# BEFORE THE NORTH CAROLINA UTILITIES COMMISSION TOCCOA NATURAL GAS DOCKET NO. G-41, SUB 58

**DIRECT TESTIMONY** 

**OF** 

Rai Trippe

September 1, 2022

- 1 Q. Mr. Trippe, please state your name, your employer and business address.
- 2 A. My name is Rai Trippe. I am employed by Municipal Gas Authority of Georgia
- 3 ("Gas Authority"). My business address is 104 TownPark Drive, Kennesaw,
- 4 Georgia 30144.

- 6 Q. In what capacity are you employed by Toccoa?
- 7 A. I am employed by the Gas Authority as a Member Support Senior Consultant. My
- 8 duties include retail rate studies and design, budget forecasting, contract
- 9 administration and negotiation, and general activities in support of our members.
- The Gas Authority serves the City of Toccoa.

11

- 12 Q. Please summarize your professional background.
- 13 A. See Exhibit 1, Biographical Sketch.

- 15 Q. What is the purpose of your testimony in this proceeding?
- A. Commission Rule R1-17(k)(6) requires Toccoa to submit to the Commission, on or
- before September 1, 2022, Toccoa's actual gas costs and volumes of purchased gas
- for the twelve-month period ended June 30, 2022, and certain other information as
- directed by the Commission. This information is contained in this direct testimony
- and the accompanying exhibits. The Rule provides for a hearing on the first
- Wednesday of November "in order to compare each LDC's prudently incurred gas
- costs recovered from all its customers that it served during the test period." Toccoa

is providing my testimony, exhibits, and schedules in compliance with this Rule. My testimony demonstrates that Toccoa's gas costs during the test period were prudently incurred and therefore meet the requirement for recovery under the Commission Rule. This is Toccoa's twenty-first proceeding under Commission Rule R1-17(k)(6) since it began gas operations.

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Q. Please describe Toccoa's gas supply policy.

Toccoa is a charter member of the Municipal Gas Authority of Georgia, the largest non-profit joint action natural gas agency in the nation. As a member of the Gas Authority, Toccoa receives all its gas supply at very competitive rates. The Gas Authority uses a portfolio approach to supply its 82 member cities' needs, relying on a combination of long-term firm supply arrangements, short-term spot market purchases, seasonal peaking and contract storage services. Specifically, the Gas Authority bills its Williams Transco supplied members at the first-of-the-month spot market index price for gas delivered into Transco at 50% of Transco Zone 3 index + 50% of Transco Zone 4 index. In addition, Toccoa participates in the Gas Authority's "Winter Hedge Program" under the Authority's Option 2; that is, Toccoa relies on the Gas Authority's advisement in locking-in future prices for a portion of their firm load (Option 3 members make their own decisions, and Option *I* members do not hedge prices). The Gas Authority's objective in hedging prices is to achieve price stability at a reasonable level for its members' retail customers. This was accomplished by locking-in futures prices that averaged 21.6 % of their for November 2021 – March 2022. See confidential <u>Exhibit 3</u> for November through March hedge volumes, and to see the hedge volumes as a percentage of firm sales during the review period. At the time that these hedge volume decisions were made, Toccoa chose to adopt more conservative hedge volumes for their participation in the Winter Hedge Program because market and future pricing was significantly less than it had been at the time the previous Winter Hedge Program volumes were put in place. Large industrial customers may make their own hedging decisions if they choose to do so. Because of its participation in Gas Authority, Toccoa's "gas supply policy" is the same as that of the Gas Authority.

A.

Q. What are some of the challenges in the development and implementation of Toccoa's gas supply strategy, if any?

Because of the experience, expertise, and resources of the Gas Authority, gas supply is not a problem for Toccoa. Through the Gas Authority's efforts, Toccoa is assured adequate, dependable, and economical gas supplies. One of the challenges for Toccoa is explaining to customers swings and spikes in the wholesale cost of natural gas. Although hedging helps manage this volatility, it can create its own challenges. Some customers have unrealistic expectations of the benefits of hedging because a common benchmark for evaluating hedged prices is the actual spot market price. This can be an unfair measure because it is only available after the fact and assumes the goal of hedging is "to beat the market."

