.7750	\$ \$ \$	2.1700 2.1700 2.1950 2.2000	\$ \$ \$	2.6950 2.6950 2.6250 2.7300	5 6 7 8	\$ 2.7300 \$ 2.7300 \$ 2.7300	\$ \$ \$	2.7200 2.7200 2.7550 2.7600	\$ \$ \$	2.7200 2.7850 2.8850 2.8200
9 \$ 10 11 \$ 12 \$	1.7750 1.9750 1.9400	\$ \$ \$	2.2350 2.2200 2.3200 2.3200	\$ \$ \$	2.6300 2.6300 2.6300 2.7350	9 10 11 12	\$ 2.6600 \$ 2.6300 \$ 2.5550	\$ \$ \$	2.7700 2.8200 2.8200 2.8200	\$ \$ \$	2.8200 2.8200 3.0150 3.0350
13 \$ 14 \$ 15 \$ 16 \$	1.9800 1.8650 1.8650 1.8650	\$ \$ \$	2.3200 2.4400 2.4400 2.5250	\$ \$ \$ \$	2.6500 2.7150 2.6800 2.5650	13 14 15 16	\$ 2.6200 \$ 2.6200 \$ 2.6300	\$ \$ \$ \$ \$ \$	2.9550 2.9100 2.8350	\$ \$ \$	3.0550 - 2.8850 2.8850
17 \$ 18 \$ 19 \$ 20 \$ 21 \$	1.8500 1.8950 1.8050 1.7100 1.7250	\$ \$ \$ \$	2.4700 2.5150 2.5150 2.5150 2.6400	\$ \$	2.5650 2.5650	17 18 19 20 21	\$ 2.6100 \$ 2.5900 \$ 2.5500	\$ \$ \$ \$ \$ \$ \$	- - 2.9300 3.0550	\$ \$ \$ \$	2.8850 2.9500 3.0750 3.0950 2.9750
22 \$ 23 \$ 24 \$ 25 \$	1.7250 1.7250 1.8850 1.8150	\$ \$ \$ \$	2.6700 2.6950 2.5900 2.5850			22 23 24 25	\$ 2.5500 \$ 2.6100 \$ 2.6300	\$ \$ \$ \$ \$ \$	3.1050 - 2.9450 2.9450	\$ \$ \$ \$	2.7700 2.7700 2.7700 2.7700 2.7200
26 \$ 27 \$ 28 \$ 29 \$	1.7250 1.7550 1.7950 1.7950	\$ \$ \$	2.5850 2.5850 2.6800 2.7700	\$ \$ \$	2.7300 2.6450 2.6950 2.6500	26 27 28 29	\$ 2.7550 \$ 2.7550 \$ 2.7550	\$ \$ \$	2.9450 2.9650 2.9350 2.8600	\$ \$ \$	2.6300 2.6900 2.6400 2.5650
30 \$ 31 \$ TOTAL \$	1.7950 1.7950 54.9500	\$	2.8250 72.8000	\$ \$ \$	2.6500 2.6500 63.9850	30 31 TOTAL	\$ 2.9100 \$ 2.8900 \$ 83.3300	\$ \$	2.8300 71.4900	\$ \$ \$	2.5650 2.5650 84.1500
POSTINGS AVERAGE \$	30 1.8317	\$	30 2.4267	\$	24 2.6660	POSTINGS AVERAGE	31 \$ 2.6881	\$	25 2.8596	\$	30 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		05/09/2016	\$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
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
04/04/2016	\$1.8000		10/03/2016	\$2.8500	
04/11/2016	\$1.8400		10/10/2016	\$2.9200	
04/18/2016	\$1.6800		10/17/2016	\$3.1500	
04/25/2016	\$1.8600	\$1.7950	10/24/2016	\$2.9900	
			10/31/2016	\$2.7100	\$2.9240

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

APRIL 2016	MIDPOINT	\$ 1.7950	\$ 1.7000	\$ 1.7000	\$ 1.7000	\$ 1.8000	\$ 1.8150	\$ 1.8100	\$ 1.8400	•		•	\$ 1.6900	\$ 1.7500	•	\$ 1.7350	•	\$ 1.6050				•		•	\$ 1.8400	•	τ-	\$ 1.8400	\$ 1.7950	\$ 1.8400	\$ 1.8400		\$ 53.4800	30	\$ 1.7827
MARCH 2016	MIDPOINT	\$ 1.5250	\$ 1.5050	\$ 1.5300	\$ 1.5100	\$ 1.4400	\$ 1.4400	\$ 1.4400	\$ 1.4500	\$ 1.4900	•		\$ 1.6950	\$ 1.6950		\$ 1.6500		\$ 1.6750				•			\$ 1.7350	\$ 1.6450	•	\$ 1.6450	\$ 1.6450	•	\$ 1.7300	\$ 1.7950	\$ 50.6850	31	\$ 1.6350
FEBRUARY 2016	Y MIDPOINT	1 \$ 2.2100	2 \$ 2.1000	3 \$ 1.9700	4 \$ 1.9850	5 \$ 1.9800		7 \$ 2.0150		69	G	↔	↔	↔	↔		€9	€	ss	€9	↔	€	↔	↔		↔	€			9 \$ 1.6200	0	_	\$ 54.7650	\$ 29	\$ 1.8884
	DAY	`			•			•	~	.	10	#	12	13	7	15	16	17	18	19	20	2	22	2	24	25	26	2.	28	29	93	χ̈́	TOTAL	POSTINGS	AVERAGE
JANUARY 2016	MIDPOINT	\$ 2.2750	\$ 2.2750	\$ 2.2750	\$ 2.2750	\$ 2.3200	\$ 2.2550	\$ 2.3000	\$ 2.2750	\$ 2.3800			\$ 2.3750	\$ 2.2650		\$ 2.1300		\$ 2.1100		\$ 2.1100					\$ 2.1100				\$ 2.1600		\$ 2.0600	\$ 2.0600	\$ 68.0100	31	\$ 2.1939
DECEMBER 2015	MIDPOINT		\$ 2.1200	\$ 2.0850	\$ 2.0900	\$ 2.0400		\$ 2.0400	\$ 1.9850	\$ 1.8700	•	•	\$ 1.6750	\$ 1.6750	•	\$ 1.6050	\$ 1.6200	\$ 1.5950	•	•		•	\$ 1.7100		\$ 1.3950				\$ 1.2750	\$ 2.1000		\$ 2.1400	\$ 54.7800	31	\$ 1.7671
NOVEMBER 2015	MIDPOINT	1.8750	1.8750	1.8350	1.8750	1.9850	2.0500	2.0200	2.0200	2.0200	2.0250	2.0300	2.0150	1.9050	1.9750	1.9750	1.9750	2.0300	1.9400	2.0450	2.1050	2.0900	2.0900	2.0900	2.1050	2.0600	1.9600	1.9600	1.9600	1.9600	1.9600		59.8100	30	1.9937
Ž	DAY	 8	2	9 8	4	5	9	\$ 2	\$	\$	10 \$		12 \$			15 \$	16 \$	17 \$	18 \$							25 \$						31	TOTAL \$	POSTINGS	AVERAGE \$

OCTOBER 2016	MIDPOINT	\$ 2.7400	\$ 2.7400					3 2.8950 3 2.8950								3.0700						\$ 2.003U \$ 2.0050				\$ 2.6350 \$ 2.6350	\$ 88.9450	31	\$ 2.8692
SEPTEMBER 2016	MIDPOINT		\$ 2.7850	\$ 2.7450				\$ 2.7250								2.9000					\$ 2.9650	•				\$ 2.8700	\$ 86.2750	30	\$ 2.8758
AUGUST 2016	MIDPOINT	2.7800	2.7300				2.6900									2.5500					2.6150					2.8350 2.8250	82.0050	31	2.6453
	□AA	\$	01 W	o 4 • ↔	5	9		<i>в</i> (13 \$			16.5	~ 07					24 5	6 96				30 \$ 31 \$	TOTAL \$	POSTINGS	AVERAGE \$
JULY 2016	MIDPOINT		\$ 2.7100	\$ 2.7100			\$ 2.5950	2.7000								\$ 2.5200 \$ 2.5200					\$ 2.6850					\$ 2.6150 \$ 2.6150	\$ 81.4350	31	\$ 2.6269
JUNE 2016	MIDPOINT	\$ 1.9900	\$ 2.1750	\$ 2.1800				\$ 2.1800 \$ 2.550									5 2.4900 5 2 4900				\$ 2.5400					\$ 2.7900	\$ 72.1500	30	\$ 2.4050
MAY 2016	DAY MIDPOINT	1 \$ 1.7900	2 \$ 1.7900		↔	↔	⊌ €	8 \$ 1.0950 9 \$ 1.6950) 49	• ↔	↔	↔	€>	↔	69 €			÷ +	↔	es ·	⊌ •		· •	· ()	↔	30 \$ 1.7450 31 \$ 1.7450	AL \$ 55.4550	TINGS 31	RAGE \$ 1.7889
	-																										TOTAL	POSTINGS	AVERAGE

