

1 PLACE: Dobbs Building, Raleigh, North Carolina
2 DATE: Tuesday, November 4, 2019
3 TIME: 2:03 p.m. - 2:08 p.m.
4 DOCKET NO: G-41, Sub 54
5 BEFORE: Commissioner ToNola D. Brown-Bland, Presiding
6 Chairman Charlotte A. Mitchell
7 Commissioner Lyons Gray
8
9

10 **IN THE MATTER OF:**
11 Toccoa Natural Gas
12 Application for Annual Review of Gas Costs Pursuant to
13 G.S. § 62-133.4(c) and Commission Rule R1-17(k)(6).
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1 A P P E A R A N C E S:

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3 FOR TOCCOA NATURAL GAS:

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6 434 Fayetteville Street, Suite 2800

7 Raleigh, North Carolina 27601-2943

8

9 FOR THE USING AND CONSUMING PUBLIC:

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11 Public Staff - North Carolina Utilities Commission

12 4326 Mail Service Center

13 Raleigh, North Carolina 27699-4300

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T A B L E O F C O N T E N T S

E X A M I N A T I O N S :

PREFILED DIRECT TESTIMONY OF

HARRY FRANKLIN SCOTT, JR..... 8

PREFILED DIRECT TESTIMONY OF RAI TRIPPE..... 13

PREFILED JOINT TESTIMONY AND APPENDICES OF

NEHA R. PATEL, IRIS MORGAN and JULIE G. PERRY.... 27

E X H I B I T S

IDENTIFIED / ADMITTED

Scott Exhibit 1..... 8/8

Trippe Exhibits 1, 2 and 3..... 13/13

I/A

Scott

BIOGRAPHICAL SKETCH

Harry Franklin Scott, Jr.

Mr. Scott has a total of eighteen years with the City of Toccoa and has twenty years of prior natural gas experience in Florida with TECO Peoples Gas. Mr. Scott currently serves as the Utilities Director. In this position, Mr. Scott is responsible for the daily operations of all utilities provided by the City of Toccoa - the Water and Wastewater and Toccoa Natural Gas.

Toccoa Natural Gas is a regional utility covering ninety miles of transmission main, 438 miles of distribution main, 1.35 bcf annual throughput for fiscal year 2019, approximately 6,600 customers, thirty-two employees, and two office locations. We have over sixty years of operation in Georgia and North Carolina. Mr. Scott provides oversight of the entire system and employees.

Originally hired by the City of Toccoa in 2001, Mr. Scott has served in various capacities in the Natural Gas Department with positions of increasing responsibility. In addition to his experience with the City of Toccoa/Toccoa Natural Gas, Mr. Scott's background includes all facets of the natural gas business including Dispatch, Sales, Service, Installation, Conversion, Customer Service, Distribution Operations, Transmission Operations and Regulatory Compliance. After managing the northern operation for ten years, in January of 2012, Mr. Scott began his role as Utilities Director.

Harry and his wife Shaleen have four children, six grandchildren and reside in Clayton, Georgia.

BIOGRAPHICAL SKETCH

Rai Trippe

Mr. Trippe serves as Senior Business Analyst, Member Support 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 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 33 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.

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Toccoa Natural Company
Docket No. G-41, Sub 54
Natural Gas Hedge Transactions
For the Twelve Month Period Ended June 30, 2019

Teppel *I/A*
Exhibit 2

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Member Hedge Program

Item	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
Hedged Price (\$)					\$3.2000	\$3.2830	\$3.2520	\$3.0600	\$3.1250				\$3.1840
Index Price (\$)					\$3.1853	\$4.7150	\$3.6420	\$2.9500	\$2.8550				\$3.4695
Net Hedged Price					\$0.0153	(\$1.4320)	(\$0.3899)	\$0.1102	\$0.2696				(\$0.2855)
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)					\$121	(\$17,900)	(\$4,367)	\$936	\$1,402				(\$19,807)
NC Sales Allocation Factor	15.84%	17.27%	14.31%	13.67%	12.07%	13.20%	13.86%	11.87%	12.02%	13.17%	13.55%	17.68%	
Firm Hedges - NC Portion	\$0	\$0	\$0	\$0	\$15	(\$2,363)	(\$605)	\$111	\$168	\$0	\$0	\$0	(\$2,674)

Toccoa Natural Gas Company
Docket No. G-41, Sub 54
Summary of Cost of Gas
For the Twelve Month Period Ended June 30, 2019