1		The principal goal of hedging is to achieve price stability at a reasonable level for
2		the consuming public. The Gas Authority's "Winter Hedge Program" helps
3		achieve this goal.
4		
5	Q.	Has there been any significant change to Toccoa's gas supply strategy or source
6		during the test year?
7	A.	No.
8		
9	Q.	Please describe Toccoa's interstate capacity.
10	A.	Toccoa currently contracts for firm transportation (FT) capacity or
11		Transcontinental Gas Pipeline/Williams (Transco), as well as an additional
12		liquefied natural gas storage service agreement with Pine Needle LNG Company
13		LLC. Further, through participation in the Gas Authority, Toccoa has access to
14		other members' available pipeline capacity.
15		
16	Q.	With this approach, does Toccoa have the flexibility to meet its market
17		requirements?
18	A.	Absolutely.
19		
20	Q.	How does Toccoa participate in and communicate with the Gas Authority regarding
21		gas supply purchases?

1	A.	Toccoa is an active Member of the Gas Authority; therefore, no specific initiative
2		is necessary. Toccoa's management meets with the Gas Authority's staff on a
3		regular and frequent basis.
4		
5	Q.	Did Toccoa pursue capacity release options to mitigate the cost of extra demand
6		capacity?
7	A.	Yes. On behalf of Toccoa, the Gas Authority released a portion of Toccoa's
8		unutilized capacity each month of the fiscal period. Total demand cost savings
9		generated during the period of July 2021 - June 2022 totaled \$25,113. This
10		released capacity that generated the demand savings encompassed production area
11		and market area FT capacity contracted by Toccoa on Transco.
12		el .
13	Q.	Did Toccoa follow the gas cost accounting procedures prescribed by Rule R1-17(k)
14		for the year ended June 30, 2022?
15	A.	Yes.
16		
17	Q.	In following Section (5)(c) of the Rule, Toccoa was responsible for reporting gas
18		costs and deferred account activity to the Commission and the Public Staff monthly.
19		Are you aware of any outstanding issues regarding these reports?
20	A.	No.

22

Q. What schedules have you caused to be prepared?

A. Exhibit 2, confidential Exhibit 3, and confidential Schedules 1 – 10 which includes
 the Deferred Account Summary.

3

What activity occurred in the deferred account during the twelve months ended

June 30, 2022?

6 A. Toccoa began the review period with a balance of (\$46,680) owed to firm 7 customers. On January 31, 2022, the Commission issued ORDER ON ANNUAL 8 REVIEW OF GAS COSTS in Docket No. G-41, Sub 56, directing Toccoa to 9 implement a new temporary rate decrement of \$0.4470 per dth in the North 10 Carolina firm service rates effective the first day of the month following the date of 11 the Commission's Order. Toccoa desired to rely on the Deferred Account process 12 and tracking method such that the forecasted Deferred Account balance at the end 13 of the current review period would be as close to zero as practical. The Deferred 14 Account balance was closely monitored as each monthly Deferred Account update 15 was filed in anticipation that the effective rate decrement would decrease the 16 balance owed to customers without causing a swing to a balance owed to Toccoa. 17 Although the monthly balances owed to customers from July 2020 through October 18 2021 were somewhat stable and similar going into the winter season, the Deferred 19 Account Balance ending June 30, 2022, was (\$82,795). I refer you to confidential 20 Schedule 8 for specific tracking.

1 Q. The attached confidential schedules show the gas costs incurred by Toccoa and 2 billed to customers during the period July 1, 2021, through June 30, 2022. In your 3 opinion, were all these gas costs prudently incurred? 4 A. Yes. 5 6 Q. What action does Toccoa request the Commission take regarding the deferred 7 accounts? 8 A. Toccoa requests that the Commission approve the June 30, 2022, balance and find 9 that Toccoa's gas purchases were prudent during the relevant twelve-month period. 10 11 Has Toccoa taken any steps recently to enable it to manage its deferred account Q. 12 more effectively? 13 Toccoa filed monthly Deferred Account Summary reports in a timely manner as A. 14 required. No new steps or actions were undertaken. 15 16 Please describe the current requirement for the interest rate applied to Toccoa's Q. 17 Deferred Gas Cost Account. 18 A. On October 1, 2016, Toccoa began calculating interest on its Deferred Gas Cost 19 Account (Deferred Account). The interest rate applied to Toccoa's Deferred 20 Account for amounts over-collected or under-collected from the North Carolina 21 firm sales customers was established in G-41, Sub 0, and approved by the

December 8, 1998, Order granting Toccoa and the Municipal Gas Authority of

1	Georgia a Certificate of Public Convenience and Necessity (CPCN). Toccoa's
2	Deferred Account interest rate proposed by Public Staff is the overall rate of return
3	Toccoa has not adjusted its Deferred Account interest rate for known tax changes
4	because it is exempt from federal income tax and it does not pay income taxes in
5	North Carolina since Toccoa is a municipality.
6	
7	Q. What is the Company's authorized overall rate of return?
8	A. The rate is presently 5.83%. The interest rate has been applied to Toccoa's Deferred
9	Account during the full twelve months of the review period.
10	
11	Q. Do you believe a change to the interest rate applicable to the company's Deferred
12	Account is warranted at this time?
13	A. No.
14	
15	Q. Does Toccoa have additional comments or information to provide?
16	A. Yes. Per Order Requiring Reporting Issued in Docket G-100, Sub 91, Toccoa submits
17	the following responses.
18	
19	1. Please describe any changes in the Company's customer mix or customer market
20	profiles that it forecasts for the next ten (10) years and explain how the changes will impact

the Company's gas supply, transportation, and storage requirements.