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			NATURAL	
	GAS WEEK			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	60 4400	
12/14/2015	\$2.0000 \$1.7900		06/13/2016	\$2.1400 \$2.3400	
12/21/2015	\$1.7900 \$1.6700		06/20/2016	·	
12/28/2015	\$1.5700 \$1.5000	\$1.7600	06/27/2016	\$2.5500	CO 4475
12/20/2013	φ1.5000	\$1.7000	00/21/2016	\$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
00/04/0046	¢2.4200		00/04/0040	60 7000	
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	£4.0400	08/22/2016	\$2.6200	A
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	ድጋ 0400	
04/04/2016	\$1.8900		10/10/2016	\$2.8400 \$2.8900	
04/11/2016	\$1.7200		10/10/2016	\$2.8800 \$3.0700	
04/16/2016	\$1.7200 \$1.8700	\$1.8225	10/17/2016	\$3.0700 \$3.8300	
04/20/2010	φ1.0700	φ1.0223	10/24/2016	\$2.8300 \$3.6400	40.0460
			10/31/2016	\$2.6100	\$2.8460

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

	NOVE 20		DE	CEMBER 2015		JANUARY 2016		F	EBRUARY 2016	MARCH 2016	 APRIL 2016
DAY	MID	POINT		MIDPOINT		MIDPOINT	DAY		MIDPOINT	MIDPOINT	MIDPOINT
		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	\$		4	\$	2.0250	\$ 1.5400	\$ 1.8100
5	\$ 2	2.0150	\$	2.0650	\$	2.3700	5	\$	2.0050	\$ 1.4750	\$ 1.8550
6	\$ 2	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	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	2.0700	\$	1.8150	\$	2.4250	11	\$	2.0900	\$ 1.6500	\$ 1.8650
12	\$ 2	2.0300	\$	1.6750	\$	2.4350	12	\$	2.0600	\$ 1.6700	\$ 1.8050
13		1.9550	\$	1.6750	\$	2.3150	13	\$	1.9800	\$ 1.6700	\$ 1.8550
14	\$ 1	1.9900	\$	1.6750	\$	2.2500	14	\$	1.9800	\$ 1.6700	\$ 1.8550
15	\$ 1	1.9900	\$	1.6200	\$	2.1650	15	\$	1.9800	\$ 1.6450	\$ 1.7750
16	\$ 1	1.9900	\$	1.6050	\$	2.1750	16	\$	1.9800	\$ 1.7450	\$ 1.6200
17	\$ 2	2.0500	\$	1.6600	\$	2.1750	17	\$	1.8450	\$ 1.7100	\$ 1.6200
18	\$ 1	1.9500	\$	1.7150	\$	2.1750	18	\$	1.8550	\$ 1.7700	\$. 1.6200
19	\$ 2	2.0550	\$	1.6650	\$	2.1750	19	\$	1.8300	\$ 1.8300	\$ 1.7250
20	\$ 2	2.1500	\$	1.6650	\$	2.1400	20	\$	1.7550	\$ 1.8300	\$ 1.8700
21	\$ 2	2.1650	\$	1.6650	\$	2.1150	21	\$	1.7550	\$ 1.8300	\$ 1.9050
22	\$ 2	2.1650	\$	1.7350	\$	2.1600	22	\$	1.7550	\$ 1.7550	\$ 1.8950
23	\$ 2	2.1650	\$	1.6800	\$	2.1550	23	\$	1.7700	\$ 1.7250	\$ 1.8900
24	\$ 2	2.1400	\$	1.5150	\$	2.1550	24	\$	1.7450	\$ 1.7850	\$ 1.8900
25	\$ 2	2.0650	\$	1.4250	\$	2.1550	25	\$	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	1.9750	\$	1.4250	\$	2.1800	28	\$	1.6400	\$ 1.6800	\$ 1.8750
29	\$ 1	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	
TOTAL	\$ 60	0.8600	\$	56.2450	\$	69.2250	TOTAL	\$	55.6050	\$ 51.5050	\$ 54.7850
POSTINGS		30		31		31	POSTINGS		29	31	30
AVERAGE	\$ 2	2.0287	\$	1.8144	\$	2.2331	AVERAGE	\$	1.9174	\$ 1.6615	\$ 1.8262

	MAY		JUNE		JULY			UGUST	SE	PTEMBER	C	OCTOBER
	2016		2016		2016			2016		2016		2016
DAY	MIDPOINT] [MIDPOINT		MIDPOINT	DAY	N	MIDPOINT		MIDPOINT		MIDPOINT
_					_							
1 9		\$		\$	2.8500	1	\$	2.8650	\$	2.8650	\$	2.8000
2 \$	•	\$		\$	2.8150	2	•	2.8250	\$	2.8250	\$	2.8000
3 9		\$	2.2400	\$	2.8150	3	\$	2.7500	\$	2.7800	\$	2.8000
4 9	•	\$	2.2200	\$	2.8150	4	•	2.8250	\$	2.7800	\$	2.8050
5 \$		\$	2.2200	\$	2.8150	5	•	2.8300	\$	2.7800	\$	2.8350
6 9		\$	2.2200	\$	2.7600	6	\$	2.7750	\$	2.7800	\$	2.8650
7 9	•	\$	2.2600	\$	2.7300		\$	2.7750	\$	2.7800	\$	2.9550
8 9		\$	2.2450	· \$	2.7900	8	\$	2.7750	\$	2.7600	\$	2.9100
9 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 \$	1.9300	\$	2.3850	\$	2.7050	13	\$	2.6250	\$	2.9450	\$	3.1150
14 \$	1.8650	\$	2.5000	\$	2.7500	14	\$	2.6250	\$	2.9950	\$	3.0950
15 \$	1.8650	\$	2.4900	\$	2.7250	15	\$	2.6250	\$	2.9800	\$	3.0850
16 \$	1.8650	\$	2.5600	\$	2.6450	16	\$	2.6450	\$	2.9050	\$	3.0850
17 \$	1.8250	\$	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 9		\$	2.6300	\$	2.7350	24	\$	2.6800	Š	3.0300	\$	2.7550
25		\$	2.6250	\$	2.7350	25	\$	2.7650	\$	3.0300	\$	2.6650
26 9		\$	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 8		Ψ	2.0400	φ \$	2.7150	31		2.8950	Ψ	2.9000	Ψ \$	2.6250
		•	74.0000	*			•		•	07.5050	•	
TOTAL S	56.9050	\$		\$	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 DAIL	LY DAI TGT ZON	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				+ 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	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	\$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	0	\$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	0	\$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	0	\$0 \$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	0	\$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	0	\$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	0	\$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	0	\$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	Ó	\$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 \$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	0	\$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 \$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	0	\$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	Ō	\$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	0	\$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	0	\$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	ō	\$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	Ō	\$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	Ō	\$0
															·
														0	\$0

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

		CALCULATION	ON OF DAIL	Y DAI TGT ZONI	E 1		CALCULATI	ON OF DAIL	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				+ Col. 3 + Col. 4	GAS DAILY				+ Col. 8 + Col. 9	FOR ZO		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
	***	0.540/	00 4400	20.0000	#0 F0 F	00 4000	0.540/	00.4400	** ***		40.505	** ***			
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
′	\$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%	\$0.4190	\$0.0628	\$2.5391	\$2.5134	\$2.5391	\$2.5391	0	\$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 \$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

11

_	CALCULATION OF DAILY DAI TGT ZONE 1						CALCULATI	ON OF DAIL	Y DAI TGT ZON	∃ 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 ZO		HIGHER OF		TOTAL.
_	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	1G1-1	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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$0 \$0 \$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$0 \$0 \$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	0	\$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	0	\$0 \$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	0	\$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	0	\$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	0	\$0 \$0 \$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$0 \$0 \$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	0	\$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	Ō	\$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	0	\$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	Ō	\$0
														0	\$0

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

_		CALCULATI	ON OF DAIL	Y DAI TGT ZON	E1		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		LUCUED OF		~~~
	GAS DAILY MIDPOINT	FUEL	NNS	NNS	+ Col. 3 + Col. 4 DAILY DAI	GAS DAILY MIDPOINT	FUEL	NNS	NNS	+ Col. 8 + Col. 9 DAILY DAI	DAILY DAI	DAILY DAI	HIGHER OF	DAILY	TOTAL
Dav		RETENTION		COMMODITY	TGT-1	TGT - ZONE 4			COMMODITY	TGT-4	TGT-1	TGT-4	COLUMN 11	DAILY	DOLLARS
Day	191-1	KETENTION	DEMAND	COMMODITY	101-1	1G1 - ZONE 4	RETENTION	DEMAND	COMMODITY	101-4	101-1	101-4	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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$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 \$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 \$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 \$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 \$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 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		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	\$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	0	\$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	0	\$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 \$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 \$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	\$1.6650	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
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		LY DAI TGT ZON			CALCULATI		LY DAI TGT ZONE						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	PLATTS GAS DAILY				(Col. 1/(1-Col.2)) + Col. 3 + Col. 4	PLATTS GAS DAILY				(Col. 6/(1-Col.7)) + Col. 8 + Col. 9	DAILY		HOUED OF		
	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	DAILY DAI	DAILY DAI	HIGHER OF COLUMN 11	DAILY	TOTAL
Day		RETENTION		COMMODITY	TGT-1	TGT - ZONE 4			COMMODITY	TGT-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	DOLLARS
Day	101-1	RETENTION	DEMAND	COMMODITI	101-1	101-201424	KLILITION	DEMAND	COMMODITI	1014	101-1	101-4	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	0	\$0 \$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 \$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	0	\$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	\$1.8850	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 \$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	0	\$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	0	\$0 \$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	0	\$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	E 1		CALÇULATI	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				
	GAS DAILY	51151	NINO	1110	+ Col. 3 + Col. 4	GAS DAILY	E			+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
D	MIDPOINT	FUEL RETENTION	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	\$0
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
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	0	\$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 \$0 \$0 \$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	0	\$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	0	\$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	0	\$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	0	\$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	0	\$0 \$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	0	\$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	0	\$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 \$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 \$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

