**IURC** PUBLIC'S EXHIBIT NO

# PUBLIC'S EXHIBIT NO. 3 GCA 150 STATISTICAL CALCULATIONS

### CAUSE NO. 37418 GCA 150 INDIANA NATURAL GAS CORPORATION

#### **GENERAL INFORMATION:**

Petition Filed:May 19, 2021Update Filed:June 8, 2021Hearing Date:June 30, 2021Estimation Months:August throughReconciliation Months:January throughPipeline Transporters:Texas Gas Transporters:

June 8, 2021 June 30, 2021 August through October 2021 January through March 2021 Texas Gas Transmission, LLC Texas Eastern Transmission Corporation ANR Pipeline

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### **ESTIMATION INFORMATION:**

August-21	Volumes in Dth	Commodity Cost per Dth	Percent of Total
Fixed Purchases	5,000	\$2.6700	27.8%
Spot Gas Purchases	13,000	\$3.0713	72.2%
Storage Gas - Withdrawals	0	\$0.0000	0.0%
Total Purchases and Withdrawals	18,000	\$2.9598	100.0%
Storage Gas - Injections	0	\$0.0000	1001070
Net Gas Available	18,000	\$2.9598	
September-21			
Fixed Purchases	10,000	\$2.5750	30.3%
Spot Gas Purchases	23,000	\$3.0659	69.7%
Storage Gas - Withdrawals	0	\$0.0000	0.0%
Total Purchases and Withdrawals	33,000	\$2.9172	100.0%
Storage Gas - Injections	0	\$0.0000	
Net Gas Available	33,000	\$2.9172	
October-21			
Fixed Purchases	15,000	\$2.6467	29.1%
Spot Gas Purchases	36,500	\$3.0843	70.9%
Storage Gas - Withdrawals	0	\$0.0000	0.0%
Total Purchases and Withdrawals	51,500	\$2.9568	100.0%
Storage Gas - Injections	0	\$0.0000	
Net Gas Available	51,500	\$2.9568	
Quarterly Total			
Fixed Purchases	30,000	\$2.6267	29.3%
Spot Gas Purchases	72,500	\$3.0761	70.7%
Storage Gas - Withdrawals	0	\$0.0000	0.0%
Total Purchases and Withdrawals	102,500	\$2.9446	100.0%
Storage Gas - Injections	0	\$0.0000	
Net Gas Available	102,500	\$2.9446	
Estimated Quarterly Sales (Dth).			102 500

Estimated Quarterly Sales (Dth):

102,500

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# BILL COMPARISONS PROPOSED VS. CURRENTLY APPROVED GCA FACTORS

### August 2021

Current Commission Approved GCA Factor (GCA 149 - May 2021)					
Increase (Decrease)			-	(\$0.1731)	
	Bill at	Bill at	-		
Consumption	Proposed	Current	Increase	Percent	
Dth	Factor	Factor	(Decrease)	Change	
5	\$43.98	\$45.08	(\$1.10)	-2.44%	
10	\$73.52	\$75.50	(\$1.98)	-2.62%	
15	\$103.07	\$105.91	(\$2.84)	-2.68%	
20	\$132.62	\$136.32	(\$3.70)	-2.71%	
25	\$162.17	\$166.73	(\$4.56)	-2.73%	
September 2021					
Petitioner's Requested GCA	A Factor (\$/Dth) - Septemb	per 2021		\$3.6500	
controller b reequebred 0 or					
<b>^</b>	. , 1	49 - May 2021)		3.4671	
Current Commission Appro	. , 1	49 - May 2021)	-	3.4671 \$0.1829	
Current Commission Appro	. , 1	49 - May 2021) Bill at	-		
Current Commission Appro	oved GCA Factor (GCA 14	• /	- = Increase		
Current Commission Appro Increase (Decrease)	oved GCA Factor (GCA 14 Bill at	Bill at	- = Increase (Decrease)	\$0.1829	
Current Commission Appro increase (Decrease) Consumption	oved GCA Factor (GCA 14 Bill at Proposed	Bill at Current		\$0.1829 Percent Change	
Current Commission Appro Increase (Decrease) Consumption Dth	oved GCA Factor (GCA 14 Bill at Proposed Factor	Bill at Current Factor	(Decrease)	\$0.1829 Percent Change 1.51%	
Current Commission Appro Increase (Decrease) Consumption Dth 5	oved GCA Factor (GCA 14 Bill at Proposed <u>Factor</u> \$45.76	Bill at Current Factor \$45.08	(Decrease) \$0.68	\$0.1829 Percent Change 1.51% 2.09%	
Current Commission Appro Increase (Decrease) Consumption Dth 5 10	oved GCA Factor (GCA 14 Bill at Proposed <u>Factor</u> \$45.76 \$77.08	Bill at Current Factor \$45.08 \$75.50	(Decrease) \$0.68 \$1.58	\$0.1829 Percent Change 1.51% 2.09% 2.36%	
Current Commission Appro Increase (Decrease) Consumption <u>Dth</u> 5 10 15	oved GCA Factor (GCA 14 Bill at Proposed <u>Factor</u> \$45.76 \$77.08 \$108.41	Bill at Current Factor \$45.08 \$75.50 \$105.91	(Decrease) \$0.68 \$1.58 \$2.50	\$0.1829 Percent Change 1.51% 2.09% 2.36% 2.51%	
Current Commission Appro Increase (Decrease) Consumption <u>Dth</u> 5 10 15 20 25	Dived GCA Factor (GCA 14 Bill at Proposed Factor \$45.76 \$77.08 \$108.41 \$139.74	Bill at Current Factor \$45.08 \$75.50 \$105.91 \$136.32	(Decrease) \$0.68 \$1.58 \$2.50 \$3.42	\$0.1829 Percent Change 1.51% 2.09% 2.36% 2.51%	
Current Commission Appro Increase (Decrease) Consumption Dth 5 10 15 20 25 October 2021	Dived GCA Factor (GCA 14 Bill at Proposed Factor \$45.76 \$77.08 \$108.41 \$139.74 \$171.07	Bill at Current Factor \$45.08 \$75.50 \$105.91 \$136.32 \$166.73	(Decrease) \$0.68 \$1.58 \$2.50 \$3.42	\$0.1829 Percent Change 1.51% 2.09% 2.36% 2.51% 2.60%	
Current Commission Appro Increase (Decrease) Consumption Dth 5 10 15 20 25 October 2021 Petitioner's Requested GCA	Bill at Proposed Factor \$45.76 \$77.08 \$108.41 \$139.74 \$171.07	Bill at Current Factor \$45.08 \$75.50 \$105.91 \$136.32 \$166.73	(Decrease) \$0.68 \$1.58 \$2.50 \$3.42	\$0.1829 Percent Change 1.51% 2.09% 2.36% 2.51% 2.60% \$3.8449	
Current Commission Appro Increase (Decrease) Consumption Dth 5 10 15 20	Bill at Proposed Factor \$45.76 \$77.08 \$108.41 \$139.74 \$171.07	Bill at Current Factor \$45.08 \$75.50 \$105.91 \$136.32 \$166.73	(Decrease) \$0.68 \$1.58 \$2.50 \$3.42	\$0.1829 Percent Change 1.51% 2.09% 2.36% 2.51% 2.60%	