1	Response 1: We do not forecast a significant change in Toccoa's customer mix over
2	the next ten years; however, Toccoa's gas system may experience incremental growth. The
3	general condition of the economy and more recent economic trends will impact the rate a
4	which Toccoa connects and serves new customers. Any additional growth may create a
5	need for additional firm capacity. At the appropriate time, the Gas Authority will assis
6	Toccoa in acquiring the most cost-effective combination of pipeline, storage, and peaking
7	capacity on Transco as needed.

- 2. Please identify the rate schedules and special contracts that the Company uses to determine peak day demand requirements for planning purposes.
- Response 2: The Gas Authority evaluates all firm customer classes that are part of Toccoa's total firm load in planning for peak day demand requirements. The Gas Authority's planning is based on the number of customers within each firm rate schedule, and we consider all customer requirements with exception of alternate fuel customers.

- 3. Please provide the base load demand requirements of the firm market estimated for the review period and forecasted for each of the next five (5) years.
  - Response 3: Response 1-3: We expect that Toccoa's base load demand requirements for the next five years will be sufficiently served under the demand contracts, LNG contract, and Pine Needle contract volumes shown in this summary. No Demand or Storage service changes occurred during the review period ending June 30, 2022. Volumes shown are Dth.

Description of Service	Jul- 21	Aug- 21	Sep- 21	Oct- 21	Nov- 21	Dec- 21	Jan- 22	Feb- 22	Mar- 22	Apr- 22	May- 22	Jun- 22
Cherokee - FT	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070
Sunbelt 1997 - FT	518	518	518	518	518	518	518	518	518	518	518	518
SouthCoast - FT Mainline	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105
Converted Firm Trans CFT	294	290	346	1,381	1,898	2,300	2,300	2,300	1,898	1,381	346	346
								120				( <b>*</b> )
LNG Capacity					3,105	3,105	3,105	3,105	3,105			
LNG Daily Demand					1,035	1,035	1,035	1,035	1,035			
							į	20	1.52		Ę.	
Pine Needle Capacity					2,898	2,898	2,898	2,898	2,898			

4. Please provide the one-day design peak demand requirements used by the Company for planning purposes for the review period and forecasted for each of the next five (5) winter seasons. The peak demand requirement amounts should set forth the estimated demand for each rate schedule or priority with peak day demand. All assumptions, such as heating degree-days, dekatherms per heating degree-day, customer growth rates, and supporting calculations used to determine the peak day requirement amounts should be provided.

Response 4: Toccoa's peak day and peak demand requirements are evaluated annually by the Municipal Gas Authority of Georgia staff, and an updated Winter Service Plan is produced and submitted to Toccoa each year prior to the winter season.

Please see Exhibit 4, "Municipal Gas Authority of Georgia Winter Service Plan 2021 - 2022". Gas Authority analysis uses 51 HDD's to forecast design day usage.

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5. Please describe how Toccoa determines which type of resources should be acquired or developed for meeting the Company's deliverability needs. Also, please describe the

- 1 factors evaluated in deciding whether the Company should acquire pipeline transportation
- 2 capacity, acquire a storage service, or develop additional on-system storage deliverability.
- Response 5: The Gas Authority makes these determinations based on least cost and
- 4 operational flexibility of the options available at the time new pipeline, storage, or peaking
- 5 capacity is forecasted to be necessary to meet Toccoa's firm needs. No new, additional
- 6 capacity or storage opportunities are being considered at this time.

- 8 6. Please describe how the Company determines the amount of pipeline capacity that
- 9 should be acquired for (a) the whole year, (b) the full winter season, and (c) less than the
- 10 full winter season. Also, please describe the factors evaluated in determining the
- appropriate amount and mix of service period options.
- Response 6: Each year Toccoa's capacity needs are met by their existing capacity
- agreements. Most of these contracts are in place for 15 years or more. If Toccoa exceeds
- their contract, the least expensive option will be chosen to cover that particular period.
- 15 Options include shifting capacity from another Municipal Gas Authority of Georgia
- Member city, acquiring a delivered service, incurring "penalty gas" charges, etc. However,
- 17 Toccoa has the capability to interrupt several large gas users to prevent the potential cost
- 18 of exceeding their contract. No additional capacity needs are anticipated, and no new
- 19 capacity opportunities are being considered at this time.