	CALCULATION OF DAILY DAI TGT ZONE 1						CALCULATI	ON OF DAI	Y DAI TGT ZON	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 DAILY DAI	GAS DAILY MIDPOINT	FUEL	NNS	NNS	+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
Day		RETENTION	DEMAND			TGT - ZONE 4			COMMODITY	DAILY DAI TGT-4	DAILY DAI TGT-1	DAILY DAI TGT-4	COLUMN 11	DAILY	DOLLARS
Day	101-1	KETENTION	DEMINIAD	COMMODITI	101-1	101 - 20NE 4	RETENTION	DEMAND	COMMODITY	161-4	161-1	161-4	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	0	\$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	0	\$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	\$2.8623	\$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	0	\$0
13	\$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	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	Ô	\$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	\$3.3856	0	\$0
														0	\$0

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

		CALCULATI	ON OF DAIL	LY DAI TGT ZONI	E 1		CALCULATI	ON OF DAIL	Y DAI TGT ZONE	<u> 4</u>					
_	(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	\$3.3291	\$3.3240	\$3.3291	0	\$0
2	\$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	0	\$0
3	\$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	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	\$3.2932	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	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 \$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
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	\$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
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
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
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	0	\$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	0	\$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	0	\$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	0	\$0 \$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	0	\$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	Ó	\$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	Ō	\$0
															•-
														0	\$0
															•

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

_	CALCULATION OF DAILY DAI TGT ZONE 1						CALCULATI	ON OF DAIL	Y DAI TGT ZONI	E4					
	(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 DAILY DAI	GAS DAILY MIDPOINT	EUE:	NING	NING	+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
Dave			DEMAND			TGT - ZONE 4	FUEL	NNS	NNS	DAILY DAI TGT-4	DAILY DAI	DAILY DAI	COLUMN 11	DAILY	DOLLARS
Day	161-1	RETENTION	DEMAND	COMMODITY	161-1	1G1 - ZONE 4	RETENTION	DEMAND	COMMODITY	161-4	TGT-1	TGT-4	OR COLUMN 12	PEFDCQ	Col. 13 x Col. 14
1	\$2.8150	2.54%	\$0.4190	\$0.0628	\$3.3702	\$2.8200	2.54%	\$0.4190	\$0.0628	\$3.3753	\$3.3702	\$3.3753	\$3.3753	0	\$0
2	\$2.7900	2.54%	\$0.4190	\$0.0628	\$3.3445	\$2.7900	2.54%	\$0.4190	\$0.0628	\$3.3445	\$3.3445	\$3.3445	\$3.3445	0	\$0
3	\$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
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	\$0
5	\$2.7900	2.54%	\$0.4190	\$0.0628	\$3.3445	\$2.8000	2.54%	\$0.4190	\$0.0628	\$3.3548	\$3.3445	\$3.3548	\$3.3548	0	\$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	\$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	\$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	\$2.7000	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	\$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
11	\$2.6100	2.54%	\$0.4190	\$0.0628	\$3.1598	\$2.6300	2.54%	\$0.4190	\$0.0628	\$3.1803	\$3.1598	\$3.1803	\$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	0	\$0
13	\$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
14	\$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
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	\$3.1650	\$2.6300	2.54%	\$0.4190	\$0.0628	\$3.1803	\$3.1650	\$3.1803	\$3.1803	0	\$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	\$0
18	\$2.6000	2.54%	\$0.4190	\$0.0628	\$3.1496	\$2.6100	2.54%	\$0.4190	\$0.0628	\$3.1598	\$3.1496	\$3.1598	\$3.1598	0	\$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	\$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	\$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	\$0
23	\$2.6300	2.54%	\$0.4190	\$0.0628	\$3.1803	\$2.6100	2.54%	\$0.4190	\$0.0628	\$3.1598	\$3.1803	\$3.1598	\$3.1803	0	\$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	\$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	\$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	Ō	\$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	ō	\$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	Ö	\$0
														0	\$0

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

_		CALCULATI	ON OF DAIL	LY DAI TGT ZONI	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	FUE	NNS	NINO	+ Col. 3 + Col. 4	GAS DAILY	EUEI	NNO	NINIO	+ Col. 8 + Col. 9	FOR Z		HIGHER OF		TOTAL
Day	MIDPOINT	FUEL RETENTION		NNS COMMODITY	DAILY DAI TGT-1	MIDPOINT TGT - ZONE 4	FUEL	NNS	NNS COMMODITY	DAILY DAI TGT-4	DAILY DAI TGT-1	DAILY DAI TGT-4	COLUMN 11	DAILY	DOLLARS
Day	161-1	RETEINTION	DEMAND	COMMODITY	101-1	101 - ZONE 4	RETENTION	DEWAND	COMMODITY	101-4	161-1	161-4	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 \$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

	CALCULATION OF DAILY DAI TGT ZONE 1						CALCULATION OF DAILY 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
_	MIDPOINT	FUEL	NNS	NNS	DAILY DAI	MIDPOINT		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	\$2.6750	2.54%	\$0.4190	\$0.0627	\$3.2264	\$2.6900	2.54%	\$0.4190	\$0.0627	\$3.2418	\$3.2264	\$3.2418	\$3.2418		
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 60
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 ***
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 \$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	0	\$0 \$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	0	φn
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	n	\$0 \$0 \$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	Ô	\$0 \$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	Ö	\$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	ŏ	\$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	ŏ	\$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	n	\$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	Õ	ψ0 Φ0
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	Õ	\$0 \$0 \$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	ő	\$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	ő	\$ 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	ŏ	\$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	ő	\$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	ő	\$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	ŏ	\$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	ō	\$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	ō	\$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	ō	- \$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	Ō	\$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	Ō	\$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)