	Bill at	Bill at			
Consumption	Proposed	Current	Increase	Percent	
Dth	Factor	Factor	(Decrease)	Change	
5	\$46.73	\$45.08	\$1.65	3.66%	
10	\$79.03	\$75.50	\$3.53	4.68%	
15	\$111.34	\$105.91	\$5.43	5.13%	
20	\$143.64	\$136.32	\$7.32	5.37%	
25	\$175.94	\$166.73	\$9.21	5.52%	

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# BILL COMPARISONS PROPOSED VS. PRIOR YEAR APPROVED GCA FACTORS

#### August 2021

Petitioner's Requested GCA	Factor (\$/Dth) - August	2021		\$3.2940
Prior Year Commission App	2.2096			
Increase (Decrease)				\$1.0844
	Bill at	Bill at		
Consumption	Proposed	Prior Year	Increase	Percent
Dth	Factor	Factor	(Decrease)	Change
5	\$43.98	\$38.72	\$5.26	13.58%
10	\$73.52	\$62.99	\$10.53	16.72%
15	\$103.07	\$87.26	\$15.81	18.12%
20	\$132.62	\$111.53	\$21.09	18.91%
0.5	\$162.17	\$135.80	\$26.37	19.42%
25 September 2021 Petitioner's Requested GCA 1 Prior Vear Commission App	Factor (\$/Dth) - Septemb	per 2021		\$3.6500 3.1466
September 2021 Petitioner's Requested GCA Prior Year Commission App	Factor (\$/Dth) - Septemb	per 2021		3.1466
September 2021 Petitioner's Requested GCA	Factor (\$/Dth) - Septemb roved GCA Factor (GCA	per 2021 A 146 - Septembe		
September 2021 Petitioner's Requested GCA Prior Year Commission Appr Increase (Decrease)	Factor (\$/Dth) - Septemb roved GCA Factor (GCA Bill at	per 2021 A 146 - Septembe Bill at	r 2020)	3.1466
September 2021 Petitioner's Requested GCA Prior Year Commission Appr Increase (Decrease) Consumption	Factor (\$/Dth) - Septemb roved GCA Factor (GCA Bill at Proposed	per 2021 A 146 - Septembe Bill at Prior Year	r 2020) Increase	3.1466 \$0.5034 Percent
September 2021 Petitioner's Requested GCA Prior Year Commission Appr Increase (Decrease)	Factor (\$/Dth) - Septemb roved GCA Factor (GCA Bill at	per 2021 A 146 - Septembe Bill at	r 2020)	3.1466 \$0.5034 Percent Change
September 2021 Petitioner's Requested GCA 1 Prior Year Commission Appr Increase (Decrease) Consumption Dth	Factor (\$/Dth) - Septemb roved GCA Factor (GCA Bill at Proposed Factor	per 2021 A 146 - Septembe Bill at Prior Year Factor	r 2020) Increase (Decrease)	3.1466 \$0.5034 Percent Change 5.41%
September 2021 Petitioner's Requested GCA Prior Year Commission Appr Increase (Decrease) Consumption Dth 5	Factor (\$/Dth) - Septemb roved GCA Factor (GCA Bill at Proposed <u>Factor</u> \$45.76	ber 2021 A 146 - Septembe Bill at Prior Year Factor \$43.41 \$72.36	r 2020) Increase (Decrease) \$2.35	3.1466 \$0.5034 Percent Change 5.41% 6.52%
September 2021 Petitioner's Requested GCA Prior Year Commission Appr Increase (Decrease) Consumption Dth 5 10	Factor (\$/Dth) - Septemb roved GCA Factor (GCA Bill at Proposed <u>Factor</u> \$45.76 \$77.08	ber 2021 A 146 - Septembe Bill at Prior Year Factor \$43.41	r 2020) Increase (Decrease) \$2.35 \$4.72	3.1466 \$0.5034 Percent