1	7. Please describe each new capacity and storage opportunity that the Company is
2	contemplating entering during the next five (5) year period beginning with the 2022 - 2023
3	winter season.
4	Response 7: No new, additional capacity or storage opportunities are being
5	considered at this time.
6	
7	8. Please provide a computation of the reserve or excess capacity estimated for the
8	review period and forecasted for each of the next five (5) winter seasons.
9	Response 8: Please see Exhibit 4, "Municipal Gas Authority of Georgia Winter
10	Service Plan 2021 - 2022".
11	
12	9. Please describe any significant storage, transmission, and distribution upgrades
13	required for the Company to fulfill its peak day requirements during the next five (5) years.
14	Response 9: No upgrades are anticipated at this time.
15	
16	Q. Does that conclude your testimony?

A.

Yes.

EXHIBIT 1
TESTIMONY OF R. TRIPPE
NCUC G-41, SUB 58

### **BIOGRAPHICAL SKETCH**

### Rai Trippe

Mr. Trippe serves as Member Support Senior Consultant for the Municipal Gas Authority of Georgia. His responsibilities include firm and interruptible retail rate analysis and design, gas cost and revenue budget planning, rate notification, consulting, project planning and implementation, industrial customer relations, and support services for Members of the Gas Authority. Mr. Trippe is responsible for support in all these areas for nineteen Gas Authority Members which are supplied gas through the Williams Transco Pipeline. This includes Toccoa, Georgia.

Mr. Trippe joined the Gas Authority on February 24, 2003 as a Business Analyst in the Member Support Group. Prior to a joining the Gas Authority, Mr. Trippe worked as an associate process engineer with CryoLife, Inc. of Kennesaw, Georgia where he was responsible for evaluation and maintenance of procedurally regulated production processes pertaining to biomedical device manufacturing. This included extensive documentation origination and review for regulatory agency reporting purposes. Mr. Trippe has over 36 years of business experience.

Mr. Trippe received a Bachelor of Science from Presbyterian College in Clinton, South Carolina in 1985. He is active within his church and volunteers his time and leadership abilities for church sponsored community service projects. He enjoys outdoor activities and resides in Marietta, Georgia with his wife.