Item	Source	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
<u>Toccoa Cost of Gas</u>														
Demand and Storage Costs	Sch 2	\$43,230	\$43,268	\$42,242	\$53,319	\$56,529	\$61,671	\$60,797	\$56,134	\$64,890	\$55,876	\$45,218	\$43,615	\$626,789
Commodity Costs	Sch 3	215,502	222,616	205,007	338,137	515,602	855,922	811,017	452,276	451,418	306,093	246,003	221,912	4,841,503
Other Cost of Gas Charges	Sch 4	(6,825)	752	441	538	(3,949)	(37,529)	(21,543)	4,063	(3,899)	3,317	1,703	1,704	(61,027)
Total Company Cost of Gas	Sum L1 thru L3	\$252,107	\$266,636	\$247,690	\$391,994	\$568,182	\$880,063	\$850,271	\$512,472	\$512,409	\$365,285	\$292,923	\$267,232	\$5,407,265
<u>NC Cost of Gas</u>														
Demand and Storage Costs	Sch 2	\$6,846	\$7,472	\$6,046	\$7,289	\$6,821	\$8,140	\$8,429	\$6,661	\$7,799	\$7,357	\$6,125	\$7,712	\$86,697
Commodity Costs Expensed	Sch 3	11,215	12,948	9,512	21,387	43,086	73,317	74,076	34,473	27,329	14,747	10,624	12,166	344,880
Other Charges (Credits)	Sch 4	-	-	-	-	15	(2,363)	(605)	111	168	-	-	-	(2,674)
Total NC Cost of Gas	Sum L5 thru L7	\$18,060	\$20,420	\$15,558	\$28,676	\$49,922	\$79,095	\$81,900	\$41,245	\$35,296	\$22,104	\$16,748	\$19,878	\$428,903

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Toccoa Natural Gas Company

Docket No. G-41, Sub 54

Demand and Storage Costs

For the Twelve Month Period Ended June 30, 2019

Schedule

Item	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
DEMAND COSTS													
Cherokee - FT	\$18,076	\$18,076	\$17,493	\$18,076	\$17,493	\$18,076	\$18,076	\$16,327	\$18,076	\$17,582	\$18,168	\$17,582	\$213,100
Converted Firm Trans. - CFT	2,655	2,619	3,023	12,470	16,585	20,768	20,768	18,758	23,105	16,353	4,234	4,097	145,436
SouthCoast - FT Mainline	10,568	10,568	10,227	10,568	10,227	10,568	10,568	9,545	10,178	9,937	10,269	9,937	123,161
Sunbelt 1997 - FT	3,347	3,347	3,239	3,347	3,239	3,347	3,347	3,023	3,055	2,978	3,078	2,978	38,327
Capacity Release Credits (save for future use)	(\$1,448)	(\$1,373)	(\$1,449)	(\$1,174)	(\$724)	(\$1,120)	(\$1,994)	(\$581)	(\$476)	(\$1,572)	(\$1,385)	(\$1,484)	(14,780)
STORAGE/PEAKING SERVICES													
LNG Capacity	645	645	624	645	624	645	645	583	982	950	982	950	8,916
LNG Daily Demand	1,116	1,116	1,080	1,116	1,080	1,116	1,116	1,008	1,699	1,644	1,699	1,644	15,436
Pine Needle Capacity (save for future use)	8,270	8,270	8,004	8,270	8,004	8,270	8,270	7,470	8,270	8,004	8,174	7,911	97,189
Total Demand and Storage Costs Expensed	\$43,230	\$43,268	\$42,242	\$53,319	\$56,529	\$61,671	\$60,797	\$56,134	\$64,890	\$55,876	\$45,218	\$43,615	\$626,789
NC Firm Sales Allocation Factor	15.84%	17.27%	14.31%	13.67%	12.07%	13.20%	13.86%	11.87%	12.02%	13.17%	13.55%	17.68%	14.04%
Total Demand and Storage Costs - NC Portion	\$6,846	\$7,472	\$6,046	\$7,289	\$6,821	\$8,140	\$8,429	\$6,661	\$7,799	\$7,357	\$6,125	\$7,712	\$86,697