Part	COLUMN			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Columbia					**					LATERALC	APACITY AND FIRM MAINLINE RE	CEIPT POINT CA	PACITY	Altares.					
Total Carter Tota	CONTRACTS		ZONE	NOV 15	DEC 15			MAR 18	(SUM OF	ALLOCATION PERCENTAGE	APR 16	MAY 16	JUN 16			SEP 16	OCT, 16		ALLOCATION PERCENTAGE*
1		_							0	0,00%		0							0.00%
Telephone	10711110										37,830 43 542				23,542	23,542	23,542	204,794	35 95%
1 100			TOTAL	186,207	186,207	186,207	186,207	166,207	931,035	100.00%	81,372	81,372	81,372	81,372	81,372	81,372	61,372	569,604	100 00%
1 1 1 1 1 1 1 1 1 1	TGT-FT-29909		SL							0.00%	149							1,043	1.20%
TOT-FT-44991			4	10,000	10,000	10,000	10,000	10,000	50,000	84 03%	10 000	10,000	10,000	10,000	10 000	10,000	10,000	70,000	80,55%
Total Tota			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	12,413	00,503	10000
TGT.4TT-25591 S	TGT-FT-34951		SL 1	0		0	0						ō	ō	ō	Ö	Ó	ō	0.00%
Total Tota			TOTAL	- 0	0	0	<u>D</u>	0	0	0,00%	0	<u>0</u>	60,000	60,000	60,000	60,000	60 000	300,000	100.00%
Total Tota	707 CTF 22524		eı		•	•	0	•		0.00%	0	0	0	a	0	0	0	0	0.00%
TGT-STF-26919	161-511-02091		1	ŏ			ŏ			0.00%	3,420	3,420			3,420			23,940 126,000	
TOPIL 10			TOTAL		0	, •	0	0	0		21,420	21,420	21,420	21,420	21,420	21,420	21,420	149,940	100.00%
TOPLET-A-11110 10	TGT-STF-34919											0	0						0.00%
TOPI-FT-A-111110 10 20 20 20 20 20 20 20			4	0	0	0	0	0	· a	0.00%		- 0	- 0	0	0			0	0.00%
COLIAN 17 18 19 20 21 22 23 24 25 38 27 28 29 30 31 32 23 34 4 4 591% CONTRACTS TOTAL STORES AS TOTAL STORES A			IOIAL	·	100	30,000	U	v	30,100	100.00%	Ü	Ū	J	·	·	•	ū	•	
COLLIAN 17 16 19 20 21 22 23 24 25 26 27 28 27 28 29 30 31 32 33 34 25 27 28 27 28 27 30 31 32 33 34 25 27 28 27 2	TGPL-FT-A-111110		ī	0	0	0	0	0	0	0 00%	0	0_	0	0.	0	0	0	0	0 00%
WINTER SEASON OUNTITY STREET TENAS GAS TENAS GAS SEPOR SEP			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%
WINTER SEASON OUNTITY STREET TENAS GAS TENAS GAS SEPOR SEP																			
SEASON OUNTRACTS COUNTRACTS	COLUMN	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONTRACTS CONT						TEXAS GAS	TEXAS GAS												
CONTRACTS TOT-NINS-28781 26.220,000 SL 0.00% 0 14.162.398 12.037.502 12.037.502 1 0.00% 0 0.359.5% 0.311,026 2.980,674 TOT-NINS-28781 26.220,000 SL 0.00% 0 1.520,000 SL 0.00% 0.00% 0 0.00% 0		QUANTITY	ZONE	PERCENT	ZONE SL	ZONE 1	ZONE 4	ZONE 0	ZONE 1	TOTAL	YTTTAAUD	ZONE	PERCENT	ZONE SL	ZONE 1	ZONE 4	ZONE D	ZONE 1	TOTAL
TGT-FT-29999 1,520,000 SL 0.00% 0 2,140,000 SL 1,20% 25,680 390,550 1,723,770 TGT-FT-34951 0 SL 0.00% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONTRACTS TGT-NNS-29781			0 00%	0						·	SL		0					
TOT-STF-34919 933,100 5L 000% 0 1 0000% 0 3,040,000 0 1 0,000% 0 1			14			14,182,398	12.037.602					14			5,311,026	2,980,974			
TGT-FT-34951 0 SL 000% 0 1 0000% 0 1 0000% 0 1 0000% 0 1 0000% 0 1 0000% 0 0 1 0000% 0 0 0 0	TGT-FT-29909	1,520,000	SL 1	0.00% 15.97%	0	242 744					2,140,000	SL 1		25,680	390,550				
TGT-STF-32591 0 SL 000% 0 3.852,000 SL 000% 0 9.180,000 TGT-STF-32591 0 SL 000% 0 1 15,57% 0 515,164 4 0,000% 0 1 15,57% 0 515,164 3 0,000% 0 1 15,57% 0 515,164 3 0,000% 0 1 1 15,57% 0 515,164 4 0,000% 0 1 1 10,000% 0 3.236,836 TGT-STF-34918 933,100 SL 000% 0 1 100,00% 0 1 1 0,000% 0 0 TGPL-FT-A-111110 3,040,000 0 100,00% 1 0,000% 0 1 0,000% 0 1 0,000% 0 0			4	84 03%		242,144	1,277,256					4	80.55%			1,723,770			
TGT-STF-32591 0 SL 000% 0 3.852,000 SL 000% 0 1 15,97% 0 15,164 4 200,00% 0 0 1 15,57% 0 15,164 4 200,00% 0 1 1 10,000% 0 1 1 10,000% 0 1 1 1 10,000% 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TGT-FT-34951	0	1	0.00%	0	٥					9,160,000	SL 1	0.00%	0	0				
1 0,00% 0 1 15,97% 815,164 3,236,836 TGT-STF-34918 933,100 SL 0,00% 0 1 100,00% 0 1 1 0,00% 0 1 1 0,00% 0 0 1 1 0,00% 0 0 1 0,00% 0 0 1 0,00% 0 0 1 0,00% 0 0 1 0,00% 0 0 1 0,00% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-		•		0				3.852.000	4		0		9,180,000			
TGT:-STF-34919 933,100 SL 0.00% 0 1 100,00% 933,100 1 1 0.00% 0 1 1 0.00% 0 0 1 100,00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 1 1 0.00% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1G1-S1F-32591	U	1	0.00%	U	0	0				3,632,660	1	15.97%	·	615,164	3,236,836			•
4 000% 0 4 000% 0 TGPL-FT-A-111110 3.040,000 0 100 00% 3.040,000 4280,000 0 100,00% 4280,000 1 000% 0 1 0,00% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TGT-STF-34919	933,100	SL	0 00%	0						0	SL		0	_				
1 0,00%			1 4			933,100	0					4			0	0			
	TGPL-FT-A-111110	3,040,000	0								4,280,000	0 1	100.00%						
	TOTALS	31,713,100		2008		15,358.242	13,314,858			31,713,100	27,744,000	·		25,680	6 316.740	17,121,580	4,280 000		27,744,000
SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENT** 0.00% 48.43% 41.98% 9.59% 0.00% 100.00% 0.00% 0.00% 0.00% 0.00%		TITY 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 DWIDED BY TOTAL CAPACITY UNDER EACH CONTRACT.

^{**}THE WINTER SEASON SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENTAGE IS CALCULATED BY DIVIDING THE TOTAL OF COL. 21, 22, 23, OR 24 BY THE TOTAL OF COL. 17,

"THE SUMMER SEASON SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENTAGE IS CALCULATED BY DIVIDING THE TOTAL OF COL. 29, 30, 31, 32, OR 33 BY THE TOTAL OF COL. 26.

PBR-TIF SUPPORTING CALCULATIONS

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

LOUISVILLE GAS AND ELECTRIC COMPANY
CALCULATION OF TOTAL ANNUEL BENCHMER MONTH! A CASA TRANSPORTATION COSTS (TABMGTC*)
FOR PER TRANSPORTATION INDEX FACTOR ("TIF")

-

COLUMN

	25 SURCHARGES	10TAL (23624) 5420 5420 5524 5524 5433 5420 5420 5434 5430 5430 5430 5430	\$4,094	RCHARGES (1904d) 101AL (1904d) 250 250 250 250 250 250 250 250 250 250	\$3,400 57	SURCHARGES TOTAL (55x69) 50 50 50 50 50 50 50 50 50 50 50 50 50
·	1141	CHARGE 80.0014 80.0014 80.0014 80.0014 80.0014 80.0014 80.0014 80.0014 80.0014 80.0014	04	CALCULATION OF SU. ACA CHARGE SLOOT4	99	CALCULATION OF SUI ACA CHARGE SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014 SOO014
	23 TOTAL CITY-GATE	DELIVERY (15-17-18-21) 90,170 90,170 90,180 90,180 90,180 90,180 90,180 90,180 90,000 90,174 90,000 90,174 90,000	2,948,413	CITYGATE DELIVERY DEL	2,472,305	CITY-GATE DELIVERY (47-48+51+53) 0 0 041,088 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	22 TOTAL COMM. (14X15) +	(16X17) + (16X18) + (16X18) + (16X17) (16X17	\$149,529 38	TOTAL COMM. (302/33) +	\$89,004	TOTAL COMM. (48X47)+ (48X47)+ (48X47)+ (48X47)+ (52X57) (52X57
		Z4 CITY-GATE (16 DELWERIES 10.00 10.00 0 0 0 0 0 0 0 0 0 0 0 0	10,000	24 CITY-GATE (32 DELIVERIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,472,305	24 CITY-CANTE (48) 24 CITY-CANTE (48) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		24 COMM. 2 CHARGE S0.0360	98	Z4 COMM. Z 24 COMM. Z 20 COMM. Z	23	24 COMM. Z CHARGE CHARGE S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360 S0.0360
	19 MGTC	Z3 CITY-GATE DELIVERIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35	23 CITY-GATE DELIVERIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	o 51 MGTC	Z3 OTY-GATE DELIVERIES O O O O O O O O O O O O O O O O O O O
SURCHARGES 107AL 107AL 22,736 23,336 23,346 21,446 21,446 21,446 21,544 21,746 21,747 21,775	18 T PORTION OF B	23 COMM. 23 COMM. 24 COMM. 25 COMM. 25 COMB. 25 COMB. 25 COMB. 26 COMB. 26 COMB. 26 COMB. 26 COMB. 27 COMB. 27 COMB. 28 COMB. 29 COMB.	34	TT PORTION OF BM TT POR	50 STE PORTION OF BMGTC	11ES 14AGES 14AGES 15AGAMA 15A
CALCULATION OF SURCHARGES A CHARGE SOON14 S	16 17 18 CALCULATION OF TEXAS GAS RATE FT PORTION OF BMGTC OF BASE TARIFF RATES OF PASE TARIFF RATES OF PASE TARIFF RATES	21 GITY-GATE DELIVERIES 280, 179 93, 838 93, 838 231, 432 181, 869 305, 885 305, 885 310, 000 305, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000 306, 000	2,938,413 33	EXS. GAS. RATE F. TES. TES. TES. TO THE COMMODING TO THE	0 49 XAS GAS RATE S'	CALCULATION OF BASE TARIFF FROM OF BASE TARI
107AL 10689	16 LCULATION OF T BASE TARIFF RA	Z1 COMM. Z CHARGE S0.0508 S0.0508 S0.0508 S0.0508 S0.0508 S0.0508 S0.0508 S0.0508 S0.0508 S0.0508 S0.0508	32 32 ATION OF T	MASE TARIF ERG. ZI COMM. ZI COMM. ZI COMM. ZI COMM. ZI COMM. ZI COMM. SI COSOB SI CO	48 CULATION OF TE	21 COMM. 2 21 COMM. 2 21 COMM. 2 20.0538 20.05
SERVICE PORTION OF BMGTC WIS COMMODITY CHARGES DDITY CHARGES DD	15 CALCULATION OF	SLCITY-GATE DELIVERIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	£ 5	CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG EARLY CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG EARLY CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG EARLY CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG FIGURE CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG FIGURE CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG FIGURE CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG SOURCE CALCULATION OF TEXAS GAS RATE FT PORTION OF BMG SOURCE CALCULATION OF TEXAS GAS RATE FT PORTION OF TEXAS GAS	0 47 CA	SL CITY GATE DELIVERIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
COMOTICE SERVICE PORTION OF BIN WIS COMMODITY CHARGE COMMODITY CANDOT COMMODITY CHARGE COMM		ST COMM 55 CONTROL CHARGE CHARGE SOUSS SOU	30	SL COMM. 6 CHARGE S0.0528	46	SL COMM. E COMM. E COMM. E COMM. E COMM. E COMMES SO 06228
CALCULATION OF TEXAS GAS NOANOTICE SEE CALCULATION OF BASE TABLE PARTER NS DEMAND CHARGES TOTAL CHARGES	£	1070AL 1071AL 1071AL 1071AL 1071AC 10	\$1,149,972 29	TOTAL (28627828) S S S S S S S S S S S S S S S S S S S	\$1,281,332 45	107AL (42245344) 1707AL (42245344) 1707AL 17
CALCULATIO	12 MAND CHARGES	CONTRAND DERAND 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000	120,000	T DEMAND CHARGES CONTRACT DEMAND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	300,000	MAND CHARGES CONTRACT DENAND 100 100 100 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000
NNS DI CHARNO CHARNO SA ATRO SS ATRO S	11 FT DE	ENAMO CHARGE 80.3142 80.3142 80.3142 80.3142 80.3142 80.3142 80.3142 80.3142 80.3142 80.3142	27	FTDEL DELAMIN CHARGE \$0.0000 \$	43	SIF DE DEMAND CHARGE SO ACSZ S
	₽	DAYS 888888888888888888888888888888888888	366	A & & & & & & & & & & & & & & & & & & &	366	
MONTH - NOV. 15 DEC. 16 DEC. 1	соглум	MONTH NOV. 15 DEC. 15 DEC. 15 JER. 16 MAR. 16 MARY 18 JUL. 16 AUG. 16 SEP. 16 OCT. 16 OCT. 16	TOTAL	MONTH NO. 15 DEC. 15 DEC. 15 DEC. 15 DEC. 16 D	TOTAL	MONTH NOV. 15 DEC. 15 JAN. 16 ADC. 16