Toccoa Natural Company Docket No. G-41, Sub 58

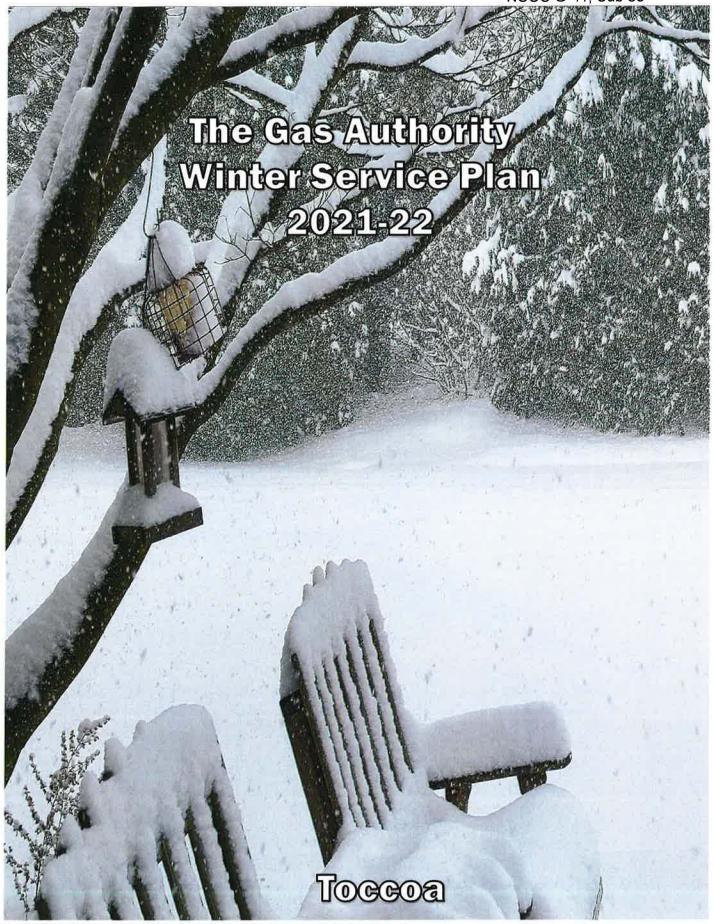
### Natural Gas Hedge Transactions

For the Twelve Month Period Ended June 30, 2022

Exhibit 2
Testimony of Rai Trippe
NCUC Doclet G-41, Sub 58

Member Hedge Program

3													
Item	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Totals
Hedged Price (\$)					\$2.6820	\$2.5870	\$2.5860	\$2.6200	\$2.5830		-		\$2.6116
Index Price (\$)					\$6.2020	\$5.4470	\$4.0240	\$6.2650	\$4.5680				\$5.3012
Net Hedged Price					(\$3.5201)	(\$2.8602)	(\$1.4376)	(\$3.6450)	(\$1.9855)				(\$2.6896
Hedged Volume (Dts)	0	0	0		7,900	12,500	11,200	8,500	5,200	0	0	0	45,300
Total Adjustment - Charge/(Credit)					(\$27,809)	(\$35,752)	(\$16,101)	(\$30,982)	(\$10,324)				(\$120,969
NC Sales Allocation Factor	16.16%	15.51%	15.49%	16.30%	14.97%	12.57%	13.74%	12.20%	12.10%	14.03%	14.13%	16.35%	
Firm Hedges - NC Portion	\$0	\$0	\$0	\$0	(\$4,163)	(\$4,494)	(\$2,212)	(\$3,781)	(\$1,249)	\$0	\$0	\$0	(\$15,899



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In advance of the 2021-22 winter season, this plan has been prepared to communicate your design day needs. Please let us know if you have any questions.

### **ACTION ITEMS**

### Feedback Requested:

Please review the Forecast Design Day on page 1 for both firm and interruptible load. Let us know if we have identified the interruptible demand (if applicable) correctly.

SUMMARY	
Design Day Summary	1
Top 20 Peak Days – Last 5 Years	2
ACTUAL HISTORY	
Interruptible Customers (If Applicable)	3
Previous Season Graph	4
FORECAST	
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FIRM SERVICES & SYSTEM PLANNING ANALYSIS	S
Summary of Contracts	
5 Year Demand and Capacity Analysis	g
CONTACT INFORMATION	10

### PHOTO CONTEST

This year's cover photo was taken by John Leary of Chambersburg, PA.

Please be on the lookout for any great winter photo opportunities this season. Submit your photos to forecasting@gasauthority.com to be entered in the contest for the 2022-23 Winter Service Plan cover photo. Employees of Member cities as well as MGAG staff are encouraged to participate. We look forward to highlighting our member cities in future years!!!

### Design Day Summary for 2021-22 Winter

Toccoa

### Actual Peak Days (see page 2 for more details)

	HDD	<u>Date</u>	<u>Dth</u>
Historical 5-Year Peak:	41	01/04/18	10,698
Last Winter Peak Day:	39	02/16/21	9,213

Note: Actual Peak Days include firm and interruptible load in dekatherms.

Customers (see page 3 for more details)		90
		Customer Count
Active meters as of 12/31/2020	Firm R&C:	6,725
	 Firm Industrial:	4#
	Interruptible:	6
	Total:	6,731

Forecasted Design Day (Dekatherms) (see page 5 for more details	)
	Design Day Forecast
Firm R&C Forecasted Load at 51 HDD	10,513
Firm Industrial Demand	
Firm Design Day	10,513
Interruptible Demand	1,315
Total Design Day Demand	11,828

# Firm Services (see page 8 for more details) 2020-21 Capacity Planned 2021-22 Pipeline Capacity 6,993 6,993 Pine Needle/LGA/GSS Storage 3,914 3,915 Winter Service Pool \* Seasonal Capacity Propane Air Plant Capacity TOTAL FIRM SERVICES 10,907 10,908

### Firm Surplus / (Deficit) 395

Note: A Member that is short Firm Services to meet the forecasted Firm Design Day need increases the likelihood of incurring pipeline penalties on cold weather days that have pipeline Operational Flow Orders (OFO's) in effect.

<sup>\*</sup> Transco delivered supply service. Pricing and terms will be sent separately

## **Top 20 Peak Days - Last 5 Years**

Toccoa

### **Degree Day**

Heating Degree Days (HDD) are defined as the number of degrees the average temperature for a day is below 65 degrees. If the average temperature is 65 degrees or warmer, there are zero heating degree days and no heating is expected for the typical home or business. As the average temperatures get colder, more and more energy is needed to maintain a comfortable interior temperature. As an example, a high temperature of 46 degrees with a low of 24 degrees will result in an average temperature of 35 degrees and 30 HDD.