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Item	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
COMMODITY COSTS INCURRED													
Authority Gas Supply FT	\$203,765	\$212,328	\$193,381	\$315,179	\$460,250	\$792,941	\$687,775	\$403,713	\$404,893	\$268,952	\$230,235	\$209,125	4,400,536
Supply Charge Based on Meters	\$2,379	\$1,566	\$2,379	\$5,550	\$7,928	\$12,685	\$15,681	\$12,705	\$8,734	\$3,970	\$3,176	\$2,382	79,355
Supply Charge Based on Throughput	\$1,685	\$1,665	\$1,651	\$2,597	\$3,701	\$4,192	\$5,055	\$3,432	\$3,600	\$2,627	\$2,242	\$1,978	34,626
Poultry Grower Program	\$155	\$752	\$441	\$538	(\$1,671)	(\$19,629)	(\$10,270)	\$2,076	\$2,125	\$1,657	\$2,513	\$1,104	(20,205)
Poultry Grower Program					\$0	\$0	\$0	\$0					-
Fieldale Farms - Industry hedge	(\$6,760)	\$0	\$0	\$0	(\$2,400)	\$0	(\$8,900)	\$1,050	(\$7,425)	\$1,650	(\$810)	\$600	(21,615)
MGAG Directed - Hedge Option 2					\$121	(\$17,900)	(\$4,367)	\$893	\$1,402				(19,807)
Authority Pine Needle Supply					10,834	3,929	21,676		4,756				41,195
FT Released Capacity Supply					6,197	11,989	31,892	3,429	6,719				60,226
STORAGE/PEAKING SERVICES													
LNG Injections					5,556	377	10,781						16,714
LNG Withdrawal													-
GENERAL & ADMINISTRATIVE CHARGES													
G&A Based on Meters	\$2,002	\$1,335	\$2,002	\$4,871	\$6,673	\$10,077	\$12,903	\$10,323	\$7,087	\$3,226	\$2,581	\$1,935	65,424
G&A Based on Total Throughput	\$3,938	\$4,327	\$3,831	\$9,025	\$8,585	\$9,728	\$11,322	\$7,888	\$9,065	\$5,885	\$5,023	\$4,431	78,817
Production Area Supply Savings													-
Swing Supply Charge-Seasonalized Contract Volume	1,763	1,178	1,763	4,115	5,878	9,405	13,732	10,988	7,553	3,433	2,746	2,060	64,610
Total System Commodity Costs Incurred	\$208,877	\$223,368	\$205,448	\$338,675	\$511,653	\$818,393	\$769,474	\$456,338	\$447,519	\$309,410	\$247,706	\$223,616	\$4,780,476
Less: Poultry & Industrial Hedging Costs - Assigned to GA Firm Market	5,625	(752)	(441)	(538)	4,071	19,629	17,178	(3,126)	5,300	(3,317)	(1,703)	(1,704)	41,220
Less: Industrial Sales Pass Through Costs - Assigned to GA Firm Market													-
Less: Firm Hedge Costs - Assigned to NC & GA Firm Market					(121)	17,900	4,367	(936)	(1,402)				19,807
Commodity Costs for Allocation to Interruptible	215,502	222,616	205,007	338,137	515,602	855,922	811,017	452,276	451,418	306,093	246,003	221,912	4,841,503
Less: Cost of Gas Allocated to Interruptible Market	(147,449)	(148,541)	(140,591)	(190,674)	(175,431)	(280,822)	(254,535)	(164,990)	(195,726)	(195,870)	(168,274)	(154,475)	(2,215,379)
Total Firm Market Commodity Cost of Gas	68,053	74,075	64,416	147,463	340,171	575,099	556,481	287,286	255,692	110,222	77,729	67,437	\$2,626,124
Sales to Purchases Conversion Factor	1.0407	1.0122	1.0318	1.0610	1.0467	0.9659	0.9601	1.0112	0.9883	1.0162	0.9837	1.0203	
Total Commodity Costs Allocable to North Carolina	70,821	74,978	66,454	156,456	357,071	555,471	534,283	290,463	227,390	112,003	78,432	68,805	2,592,666
NC Firm Sales Allocation Factor	15.84%	17.27%	14.31%	13.67%	12.07%	13.20%	13.66%	11.87%	12.02%	13.17%	13.55%	17.68%	
Total Commodity Costs - NC Portion	\$11,215	\$12,948	\$9,512	\$21,387	\$43,086	\$73,317	\$74,078	\$34,473	\$27,320	\$14,747	\$10,624	\$12,166	\$344,880

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Toccoa Natural Gas Company
Docket No. G-41, Sub 54
Other Cost of Gas Charges (Credits)
For the Twelve Month Period Ended June 30, 2019

Schedule 4

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Aug 30 2019

Line No.	Item	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
1	Firm Hedge Costs - Assigned to NC & GA Firm Market	\$0	\$0	\$0	\$0	\$121	(\$17,900)	(\$4,367)	\$936	\$1,402	\$0	\$0	\$0	(\$19,807)
2	Poultry Hedging Costs - Assigned to GA Firm Market	155	752	441	538	(1,671)	(19,629)	(10,276)	2,076	2,125	1,667	2,513	1,104	(\$20,205)
3	Industrial Hedging Costs - Assigned to GA Firm Market	(6,780)	0	0	0	(2,400)	0	(6,900)	1,050	(7,425)	1,650	(810)	600	(\$21,015)
4	Total Company Other Cost of Gas Charges (Credits)	(\$6,625)	\$752	\$441	\$538	(\$3,949)	(\$37,529)	(\$21,543)	\$4,063	(\$3,899)	\$3,317	\$1,703	\$1,704	(\$61,027)
5	Less: Poultry & Industrial Hedging Costs - GA Firm Market	6,625	(752)	(441)	(538)	4,071	19,629	17,176	(3,126)	5,300	(3,317)	(1,703)	(1,704)	\$41,220
6	Total Other Gas Costs Allocable to North Carolina	\$0	\$0	\$0	\$0	\$121	(\$17,900)	(\$4,367)	\$936	\$1,402	\$0	\$0	\$0	(\$19,807)
7	NC Firm Sales Allocation Factor	15.84%	17.27%	14.31%	13.67%	12.07%	13.20%	13.86%	11.87%	12.02%	13.17%	13.55%	17.68%	
8	TOTAL OTHER COST OF GAS CHARGES - NC PORTION	\$0	\$0	\$0	\$0	\$15	(\$2,363)	(\$605)	\$111	\$168	\$0	\$0	\$0	(\$2,674)

Toccoa Natural Gas
Docket No. G-41, Sub 54
DEMAND AND STORAGE RATE CHANGES
For the Twelve Month Period Ended June 30, 2019