Petitioner's Requested GCA Fa		\$3.8449		
Prior Year Commission Approv	ved GCA Factor (GCA	A 146 - October 2	020)	2.9799
Increase (Decrease)				\$0.8650
	Bill at	Bill at		
Consumption	Proposed	Drior Voor	Increace	Dercent

Consumption	Proposed	Prior Year	Increase	Percent	
Dth	Factor	Factor	(Decrease)	Change	
5	\$46.73	\$42.58	\$4.15	9.75%	
10	\$79.03	\$70.70	\$8.33	11.78%	
15	\$111.34	\$98.82	\$12.52	12.67%	
20	\$143.64	\$126.94	\$16.70	13.16%	
25	\$175.94	\$155.06	\$20.88	13.47%	

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### ANALYSIS OF PETITIONER'S SCHEDULE 6 VARIANCE CALCULATIONS

GCA Month — Actual Gas Cost	138 Jan-18 743,867	138 Feb-18 570,861	138 Mar-18 466,426	139 Apr-18 275,770	139 May-18 79,015	139 Jun-18 62,774	140 Jul-18 66,020	140 Aug-18 70,313	140 Sep-18 122,181	141 Oct-18 208,595	141 Nov-18 472,037	141 Dec-18 686,515
Variance	(9,603)	(154,572)	85,637	(123,329)	(93,816)	(10,933)	609	4,984	(1,345)	49,922	141,507	106,550
Monthly % Variance	-1.29%	-27.08%	18.36%	-44.72%	-118.73%	-17.42%	0.92%	7.09%	-1.10%	23.93%	29.98%	15.52%
12 Mo. Avg.	1.35%	-0.48%	0.27%	-0.84%	-2.80%	-2.69%	-2.80%	-2.65%	-2.63%	-2.32%	-0.09%	-0.11%
GCA	142	142	142	143	143	143	144	144	144	145	145	145
Month	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
Actual Gas Cost	691,194	540,571	525,465	164,674	120,197	68,497	58,550	68,038	108,813	200,779	419,271	447,142
Variance	89,999	(138,361)	5,443	(120,557)	(16,352)	(2,059)	4,504	7,242	13,274	11,565	27,175	(36,397)
Monthly % Variance	13.02%	-25.60%	1.04%	-73.21%	-13.60%	-3.01%	7.69%	10.64%	12.20%	5.76%	6.48%	-8.14%
12 Mo. Avg.	2.52%	2.98%	0.82%	0.92%	2.99%	3.22%	3.33%	3.39%	3.80%	2.77%	-0.32%	-4.53%
GCA	146	146	146	147	147	147	148	148	148	149	149	149
Month	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
Actual Gas Cost	457,069	427,153	291,911	157,904	99,411	50,742	48,601	60,588	133,619	210,125	318,561	523,279
Variance	(36,618)	2,114	(3,417)	(4,598)	(18,427)	(3,269)	(4,635)	10,049	14,552	(3,251)	39,080	(39,558)
Monthly % Variance	-8.01%	0.49%	-1.17%	-2.91%	-18.54%	-6.44%	-9.54%	16.59%	10.89%	-1.55%	12.27%	-7.56%
12 Mo. Avg.	-8.84%	-4.59%	-5.28%	-1.19%	-1.27%	-1.32%	-1.66%	-1.56%	-1.50%	-2.02%	-1.66%	-1.73%
GCA	150	150	150	151	151	151	152	152	152	153	153	153
Month	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Actual Gas Cost	589,876	694,391	341,890	Арі-21	1v1ay~21	Jun-21	Jul-21	Aug-21			1407-21	
Variance	25,089	44,868	15,380									
	23,089	44,008	15,580								a a n n n n n	·······
Monthly % Variance	4.25%	6.46%	4.50%									
12 Mo. Avg.	0.47%	1.78%	2.33%									

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