### Historic Peak Days - Last 5 Years

Rank	<u>Date</u>	Day of Week	HDD	<u>Dth</u>
1	01/04/18	Thu	41	10,698
2	01/02/18	Tue	36	10,492
3	01/17/18	Wed	46	10,463
4	01/01/18	Mon	45	10,241
5	01/05/18	Fri	37	10,199
6	01/30/19	Wed	31	9,955
7	01/03/18	Wed	35	9,446
8	01/21/20	Tue	33	9,272
9	02/16/21	Tue	39	9,213
10	03/15/17	Wed	31	9,059
11	01/29/19	Tue	33	8,964
12	01/18/18	Thu	34	8,903
13	02/02/21	Tue	29	8,883
14	01/21/19	Mon	30	8,854
15	02/01/21	Mon	29	8,772
16	01/31/19	Thu	23	8,661
17	02/03/21	Wed	26	8,626
18	01/09/17	Mon	29	8,587
19	01/22/19	Tue	23	8,535
20	02/07/20	Fri	28	8,528

### **Industrial Customer Demand**

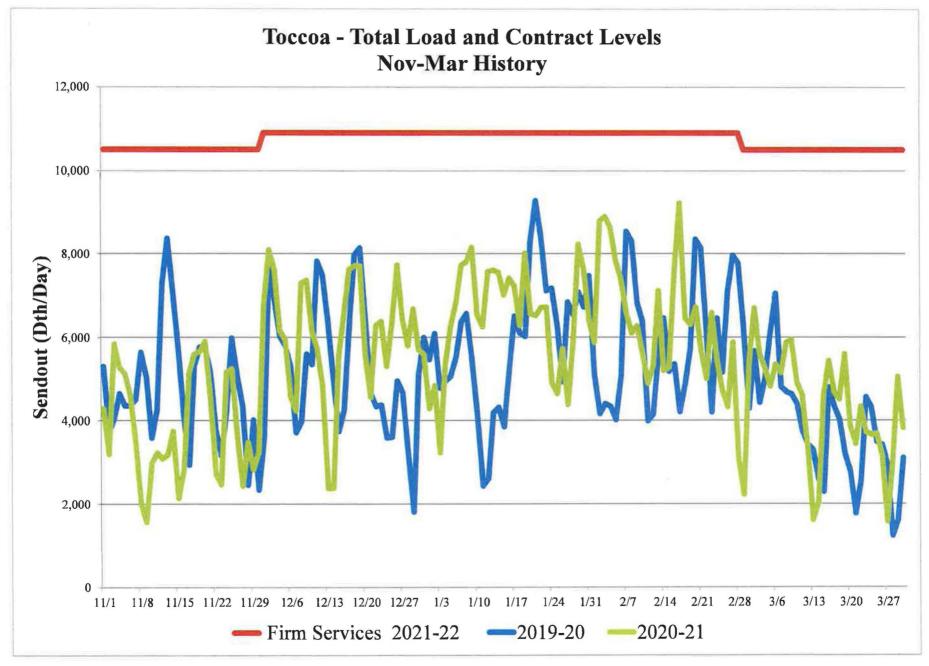
Toccoa

### **Interruptible Service**

Customers who receive all or a portion of their gas service without a guarantee of constant supply in return for a lower rate are interruptible. An interruptible customer typically has an alternate fuel that can be utilized when natural gas is curtailed. Each Gas Authority member city determines the exact curtailment procedures that apply in their respective service area. If the member city does not curtail the load as a matter of policy, the load is considered firm.

When a customer's load is classified as interruptible and subject to curtailment, that demand is not included in the firm design day requirements and capacity will not be reserved to serve them. Service will be maintained whenever possible utilizing capacity not needed for firm demand which will occur on many days.

<u>Interruptible Customers:</u> (Quantities in Dekatherms)	
Customer Name	2021-22 Design Day Forecast
Columbia Farms	36
Fieldale Farms	947
Stephens Co. Hospital	54
Dewtex, Inc.	166
Angel Medical	51
C.W. Matthews - asphalt plant	61
Total	1,315
Firm Customers: (Quantities in Dekatherms)	
<u>Customer Name</u>	2021-22 Design Day Forecast
None Reported	•
Total	