Schedule 5

Line No.	Effective Date of Change	FERC Docket No.	Description of Service	New Rate	Old Rate	Increase (Decrease)
1	5/1/2019	RP19-945-000	Pine Needle Capacity	\$0.09099	\$0.09206	(\$0.00107)
2	4/1/2019	RP19-800-000	Cherokee	\$0.28312	\$0.28169	\$0.00143
3	3/1/2019	RP18-1126-000	FT	\$0.39269	\$0.29128	\$0.10141
4	4/1/2019	RP19-800-000	FT	\$0.39471	\$0.39269	\$0.00202
5	3/1/2019	RP18-1126-000	South Coast	\$0.15597	\$0.16195	(\$0.00598)
6	4/1/2019	RP19-800-000	South Coast	\$0.15736	\$0.15597	\$0.00139
7	3/1/2019	RP18-1126-000	Sunbelt	\$0.19027	\$0.20844	(\$0.01817)
8	4/1/2019	RP19-800-000	Sunbelt	\$0.19166	\$0.19027	\$0.00139

Line: Notes:

- 1) Pine Needle LNG Company, LLC, FERC Gas Tariff, First Revised Volume No. 1
Section 1.1 - Rate Schedule LNG-1
Part II - Statement of Rates and Fuel
Pine Needle LNG Company, LLC
Version 13.0.0
Filed: March 28, 2019
Effective: May 1, 2019
- 2) Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1
Part II - Statement of Rates and Fuel
Section 1.1.5 - FT - Cherokee Expansion Rates
Version 18.0.0
Filed: March 1, 2019
Effective: April 1, 2019
- 3) Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1
Part II - Statement of Rates and Fuel

Toccoa Natural Gas
Docket No. G-41, Sub 54
DEMAND AND STORAGE RATE CHANGES
For the Twelve Month Period Ended June 30, 2019

Schedule 5

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Line No.	Effective Date of Change	FERC Docket No.	Description of Service	New Rate	Old Rate	Increase (Decrease)
			Section 1.1.1 - FT Version 19.1.0 Filed: February 28, 2019 Effective: March 1, 2019			
4)			Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1 Part II - Statement of Rates and Fuel Section 1.1.1 - FT Version 20.0.0 Filed: March 1, 2019 Effective: April 1, 2019			
5)			Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1 Part II - Statement of Rates and Fuel Section 1.1.6 - FT - SouthCoast Expansion Rates Version 17.0.0 Filed: February 28, 2019 Effective: March 1, 2019			
6)			Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1 Part II - Statement of Rates and Fuel Section 1.1.6 - FT - SouthCoast Expansion Rates Version 18.0.0 Filed: March 1, 2019 Effective: April 1, 2019			
7)			Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1 Part II - Statement of Rates and Fuel Section 1.1.2 - FT - Sunbelt Expansion Rates			

Toccoa Natural Gas
Docket No. G-41, Sub 54
DEMAND AND STORAGE RATE CHANGES
For the Twelve Month Period Ended June 30, 2019

Schedule 5

Line No.	Effective Date of Change	FERC Docket No.	Description of Service	New Rate	Old Rate	Increase (Decrease)
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Version 19.1.0

Filed: February 28, 2019

Effective: March 1, 2019

- 8) Transcontinental Gas Pipeline, LLC. FERC Gas Tariff, Fifth Revised Volume No. 1
Part II - Statement of Rates and Fuel
Section 1.1.2 - FT - Sunbelt Expansion Rates
Version 20.0.0
Filed: March 1, 2019
Effective: April 1, 2019

All rates are daily rates in \$/Dth

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Toccoa Natural Gas Company
Docket No. G-41, Sub 54
Demand and Storage Capacity Level Changes
For the Twelve Month Period Ended June 30, 2019

Schedule 6

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Line No.	Description of Service	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
		No Demand or Storage capacity level changes occurred during the review period ending June 30, 2019.											

Notes:

No Demand or Storage capacity level changes occurred during the review period ending June 30, 2019.

Toccoa Natural Gas Company
Docket No: G-41, Sub 54
Demand and Storage Incurred Versus Collected
For the Twelve Month Period Ended June 30, 2019

Schedule 7

***** Does Not Apply to Toccoa Natural Gas *****

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Aug 30 2019

Toccoa Natural Gas Company
Docket No. G-41, Sub 54
Deferred Gas Cost Account Activity
For the Twelve Month Period Ended June 30, 2019
Debit (Credit)

Schedule 8

Line No.	Item	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
1	Beginning Balance	(\$7,261)	(\$4,165)	(\$1,564)	\$747	\$1,026	(\$5,114)	(\$14,031)	(\$24,457)	(\$27,817)	(\$29,000)	(\$27,334)	(\$25,606)	N/M
2	Commodity True-up	(1)	(112)	86	478	1,141	1,734	2,906	1,917	933	217	151	106	9,557
3	Demand True-Up	1,584	819	1,203	(3,093)	(12,724)	(14,557)	(20,752)	(9,872)	(5,978)	(643)	4	857	(63,152)
4	Firm Hedges	-	-	-	-	15	(2,363)	(605)	111	168	-	-	-	(2,674)
5	Increment (decrement)	1,542	1,908	1,348	2,889	5,439	6,316	8,120	4,601	3,834	2,226	1,703	1,908	41,833
6	Adjustment			(324)										
7	Interest @ 5.63% per annum	(28)	(14)	(2)	4	(10)	(47)	(95)	(117)	(140)	(135)	(131)	(116)	(830)
8	Under (Over) Collection	(\$4,165)	(\$1,564)	\$747	\$1,026	(\$5,114)	(\$14,031)	(\$24,457)	(\$27,817)	(\$29,000)	(\$27,334)	(\$25,606)	(\$22,850)	