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	ECT BILLS	TOTAL	NNS
	CASH-		S&DB	BMGTC
MONTH	OUT _	OTHER .	(9+58+59)	(4+7+60)
NOV. 15 DEC. 15	\$0 \$0	\$0 \$0	\$2,726 \$2,062	\$2,446,484 \$2,494,148
JAN, 16	(\$24,370)	\$0	(\$22,032)	\$2,482,181
FEB. 16	\$0	\$0	\$2,052	\$2,338,752
MAR. 16	\$0	\$0	\$1,449	\$2,466,671
APR. 16 MAY 16	\$0	\$0	\$800	\$1,260,708
MAY 16 JUN, 16	\$0 \$0	\$0 \$0	\$550 \$831	\$804,019 \$782,515
JUL. 16	\$0	\$0	\$417	\$798,028
AUG, 16	\$0	\$0	\$1,584	\$850,409
SEP. 16 OCT. 16	\$0	\$0	\$1,749	\$832,674
OCT. 16	\$0	\$0	\$1,217	\$1,578,650
TOTAL	(\$24,370)	\$0	(\$6,795)	\$19,135,237
COLUMN	62	63	64	65
,				
' .		FT		TOTAL FT
	CALC. OF DIRE	CT BILLS	TOTAL S&DB	BMGTC
	CASH-		(25+62+	(13+22+
MONTH	OUT	OTHER	63)	64)
NOV. 15	\$0	\$0 \$0	\$420	\$109,781
DEC. 15 JAN. 16	\$0 \$0	\$0 \$0	\$132 \$324	\$102,306 \$109,483
FEB. 16	\$0 \$0	so.	\$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 JUL. 16	\$0 \$0	\$0 \$0	\$420 \$428	\$109,920 \$113,389
AUG. 16	\$0	\$0 \$0	\$426 \$434	\$113,584
SEP. 16	\$0	\$0	\$420	\$109,920
OCT. 16	\$0	\$0	\$401	\$113,487
TOTAL	\$0	\$0	\$4,094	\$1,303,595
COLUMN	66	67	68	69
			TOT	AL FT BACKHAUL
	F	TRACKHALII		
		T BACKHAUL ECT BILLS	TOTAL S&DB	
	CALC, OF DIRE	CTBILLS	TOTAL S&DB (41+66+	BMGTC (29+38+
MONTH	CALC, OF DIRE CASH- OUT	OTHER	TOTAL \$&DB (41+66+ 67)	BMGTC (29+38+ 68)
NOV. 15	CALC, OF DIRE CASH- OUT \$0	OTHER \$0	TOTAL S&DB (41+66+ 67) \$0	BMGTC (29+38+ 68) \$0
NOV. 15 DEC. 15	CALC, OF DIRE CASH- OUT \$0 \$0	OTHER \$0	TOTAL \$&DB (41+66+ 67) \$0 \$0	BMGTC (29+38+ 68) \$0 \$0
NOV. 15 DEC. 15 JAN. 18	CALC, OF DIRE CASH- OUT \$0 \$0 \$0	OTHER \$0 \$0 \$0	TOTAL S&DB (41+66+ 67) \$0 \$0 \$0	BMGTC (29+38+ 68) \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18	CALC, OF DIRE CASH- OUT \$0 \$0	OTHER \$0	TOTAL \$&DB (41+66+ 67) \$0 \$0	BMGTC (29+38+ 68) \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 18	CALC, OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+86+ 67) \$0 \$0 \$0 \$0 \$0 \$0 \$0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 16 FEB. 18 MAR. 16 APR. 16 MAY 16	CALC, OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	OTHER SO	TOTAL S&DB (41+88+ 87) \$0 \$0 \$0 \$0 \$0 \$0 \$0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 16	CALC. OF DIRE CASH- OUT S0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	OTHER S0 S0 S0 S0 S0 S0 S0 S0 S0 S	TOTAL S&DB (41+86+ 87) S0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	BMGTC (29+38+ 88) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 16 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 16 JUL. 16	CALC. OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	OTHER S0	TOTAL S&DB (41+86+ 67) 80 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 18 JUL. 16 AUG. 16	CALC. OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	OTHER S0	TOTAL S&DB (41+88+ 67) 50 50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$8 \$902 \$880	8MGTC (29+38+ 68) 50 50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,469 \$279,603 \$276,550
NOV. 15 DEC. 15 JAN. 16 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 16 JUL. 16	CALC. OF DIRE CASH- OUT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	OTHER S0	TOTAL S&DB (41+86+ 67) 80 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 16 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 16 JUL. 16 AUG. 16 SEP. 18	CALC, OF DIRE CASH SO SO SO SO SO SO SO SO SO	OTHER S0	TOTAL S&DB (41+88+ 67) 50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	BMGTC (29+38+ 88) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$270,003 \$278,550 \$206,605
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 18 OCT. 18	CALC. OF DIRE CASH S0 S0 S0 S0 S0 S0 S0 S0 S0	OTHER S0	TOTAL SADB (41+88+ 97)	8MGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$2 \$2 \$2,0,063 \$276,063 \$276,550 \$206,565 \$276,489 \$1,353,736
NOV. 15 DEC. 15 JAN. 16 FEB. 18 MAR. 16 APR. 16 MAY16 JUN. 16 JUN. 16 JUL. 16 SEP. 18 OCT. 16	CALC, OF DIRE CASH SO SO SO SO SO SO SO SO SO	OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	TOTAL S&DB (41+88+ 67) S0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 18 OCT. 18	CALC, OF DIREC CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER S0	TOTAL SADB (41+88+ 97)	BMGTC (29+38+68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 18 OCT. 18	CALC. OF DIRECASH. CASH. SO SO SO SO SO SO SO SO SO S	OTHER S0	TOTAL SADB (41+88+ 97)	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,469 \$276,465 \$276,489 \$1,353,736 \$73
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 APR. 16 JUL. 16 JUL. 16 AUG. 16 SEP. 18 COT. 18 TOTAL	CALC, OF DIREC CASH. CASH. SO	OTHER S0	TOTAL \$ADB (41+80+) \$0	BMGTC (29+38+68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 18 MAY 18 JUL. 16 JUL. 16 AUG. 16 OCT. 18 TOTAL COLUMN	CALC. OF DIRECASH. CASH. SO SO SO SO SO SO SO SO SO S	OTHER S0	TOTAL SADB (41+88+ 97)	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,469 \$276,465 \$276,489 \$1,353,736 \$73
NOV. 15 DEC. 15 JAN. 10 FEB. 18 MAR. 16 APR. 16 MAY 16 JUN. 16 JUN. 18 JUN. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	TOTAL SADB (41+88+ 97)	BMGTC (29+38+68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,469 \$278,650 \$206,565 \$278,489 \$1,353,736 \$73
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 APR. 18 JUL. 16 AUG. 16 SEP. 18 COLUMN MONTH NOV. 15 DEC. 15 JAN. 16	CALC. OF DIREC CASH CASH S0 S0 S0 S0 S0 S0 S0 S0 S0	OTHER S0	TOTAL \$ADB (41+80+ 67)	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$270,803 \$278,903 \$278,595 \$278,489 \$1,353,736 TOTAL STF BMGTC (45+54+ 72) \$0 \$1,318 \$428,800
NOV. 15 DEC. 15 JAN. 10 FEB. 10 MAR. 16 APR. 16 MAY 16 JUL. 16 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	TOTAL SADB (41+88+ 97) S0	BMGTC (29+38+68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 APR. 18 JUL. 18 AUG. 16 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER S0	TOTAL SADB (41+88+ 67) 50 50 50 50 50 50 50 50 50 50 50 50 72 TOTAL SADB (41+50+ 51) 50 50 50 50 50 50 50 50 50 50 50 50 50	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 APR. 18 JUL. 18 AUG. 16 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER	TOTAL SADB (41+88+ (47) S0	BMGTC (29+38+68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 MAY 18 JUL. 16 AUG. 16 SEP. 19 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 APR. 16	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER S0	TOTAL SADB (41+88+ 67) 50 50 50 50 50 50 50 50 50 50 50 50 50	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$279,083 \$279,083 \$279,655 \$278,489 \$1,353,736 \$73 \$\$TOTAL STF BMGTC (45+54+ 72) \$0 \$1,318 \$428,890 \$0 \$99,738 \$100,447
NOV. 15 DEC. 15 JAN. 10 FEB. 18 MAR. 16 APR. 16 MAY 16 JUL. 16 JUL. 18 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAY 16 JUN. 16 JUN. 17 JUN. 18	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER	TOTAL SADB (41+88+ 67) S0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 MAY 18 JUL. 16 JUL. 16 AUG. 16 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 APR. 16 APR. 16 APR. 16 JUL. 18 JUL. 18 MAR. 18 JUL. 18 JUL. 18 JUL. 18	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER S0	TOTAL SADB (41+88+ 67) 50 50 50 50 50 50 50 50 50 50 50 50 50	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,469 \$274,650 \$276,550 \$266,565 \$276,489 \$1,353,736 \$73
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 16 APR. 16 APR. 16 JUL. 16 AUG. 16 SEP. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 MAR. 16 MAR. 16 MAR. 16 JUL. 16 JUL. 16 AUG. 16 AUG. 16	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER	TOTAL SADB (41+88+ (97) S0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$279.063 \$278.650 \$280.565 \$278.489 \$1,353,736 \$73 \$70 \$1,318 \$428.890 \$1,318 \$428.890 \$131,841 \$132,190
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 MAY 18 JUL. 16 JUL. 16 AUG. 16 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 APR. 16 APR. 16 APR. 16 JUL. 18 JUL. 18 MAR. 18 JUL. 18 JUL. 18 JUL. 18	CALC. OF DIREC CASH CASH S0 S0 S0 S0 S0 S0 S0 S0 S0	OTHER	TOTAL SADB (41+88+ (47) S0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,469 \$274,650 \$276,550 \$266,565 \$276,489 \$1,353,736 \$73
NOV. 15 DEC. 15 JAN. 18 FEB. 18 MAR. 18 APR. 18 MAY 18 JUL. 16 AUG. 16 SEP. 18 OCT. 18 TOTAL COLUMN MONTH NOV. 15 DEC. 15 JAN. 16 APR. 16 APR. 16 APR. 16 JUL. 16 APR. 16	CALC. OF DIRE CASH OUT S0 S0 S0 S0 S0 S0 S0 S0 S0 S	OTHER S0	TOTAL SADB (41+88+ (47) S0	BMGTC (29+38+ 68) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$274,690 \$274,690 \$274,650 \$276,540 \$1,353,736 \$10,447 \$127,928 \$131,841 \$132,190 \$127,928