10,513

14

11,828

# 2021-22 Load Forecast Chart (Dth)

Toccoa

					Dec - Feb Total Fi	rm Services:	10,90
Heating Degr Day	ee Average Temp.	Firm Load	Total Load	Heating Degr Day	ee Average Temp.	Firm Load	Total Load
0	65	1,272	2,587	26	39	5,983	7,298
1	64	1,453	2,768	27	38	6,164	7,479
2	63	1,634	2,768	28	37	6,346	7,661
3	62	1,816	3,131	29	36	6,527	7,842
<i>3</i>	61	1,997	3,312	30	35	6,708	8,023
5	60	2,178	3,493	31	34	6,889	8,204
6	59	2,359	3,674	32	33	7,070	8,385
7	58	2,539	3,855	33	32	7,070	8,567
8	57	2,722	4,037	34	31	7,433	8,748
9	56	2,722	4,218	35	30	7,614	8,929
10	55	3,084	4,399	36	29	7,795	9,110
11	54	3,265	4,580	37	28	7,976	9,291
12	53	3,446	4,761	38	27	8,158	9,473
13	52	3,628	4,943	39	26	8,339	9,654
14	51	3,809	5,124	40	25	8,520	9,835
15	50	3,990	5,305	41	24	8,701	10,016
16	49	4,171	5,486	42	23	8,882	10,197
17	48	4,352	5,667	43	22	9,064	10,379
18	47	4,534	5,849	44	21	9,245	10,560
19	46	4,715	6,030	45	20	9,426	10,741
20	45	4,896	6,211	46	19	9,607	10,922
21	44	5,077	6,392	47	18	9,788	11,103
22	43	5,258	6,573	48	17	9,970	11,285
23	42	5,440	6,755	49	16	10,151	11,466
24	41	5,621	6,936	50	15	10,332	11,647
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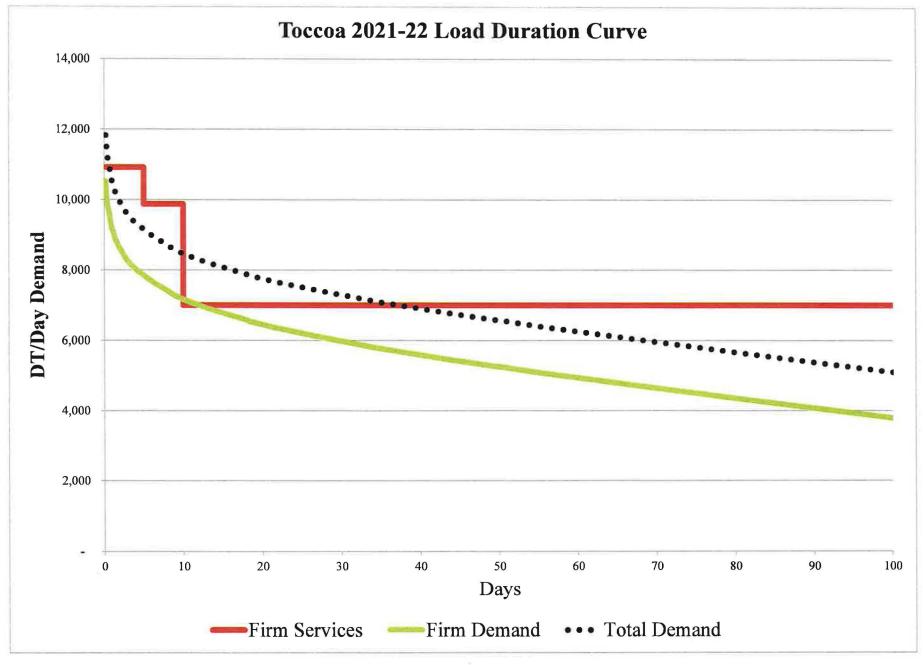
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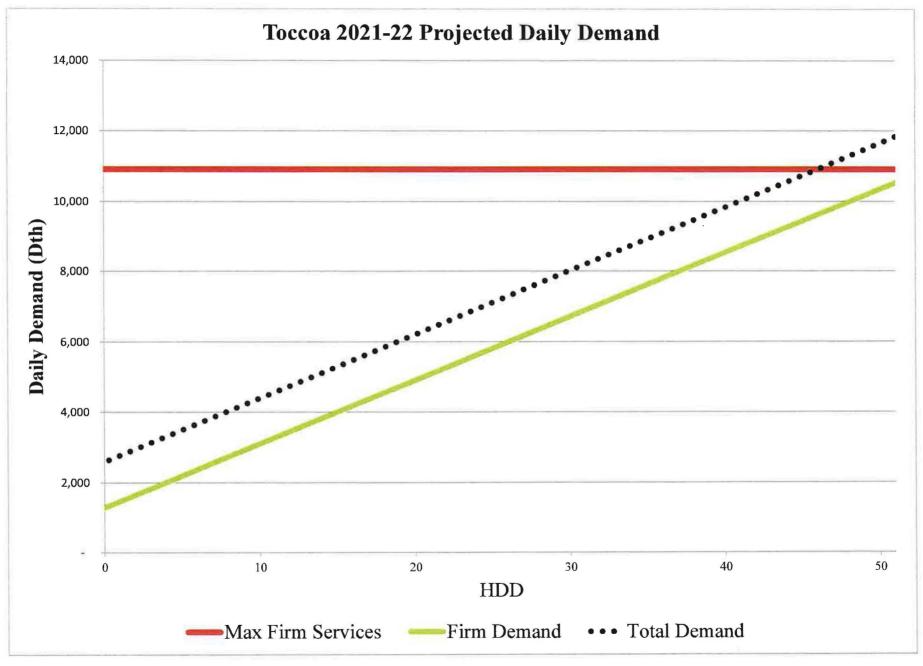
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5,802