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Toccoa Natural Gas Company
Docket No. G-41, Sub 54
Deferred Account Activity - All Customers Deferred Account
For the Twelve Month Period Ended June 30, 2019

Schedule 9

***** Does Not Apply to Toccoa Natural Gas *****

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Toccoa Natural Gas Company
Docket No. G-41, Sub 54
Gas Supply (DTs)
For the Twelve Month Period Ended June 30, 2019

Schedule 1

Line No.	Item	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals
	SOURCES OF SUPPLY AT CITY GATE													
1	Authority Gas Supply FT	67,386	74,598	66,054	103,876	141,891	164,059	185,514	136,212	140,415	105,087	89,695	79,133	1,353,920
2	Authority Pine Needle Supply					3,315	1,195	6,571	0	1,442				12,523
3	FT Released Capacity Supply					1,784	2,368	8,100	1,074	2,158				15,484
4	Industrial Sales Pass Through / GA Firm Market													0
	STORAGE/PEAKING SERVICES													
5	LNG Injections													
6	LNG Withdrawal					1,035	70	2,000						3,105
7	save for future use													
8	save for future use													
9	Less: Interruptible Market	48,531	55,745	49,090	50,609	56,072	55,823	57,571	49,990	55,681	52,812	60,244	49,705	641,873
10	Total Company Firm Supply to City Gate	18,855	18,853	16,964	53,267	85,819	108,236	127,943	86,222	84,734	52,275	29,451	29,428	712,047
11	NC Firm Sales Allocation Factor	17.47%	15.46%	16.74%	15.05%	13.23%	13.26%	12.06%	13.58%	12.56%	14.40%	15.43%	17.42%	
12	Supply to the City Gate - NC Portion	3,295	2,914	2,839	8,019	11,351	14,355	15,429	11,710	10,640	7,527	4,543	5,126	97,748

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Municipal Gas Authority of Georgia Winter Service Plan 2018-19

Toccoa

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Aug 30 2019

TABLE OF CONTENTS

In advance of the 2018-19 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

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ACTUAL HISTORY

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CONTACT INFORMATION

PHOTO CONTEST

This year's cover photo was taken by MGAG's own Loulan Myers of Acworth, GA.

Please be on the lookout for any great winter photo opportunities this season. Submit your photos to ryoung@gasauthority.com to be entered in the contest for the 2019-20 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 2018-19 Winter Toccoa

Actual Peak Days (see page 2 for more details)

	<u>HDD</u>	<u>Date</u>	<u>Dth</u>
Historical 5-Year Peak:	38	02/18/15	10,941
Last Winter Peak Day:	41	01/04/18	10,698

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

Customers (see page 3 for more details)

		<u>Customer Count</u>
Active meters as of 12/31/2017	Firm:	6,599
	Interruptible:	8
	Total:	6,607

Forecasted Design Day (Dekatherms) (see page 5 for more details)

	<u>Design Day Forecast</u>
Firm Forecasted Load at 51 HDD	9,654
Interruptible Demand	1,719
Total Design Day Demand	11,373

Firm Services (see page 8 for more details)

	<u>2017-18 Capacity</u>	<u>Planned 2018-19</u>
Pipeline Capacity	6,993	6,993
Pine Needle/LGA/GSS Storage	3,913	3,907
AL Baseload Delivered	-	-
Winter Service Pool *	-	-
Seasonal Capacity	-	-
Propane Air Plant Capacity	-	-
TOTAL FIRM SERVICES	10,906	10,900
 Firm Surplus / (Deficit)		 1,246

* 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

<u>Rank</u>	<u>Date</u>	<u>Day of Week</u>	<u>HDD</u>	<u>Dth</u>
1	02/18/15	Wed	38	10,941
2	01/04/18	Thu	41	10,698
3	01/02/18	Tue	36	10,492
4	01/17/18	Wed	46	10,463
5	01/08/15	Thu	39	10,353
6	01/01/18	Mon	45	10,241
7	01/05/18	Fri	37	10,199
8	01/24/14	Fri	40	10,168
9	01/07/15	Wed	42	10,161
10	02/19/15	Thu	44	10,131
11	01/29/14	Wed	44	9,842
12	02/09/16	Tue	36	9,824
13	02/10/16	Wed	32	9,698
14	01/22/14	Wed	37	9,588
15	01/30/14	Thu	34	9,573
16	01/06/14	Mon	49	9,542
17	01/07/14	Tue	46	9,486
18	01/03/18	Wed	35	9,446
19	01/23/14	Thu	39	9,432
20	01/18/16	Mon	37	9,381