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	(81+65+69+73)
NOV. 15	\$2,556,265
DEC. 15	\$2,597,772
JAN. 16	\$3,020,583
FEB. 16	\$2,439,369
MAR. 16	\$2,580,212
APR. 16	\$1,454,704
MAY 16	\$1,023,793
JUN. 16	\$1,267,830
JUL. 16	\$1,322,901
AUG. 16	\$1,374,733
SEP, 16	\$1,340,085
OCT. 16	\$2,102,647
TOTAL	\$23.080.874

TOTAL	MONTH NOV. 15 DEC. 15 DEC. 15 JEN. 16 FEB. 16 APR. 16 APR. 16 APR. 16 JUL. 16 JUL. 16 JUL. 16 SEP. 16 SEP. 16	COLUMN	TOTAL	MONTH NOV. 15 DEC. 15 DEC. 15 DEC. 15 ANA 16 FEB. 16 APR. 16 A		COLUMN	TOTAL	FEB. 16 MAR. 16 APR. 16 APR. 16 JUN. 16 JUN. 16 JUN. 16 SEP. 16	MONTH NOV. 15 DEC. 15	COLUMN	TOTAL	MONTH NOV. 15 DEC. 15 JAN. 16 FEB. 16 MAR. 16 MAY. 16 MAY. 16 JUL. 16 JUL. 16 SEP. 16	COLUMN
(\$7,152)	TOTAL SADB (83,455) (\$895) (\$124) \$5111 (\$1,091) \$1,112 \$1,112 \$1,752 \$1,752 \$1,762 \$1,763 \$1,763 \$1,763 \$1,763 \$1,763 \$1,763	114		F1-A ZONE DEMAND CHARGE S5 5272		101		\$10.8611 \$10.8611 \$10.8611 \$10.8611 \$10.8611 \$10.8611 \$10.8611 \$10.8611	FT-A ZONE DEMAND CHARGE \$10.6811 \$10.6811	88		CHARGE S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598 S15.598	75
\$3,946,312	TOTAL BM/TGPL) (87+100+113+114) \$337,857 \$302,083 \$321,004 \$321,004 \$311,002 \$311,002 \$313,004 \$314,01	115	0	ZONE 2 DEMAND CHARGE CONTRACT DEMAND 2 DEMAND 3 0 0 0 0 0 0 0 0 0 0 0 0	CA	102	0	00000000	CALCULATION CONTROCT TOTA CONTRACT CONTRACT CONTRACT TOTA CONTRACT C	89	240,000	CONTRACT E Z0000 30 20,000 4 20,000 4 20,000 5 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000 6 20,000	76
	,		\$0	ES TOTAL (101/102) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	LCULATION OF BA	103	\$0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	[의 그레이어	90	\$3,742,844	TOTAL (75x78)	77 ATION OF
				F1-A 20 COMMODI CHARK \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	CALCULATION OF	104		\$0.0154 \$0.0154 \$0.0154 \$0.0154 \$0.0154 \$0.0154 \$0.0154 \$0.0154	BASE TARIFF RATES FT-A ZONE 1 C COMMODITY CHARGE \$0.0154 \$0.0154	91 CAI CUI ATION OF		COMMADDITE COMMADDITE SOUTH SO	78 79 80 81 92 CALCULATION OF TENNESSEE CAS PIPELINE FT-A SERVICE (ZONE 9) PORTION OF BMOTO BASE TARIFF BATES CALCULATION
			0	NE 2 COMMODITY CHARGES OTHER CONTINUES TO	ON OF TENNESSEE GAS	105	0	000000000	COMMODITY CHARG CITY-GATE DELIVERIES	92	5,203,089	CITY-GATE DELIVERIES	79 F TENNESSEE GA
			\$	<u>\$</u> 3!	R	106	\$0	888888888 888	(GES TOTAL (91x82) 50 \$0	93	\$95,738	TOTAL (19879)	80 S PIPELINE FT-A S
				EPOR ADJUSTMENT CHARGE (155 \$3,0015 \$3,0015 \$3,0015 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006 \$3,0006	FT-A SERVICE (ZONE 2) PORTION OF BMGTC	107		\$00242 \$00242 \$00122 \$00122 \$00122 \$00122 \$00122 \$00122 \$00122 \$00122 \$00122	HARGES EPOR ADJUSTMENT OALCULATION TOTAL SPOR ADJUSTMENT OTAL (9182) CHARGE (9244) (9182) S00242 \$0 50 \$00242 \$0 50 \$00242 \$0	94 ERVICE (70NE 1)		EPOR CHARGE (C) SOCIETY SOCIET	81 ERVICE (ZONE 0)
			\$0	3TMENT TOTAL (105x107). 50 50 50 50 50 50 50 50 50 50 50 50 50	ORTION OF BMG	108	\$0	S S S S S S S S S S S S S S S S S S S	CALCULAT STMENT TOTAL (92x94) \$0 \$0	95	\$107,560	TOTAL (76x81) \$17,520 \$17,520 \$19,000 \$11,600 \$11,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$6,424 \$6,424 \$6,424 \$6,414	82 PORTION OF BMG CALCULA
				CHARGE (1950) CHARGE (1950) S0,0014	TON OF SURCHAR	109		\$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014	TION OF SURCHARGES ACA ACA CHARGE CHARGE \$0.0014	ਨ 8		CHARGE \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014 \$0.0014	83 8
			SO	(105,100) (105,1		110	\$0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		97	\$7,222	TOTAL (79-63) \$9-40 \$429 \$429 \$563 \$563 \$563 \$563 \$5640 \$840 \$840 \$840 \$840 \$840 \$840	84 RGES AND DIRECT
			\$6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BILIS	11	\$0	ୟ ର ର ର ର ର ର ର	DIRECT BILLS 1. OTHER 30 50 50 50 50	98	şo	OTHER 50 50 50 50 50 50 50 50 50 50 50 50 50	1.Bil.LS 85
			\$0	TOTAL S&DB (108 + 110 + 111) 30 50 50 50 50 50 50 50 50 50 50 50 50 50		112	\$0	& & & & & & & & & & & & & & & & & & &	TOTAL S&DB (95 + 97 + 98) \$0	99	\$114,782	(10 IAL Satular (162 IAL Satular (162 IAL Saturar (162 IA	%
			\$0	FT-A ZNAC BMGTC (103+106+112) 50 50 50 50 50 50 50 50 50 50 50 50 50	TOTAL	113		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		100	\$3,953,464	F 1-A Z/N-0 BMGTC (77-80-198) \$320,938 \$341,312 \$331,512 \$331,512 \$331,612 \$331,612 \$331,612 \$332,612 \$333,002 \$333,002 \$333,240	87 TOTAL