7,117





11/1/2021

Toccoa Transco Monthly Contract Quantities (Dth)

Contract Type	<u>OCT</u>	NOV	<u>DEC</u>	JAN	FEB	MAR	<u>APR</u>	MAY	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
PSFT *	-	32	-	-	-	•	-	-		-	18	
FTG * (One Part FT)	-	-	72	4		-	-	-		-	D.	(A)
CFT *	1,381	1,898	2,300	2,300	2,300	1,898	1,381	346	346	294	290	346
IFT	-	-					*:	-	-	-		
SE94	-	-			•	-			¥	+		-
SE95/96	•	-		-		-			+	-	-	•
SFT *	+	1.5	3. <del>*</del> *			•			+	-		
Sunbelt	518	518	518	518	518	518	518	518	518	518	518	518
BG&E	/ <del>-</del>	3.5	5 = 5	(*)				4	+	-	-	(a)
Cherokee	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070
SouthCoast	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105
Sundance		0.00	380	/ <b>*</b>	120	-	2	=	2	-		
Momentum	( <del>*</del>		745	(=)	-	€.	-	9	1	-	-	
Southeastern Trail									<u> </u>	-		
Total FT	6,074	6,591	6,993	6,993	6,993	6,591	6,074	5,039	5,039	4,987	4,983	5,039
GSS - 50d	•	-		-	•	70	-	*			(*)	160
Winter Service Pool	-	-					<del>-</del>	-	-	-		: 🖛
Pine Needle - 10d		2,898	2,898	2,898	2,898	2,898			*		(J#)	
PN - Transco 5-4 Fuel	-	(18)	(18)	(18)	(18)	(18)	*	-	-		-	-
LNG - 5d		1,035	1,035	1,035	1,035	1,035						
Total Storage/Peaking	-	3,915	3,915	3,915	3,915	3,915	-	5.		-	-	S <del>-</del>
Seasonal Capacity	-	Ē	-	•	•		=	5	-			
Total Capacity (Dth/Day)	6,074	10,506	10,908	10,908	10,908	10,506	6,074	5,039	5,039	4,987	4,983	5,039

<sup>\*</sup> Capacity entitlement varies by month
\*\*Pine Needle reduced for Transco 5-4 fuel of 0.62%

MGAG 5 Year Demand and Capacity Analysis - Toccoa

				Prev Year	Year 1	Year 2	Year 3	Year 4	Year 5
	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
<b>Customer Count</b>	6,607	6,617	6,681	6,731	6,771	6,812	6,853	6,894	6,935
Growth Rate				0.7%	0.6%	0.6%	0.6%	0.6%	0.6%
Projected Design Day			HDD	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Firm Design Day Demand			51	10,069	10,505	10,569	10,632	10,696	10,759
NGV Demand				8	8	8	8	8	8
Interruptible Demand				1,497	1,315	1,315	1,315	1,315	1,315
Total Projected Design Day D	Demand			11,574	11,828	11,892	11,955	12,019	12,082
Firm Services					16.				
FT				6,993	6,993	6,993	6,993	6,993	6,993
GSS				1,€1	*	-	-	-	-
Winter Service Pool				15		-	:=:	-	-
Pine Needle				2,879	2,880	2,880	2,880	2,880	2,880
LNG/LGA				1,035	1,035	1,035	1,035	1,035	1,035
Propane Plant				-	12	-	•	-	-
Seasonal Capacity / (Share	d with Othe	ers)		-	-		-	-	-
Total Firm Services				10,907	10,908	10,908	10,908	10,908	10,908
Firm Long/(Short) Dth				830	395	331	268	204	141
				8%		3%	2%	2%	

Long - There are firm services sufficient to meet the projected firm requirements on the design day

Short - The projected firm requirements on the design day are greather than the firm services available and more capacity is recommended if available