Interruptible Customer Demand

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Interruptible Service

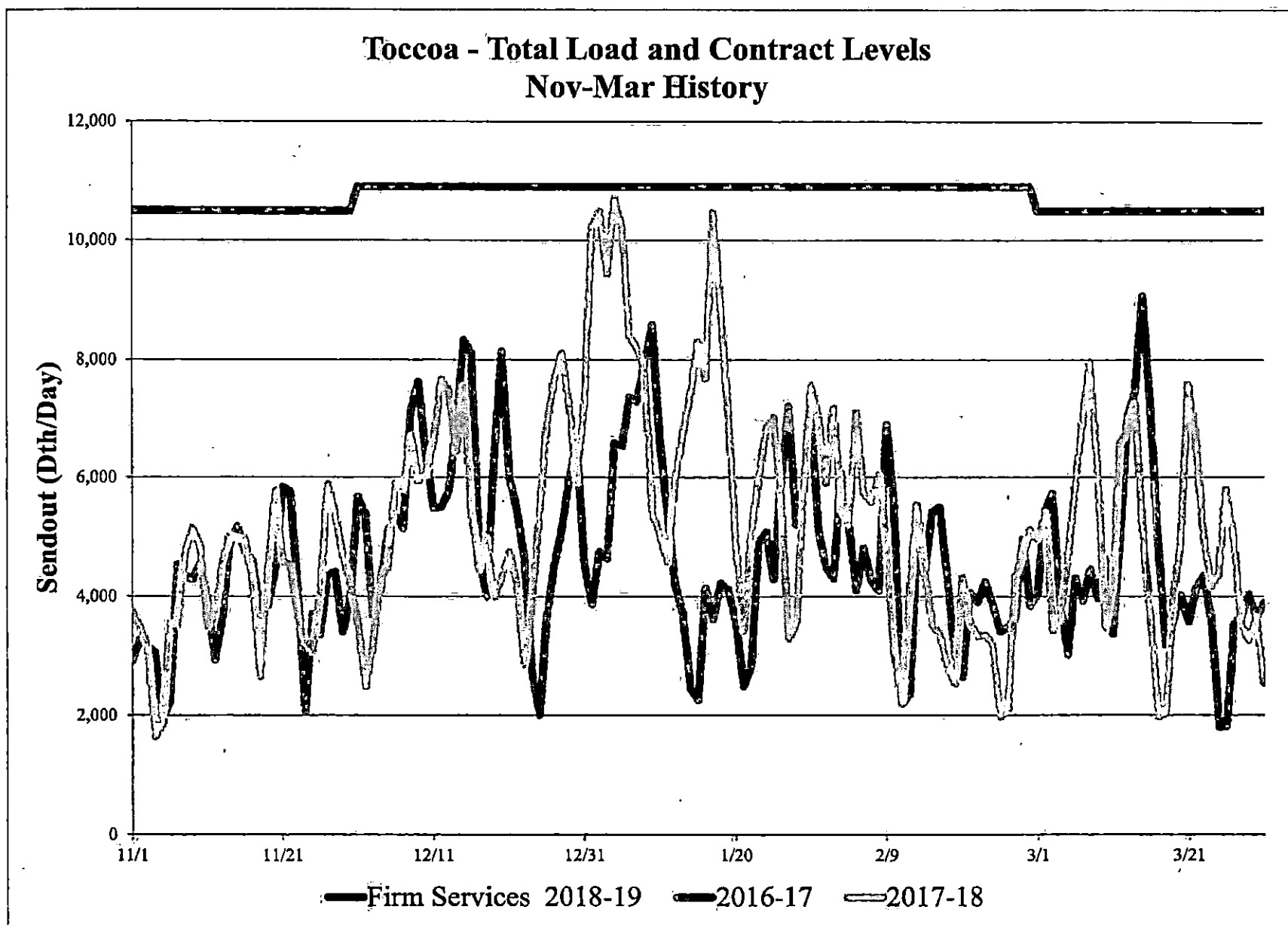
Customers who receive all or a portion of their gas service without a guarantee of constant supply in return for a lower rate are interruptible. An interruptible customer typically has an alternate fuel that can be utilized when natural gas is curtailed. Each Gas Authority member city determines the 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.

Interruptible Customers:

(Quantities in Dekatherms)

<u>Customer Name</u>	<u>2018-19 Design Day Forecast</u>
Columbia Farms	39
Fieldale Farms	1,046
Stephens Co. Hospital	128
Dewtex, Inc.	170
Catepillar, Inc.	128
Angel Medical	44
Shaw Ind.	126
C.W. Matthews - asphalt plant	38
Total	1,719



2018-19 Load Forecast Chart (Dth)

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Dec - Feb Total Firm Services: 10,900