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

COLUMN	116	117	118	119
		OF PIPELINE BENC	HMARKS	
	TOTAL	TOTAL		
	BM(TGT)	BM(TGPL)	TOTAL	TABMGTC
MONTH_	COL. 74	COL. 115	BM(PPL)*	(116+117+118)
NOV. 15	\$2,556,265	\$337,857	\$0	\$2,894,122
DEC. 15	\$2,597,772	\$326,853	\$0	\$2,924,625
JAN. 18	\$3,020,563	\$341,994	\$0	\$3,362,557
FEB, 16	\$2,439,369	\$332,023	\$0	\$2,771,392
MAR. 16	\$2,580,212	\$321,601	\$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. 16	\$1,267,830	\$334,384	\$0	\$1,602,194
JUL, 16	\$1,322,901	\$334,416	\$0	\$1,657,317
AUG, 16	\$1,374,733	\$331,641	\$0	\$1,706,374
SEP. 16	\$1,340,085	\$328,001	\$0	\$1,668,086
OCT. 18	\$2,102,847	\$332,628	\$0	\$2,435,273
TOTAL	\$23.080.874	\$3.946.312	\$0	\$27,027,188

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

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

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

COLUMN 1		2	3
			TOTAL ANNUAL
			ACTUAL GAS
	ACTUAL PIPELINE	ACTUAL ANNUAL	TRANSPORTATION
	TRANSPORTATION	GAS TRANSPORT.	COSTS ("TAAGTC")
<u>MONTH</u>	COSTS - TEXAS GAS	COSTS - TENNESSEE	(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)
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

Texas Gas Transmission, LLC 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 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
Overrún	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

Texas Gas Transmission, LLC FERC NGA Gas Tariff 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]

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

Minimum Rates: Demand \$-0-

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

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

Notes:

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

Texas Gas Transmission, LLC FERC NGA Gas Tariff Fourth Revised Volume No. 1 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

Currently Effective Rates - STF Version 5.0.0

Section 4.2

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 <u>Rates [1]</u>	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
3-3	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 intra-zone transportation, whether such intra-zone 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 Supersedina Eighth Revised Sheet No. 14

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES RATE SCHEDULE FOR FT-A

=======================================	=========	 =========	

Base Reservation Rates	DECEIST				DELIVER	Y ZONE			
	RECEIPT 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	\$8.3417	4115255	\$7.9962	\$10.6413	\$15.0745	\$14.8460	\$16.7429	\$20.5878
	2	\$15.5759		\$10.5774	\$5.5014	\$5.1427	\$6.5803	\$9.0504	\$11.6830
	3	\$15.8514		\$8.3784	\$5.5458	\$4.0009	\$6.1457	\$11.1149	\$12.843
	4	\$20,1259		\$18.5544	\$7.0708	\$10.7456	\$5.2598	\$5.6884	\$8.126
	5	\$23.9973		\$16.8625	\$7.4172	\$8.9748	\$5,8432	\$5.4810	\$7.135
	6	\$27.7603		\$19.3678	\$13.3296	\$14.6845	\$10,3726	\$5.4568	\$4.723
Daily Base									
Reservation Rate 1/					DELIVER	Y ZONE			
	RECEIPT								
	ZONE	0	L	1	2	3	4	5	6
	0	\$0.1822		\$0.3807	\$0.5121	\$0.5211	\$0.5726	\$0.6078	\$0.7626
	L		\$0.1617						
	1	\$0.2742		\$0.2629	\$0.3499	\$0.4956	\$0.4881	\$0.5505	\$0.6769
	2	\$0.5121	•	\$0.3478	\$0.1809	\$0.1691	\$0,2163	\$0.2975	\$0.3841
	3	\$0.5211		\$0.2755	\$0.1823	\$0.1315	\$0.2021	\$0.3654	\$0.4223
	4	\$0.6617		\$0,6100	\$0,2325	\$0.3533	\$0.1729	\$0.1870	\$0.2672
	5	\$0.7890		\$0.5544	\$0.2439	\$0.2951	\$0.1921	\$0.1802	\$0.2346
	6	\$0.9127		\$0.6367	\$0.4382	\$0.4828	\$0.3410	\$0.1794	\$0.1553
Maximum Reservation	,								
Rates 2/, 3/	•		٠		DELIVER	Y ZONE			
	RECEIPT								
	ZONE	0	L	1	2 	3 . 	4 	5 	6
	0	\$5.5609		\$11.5992	\$15.5956	\$15.8712	\$17.4373	\$18.5077	\$23.215
	L		\$4.9391						
	1	\$8.3615		\$8.0160	\$10.6611	\$15.0943	\$14.8658	\$16.7627	\$20.607
		\$15.5957		\$10.5972	\$5.5212	\$5.1625	\$6.6001	\$9.0702	\$11.702
	3	\$15.8712		\$8.3982	\$5.5656	\$4.0207	\$6.1655	\$11.1347	\$12.863
		\$20.1457		\$18.5742	\$7.0906	\$10.7654	\$5.2796	\$5,7082	\$8.146
	5	\$24.0171		\$16,8823	\$7.4370	\$8.9946	\$5.8630	\$5,5008	\$7,155
	6	\$27.7801		\$19,3876	\$13.3494	\$14.7043	\$10.3924	\$5.4766	\$4,743

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

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

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

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES RATE SCHEDULE FOR FT-A

=======================================

Base Reservation Rates		_		·	DELIVE	RY ZONE			
	- RECEIPT ZONE	0	L.	1	2	3	4	5	6
	0	\$5 . 5411	#4 0103	\$11.5794	\$15 . 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	\$4.9193	\$7.9962 \$10.5774 \$8.3784 \$18.5544 \$16.8625 \$19.3678	\$10.6413 \$5.5014 \$5.5458 \$7.0708 \$7.4172 \$13.3296	\$15.0745 \$5.1427 \$4.0009 \$10.7456 \$8.9748 \$14.6845	\$14.8460 \$6.5803 \$6.1457 \$5.2598 \$5.8432 \$10.3726	\$16.7429 \$9.0504 \$11.1149 \$5.6884 \$5.4810 \$5.4568	\$20.5878 \$11.6830 \$12.8437 \$8.1265 \$7.1353 \$4.7237
		٠,							
Daily Base Reservation Rate 1/	0505107	_			DELIVER	RY ZONE			
	RECEIPT 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/					DELIVER'	Y ZONE			
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	O L	\$5.5814	\$4.9596	\$11.6197	\$15.6161	\$15.8917	\$17.4578	\$18.5282	\$23.2362
	1 2 3 4 5	\$8.3820 \$15.6162 \$15.8917 \$20.1662 \$24.0376 \$27.8006	+ 115050	\$8.0365 \$10.6177 \$8.4187 \$18.5947 \$16.9028 \$19.4081	\$10.6816 \$5.5417 \$5.5861 \$7.1111 \$7.4575 \$13.3699	\$15.1148 \$5.1830 \$4.0412 \$10.7859 \$9.0151 \$14.7248	\$14.8863 \$6.6206 \$6.1860 \$5.3001 \$5.8835 \$10.4129	\$16.7832 \$9.0907 \$11.1552 \$5.7287 \$5.5213 \$5.4971	\$20.6281 \$11.7233 \$12.8840 \$8.1668 \$7.1756 \$4.7640

Notes:

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

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 1/ 2/

Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions 3/ 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				D	ELIVERY 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 2	\$0.0042 \$0.0167	\$0.0012	\$0.0081 \$0.0087	\$0.0147 \$0.0012	\$0.0179 \$0.0028	\$0.2269 \$0.0734	\$0.2313 \$0.1178	\$0.2641 \$0.1305
	3 4	\$0.0207 \$0.0250		\$0.0169 \$0.0205	\$0.0026 \$0.0087	\$0.0002 \$0.0105	\$0.0982 \$0.0454	\$0.1358 \$0.0642	\$0.1482 \$0.1041
	5	\$0.0284 \$0.0346		\$0.0256 \$0.0300	\$0.0100 \$0.0143	\$0.0118 \$0.0163	\$0.0639 \$0.0984	\$0.0633 \$0.0533	\$0.0787 \$0.0324
Minimum									
Commodity Rates 1/, 2/	DECEIDI				ELIVERY ZO	NE			
	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	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210 \$0.0056	\$0.0256 \$0.0100	\$0.0300 \$0.0143
	2	\$0.0167 \$0.0207		\$0.0087 \$0.0169	\$0.0012 \$0.0026	\$0.0028 \$0.0002	\$0.0036	\$0.0100	\$0.0143
	4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
	5	\$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/	DECEMB				ELIVERY ZO	NE			
	ZONE	0	L	1	2	3	4	5	6
	0	\$0.0039	+0.0010	\$0.0122	\$0.0184	\$0.0226	\$0.2675	\$0.2553	\$0.3037
	L 1	\$0.0049	\$0.0019	\$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 \$0.0540	\$0.0794 \$0.0331
	6	\$0.0353		\$0.0307	\$0.0150	\$0.0170	\$0.0991	φ0.0540	\$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 Effective: November 1, 2015 Docket No. RP15-1293-000 Accepted: October 8, 2015

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

RATES PER DEKATHERM

COMMODITY RATES DATE COVEDUILE FOR ET-A

ICATE SCIEDULE FORTE A
*======================================

Base Commodity Rates				I	DELIVERY ZO	ONE			
	RECEIP ZONE	r	L	1	2	3	4	5	6
	0	\$0,0032	#0 0017	\$0.0115	\$0.0177	\$0.0219	\$0.2668	\$0.2546	\$0.3030
	L 1 2 3	\$0.0042 \$0.0167 \$0.0207	<u>\$</u> 0.0012	\$0.0081 \$0.0087 \$0.0169	\$0.0147 \$0.0012 \$0.0026	\$0.0179 \$0.0028 \$0.0002	\$0.2269 \$0.0734 \$0.0982	\$0.2313 \$0.1178 \$0.1358	\$0.2641 \$0.1305 \$0.1482
	4 5 6	\$0.0250 \$0.0284 \$0.0346		\$0.0205 \$0.0256 \$0.0300	\$0.0087 \$0.0100 \$0.0143	\$0.0105 \$0.0118 \$0.0163	\$0.0454 \$0.0639 \$0.0984	\$0.0642 \$0.0633 \$0.0533	\$0.1041 \$0.0787 \$0.0324
Minimum									
Commodity Rates 1/, 2/	DECEIDI	-		2	DELIVERY ZC	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	\$0.0042 \$0.0167 \$0.0207		\$0.0081 \$0.0087 \$0.0169	\$0.0147 \$0.0012 \$0.0026	\$0.0179 \$0.0028 \$0.0002	\$0.0210 \$0.0056 \$0.0081	\$0.0256 \$0.0100 \$0.0118	\$0.0300 \$0.0143 \$0.0163
	4 5	\$0.0250 \$0.0284		\$0.0205 \$0.0256	\$0.0087 \$0.0100	\$0.0105 \$0.0118	\$0.0028 \$0.0046	\$0.0046 \$0.0046	\$0.0092 \$0.0066
	6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020
Maximum Commodity Rates 1/, 2/, 3/				D	ELIVERY ZO	NE			
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	0	\$0.0047	φο οοοσ	\$0.0130	\$0.0192	\$0.0234	\$0.2683	\$0.2561	\$0,3045
	L 1 2	\$0.0057 \$0.0182	\$0.0027	\$0.0096 \$0.0102	\$0.0162 \$0.0027	\$0.0194 \$0.0043	\$0.2284 \$0.0749	\$0.2328 \$0.1193	\$0.2656 \$0.1320
	3 4 5	\$0.0222 \$0.0265 \$0.0299		\$0.0184 \$0.0220 \$0.0271	\$0.0041 \$0.0102 \$0.0115	\$0.0017 \$0.0120 \$0.0133	\$0.0997 \$0.0469 \$0.0654	\$0.1373 \$0.0657 \$0.0648	\$0.1497 \$0.1056 \$0.0802
1	6	\$0.0299		\$0.0271	\$0.0158	\$0.0178	\$0.0999	\$0.0548	\$0.0339

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

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/		DELIVERY ZONE							
· · · · · · · · · · · · · · · · · · ·	RECEIPT 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%	0.1070	0.77%	1.32%	1.58%	1.93%	2.34%	2.66%
	2	1.56%		0.82%	0.18%	0.32%	0.58%	0.97%	1.30%
	3	1.91%		1.58%	0.32%	0.10%	0.80%	1.14%	1.50%
	. 4	2.28%		1.80%	0.81%	0.97%	0.33%	0.50%	0.85%
	5	2.64%		2.39%	0.97%	1.15%	0.49%	0.49%	0.62%
	. 6	3.14%		2.66%	1.31%	1.50%	0.80%	0.39%	0.21%

				-						
EPCR 3/, 4/			DELIVERY ZONE							
	RECEIPT ZONE	0	L	1	2	. 3	4	5	6 .	
		\$0.0025	\$0.0008	\$0.0095	\$0.0147	\$0.0183	\$0.0221	\$0.0251	\$0.0301	
	1	\$0.0033	\$0.000	\$0.0067	\$0.0122	\$0.0149	\$0.0185	\$0.0227	\$0.0260	
	. 2 . 3	\$0.0147 \$0.0183		\$0.0072 \$0.0149	\$0.0008 \$0.0022	\$0.0022 \$0.0000	\$0.0048 \$0.0070	\$0.0087 \$0.0104	\$0.0120 \$0.0138	
	4 5	\$0.0221 \$0.0251		\$0.0171 \$0.0227	\$0.0071 \$0.0087	\$0.0086 \$0.0104	\$0.0023 \$0.0039	\$0.0040 \$0.0039	\$0.0075 \$0.0052	
• •	6	\$0.0231		\$0.0227	\$0.0007	\$0.0138	\$0.0070	\$0.0029	\$0.0011	

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.

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/	2505127		DELIVERY ZONE									
	RECEIPT ZONE	0	L	1	2	3	4	5	6			
	0	0.48%	0.35%	1.05%	1.46%	1.75%	2.05%	2,29%	2.68%			
	1	0.55%	0.5570	0.82%	1.26%	1.48%	1.77%	2.09%	2.36%			
	2	1.46%		0.86%	0.34%	0.46%	0.67%	0.99%	1.26%			
	3	1.75%		1.48%	0.46%	0.28%	0.85%	1.12%	1.41%			
	4	2.05%		1.65%	0.86%	0.98%	0.47%	0.60%	0.88%			
	5	2.33%		2.09%	0.99%	1.13%	0.60%	0.59%	0.70%			
	6	2.74%		2.36%	1.26%	1.41%	0.84%	0.52%	0.37%			

EPCR 3/, 4/			DELIVERY ZONE									
	RECEIPT ZONE		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	φυ.υυ.υ	\$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			

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 COSTS	S ("OOPC")		NET
	SALES REVENUE	GAS	TRANSPORT	STORAGE	OTHER	TOTAL	REVENUE ("NR")
_	("OSREV")	COSTS ("GC")	COSTS ("TC")	COSTS ("SC")	COSTS	OOPC	<u>(1 - 6)</u>
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 (Gas Supply Cost Pe	erformance-Based	Benchmarke	PTAGSC				
			Demand/C	Commodity				
			Alloc	ation				
			Demand	Commodity			(Col. 3 / 6)	
Gas Acquisition In	Gas Acquisition Index Factor				Actual Gas Costs			
GAIF .								
Demand	\$0		0.00%					
Commodity	\$1,247,474			32.38%				
Total		\$1,247,474			AGC	\$72,317,573		
		¥ · ,— · · , · · ·			,,,,,	4,,		
Transportation Index Factor					Actual Transportation Costs			
TIF	ion i doloi				, totaai i taliopoita		•	
Demand	\$2,409,158		62.54%					
Commodity	\$177,325		02.0470	4.60%				
Total	<u>Ψ177,323</u>	\$2,586,483		4.00%	TAAGTC	\$24,440,703		
IUlai		\$2,000,400			IAAGIC	Ψ24,440,103		
Off Custom Colos	Indox Costor							
Off-System Sales	muex ractor							
OSSIF	* 0							
Demand	\$0			0.4004				
Commodity	\$18,300	440.000		0.48%				
Total		\$18,300						
# / \			Total Astrod Oss Comple Ossts					
Total All PBR Factors					Total Actual Gas Supply Costs			
Demand	\$2,409,158							
Commodity	<u>\$1,443,099</u>							
TPBRR		\$3,852,257	62.54%	37.46%	TAGSC	\$96,758,276	3.98%	
וו טואוע		Ψ5,052,257	02.0470	37.7070	17.000	Ψ00,100,210	3.3070	

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%			\$750,756 \$449,685		
Total Company Portion of Savings	100.00%		CSPBR	\$1,200,441		