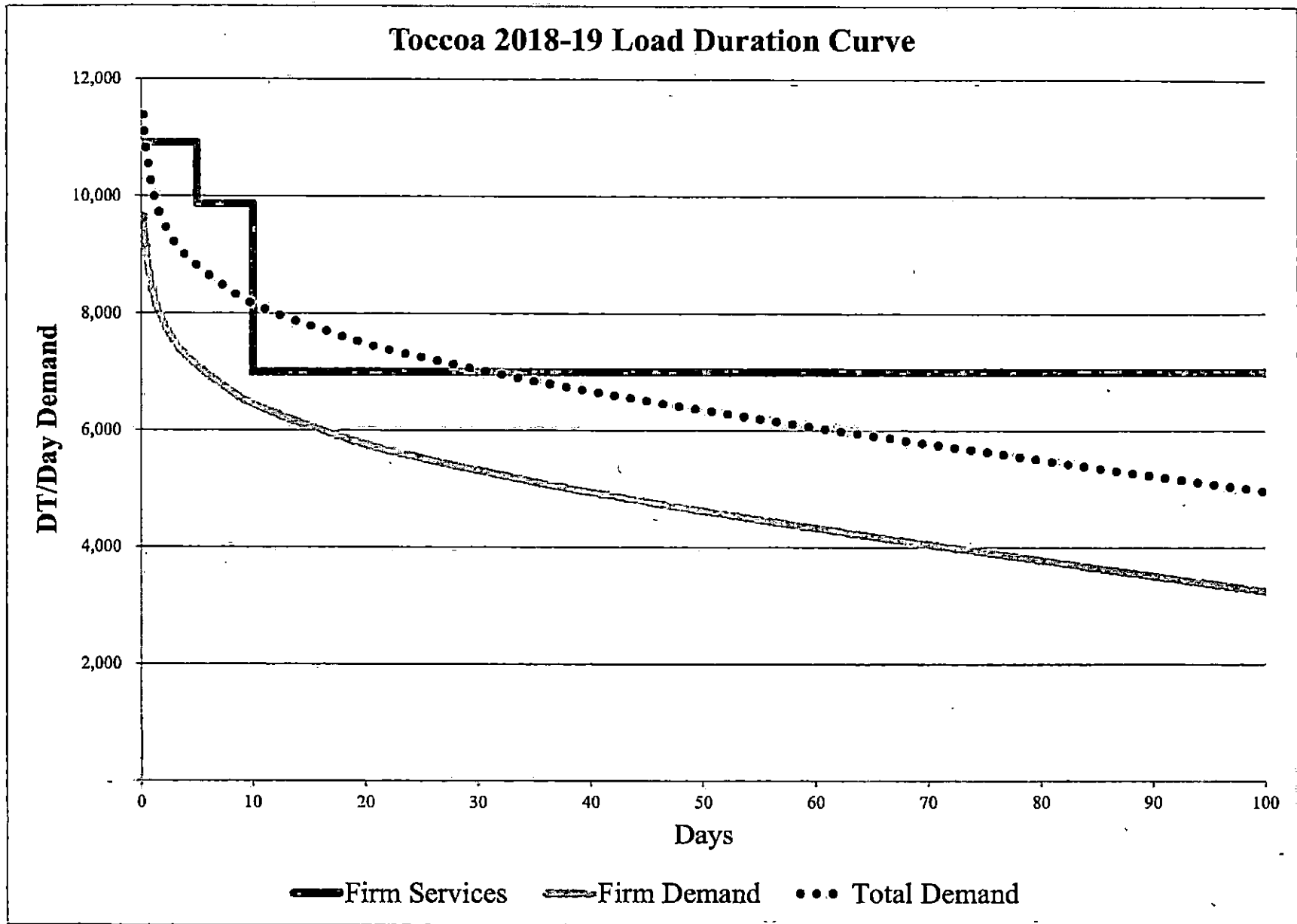
Heating Degree

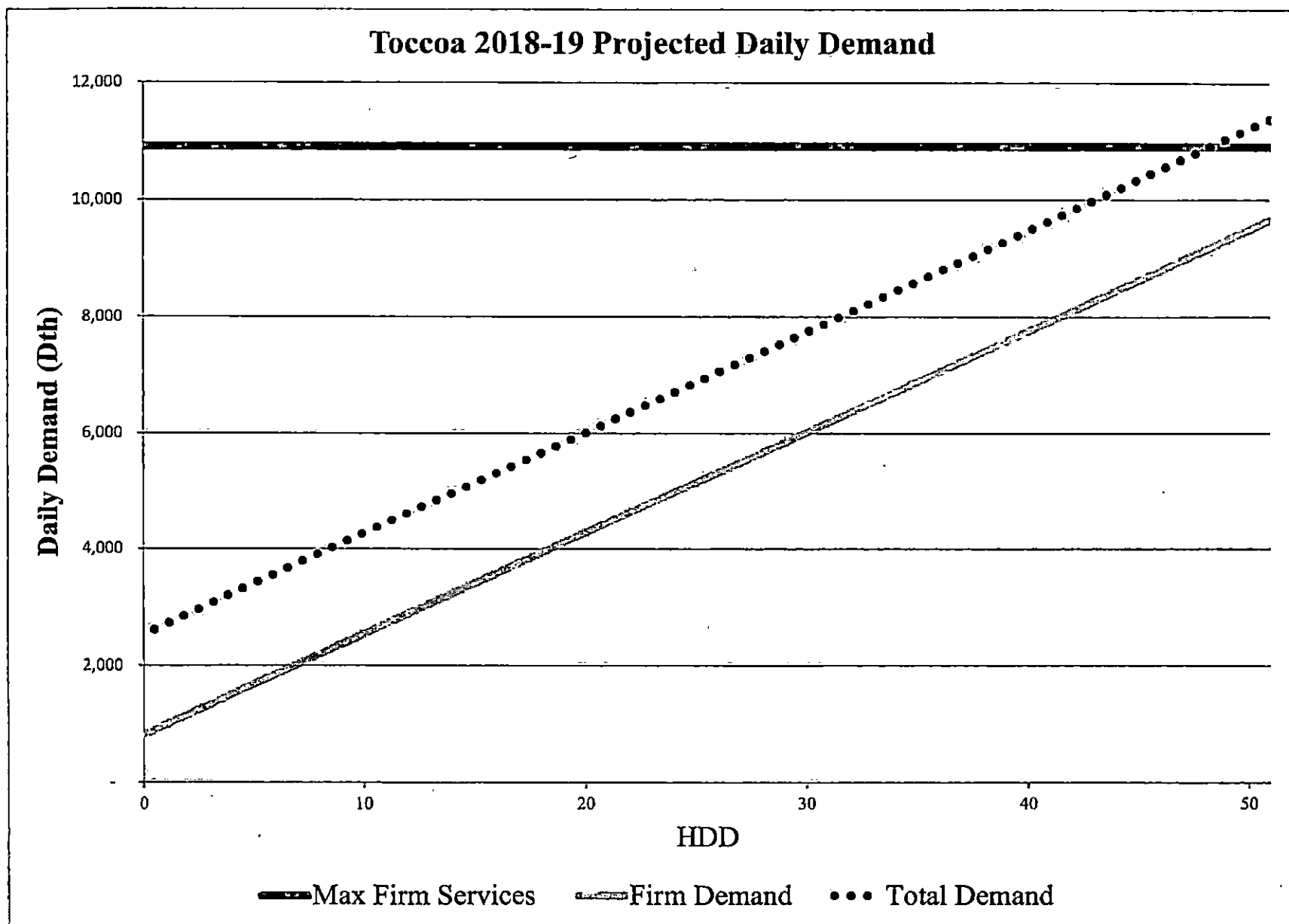
Day	Average Temp.	Firm Load	Total Load
0	65	819	2,538
1	64	992	2,711
2	63	1,165	2,884
3	62	1,339	3,058
4	61	1,512	3,231
5	60	1,685	3,404
6	59	1,858	3,577
7	58	2,032	3,751
8	57	2,205	3,924
9	56	2,378	4,097
10	55	2,551	4,270
11	54	2,725	4,444
12	53	2,898	4,617
13	52	3,071	4,790
14	51	3,244	4,963
15	50	3,417	5,136
16	49	3,591	5,310
17	48	3,764	5,483
18	47	3,937	5,656
19	46	4,110	5,829
20	45	4,284	6,003
21	44	4,457	6,176
22	43	4,630	6,349
23	42	4,803	6,522
24	41	4,977	6,696
25	40	5,150	6,869

Heating Degree

Day	Average Temp.	Firm Load	Total Load
26	39	5,323	7,042
27	38	5,496	7,215
28	37	5,669	7,388
29	36	5,843	7,562
30	35	6,016	7,735
31	34	6,189	7,908
32	33	6,362	8,081
33	32	6,536	8,255
34	31	6,709	8,428
35	30	6,882	8,601
36	29	7,055	8,774
37	28	7,229	8,948
38	27	7,402	9,121
39	26	7,575	9,294
40	25	7,748	9,467
41	24	7,921	9,640
42	23	8,095	9,814
43	22	8,268	9,987
44	21	8,441	10,160
45	20	8,614	10,333
46	19	8,788	10,507
47	18	8,961	10,680
48	17	9,134	10,853
49	16	9,307	11,026
50	15	9,481	11,200
51	14	9,654	11,373

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Toccoa

11/1/2018

Transco Monthly Contract Quantities (Dth)

<u>Contract Type</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
PSFT *	-	-	-	-	-	-	-	-	-	-	-	-
FTG * (One Part FT)	-	-	-	-	-	-	-	-	-	-	-	-
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 *	-	-	-	-	-	-	-	-	-	-	-	-
Sunbelt	518	518	518	518	518	518	518	518	518	518	518	518
BG&E	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-
Momentum	-	-	-	-	-	-	-	-	-	-	-	-
Temp Release of BG&E	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-
ALBaseload Delivered	-	-	-	-	-	-	-	-	-	-	-	-
Winter Service Pool	-	-	-	-	-	-	-	-	-	-	-	-
Pine Needle - 10d	-	2,898	2,898	2,898	2,898	2,898	-	-	-	-	-	-
PN - Transco 5-4 Fuel**	-	(26)	(26)	(26)	(26)	(26)	-	-	-	-	-	-
LNG - 5d	-	1,035	1,035	1,035	1,035	1,035	-	-	-	-	-	-
Total Storage/Peaking	-	3,907	3,907	3,907	3,907	3,907	-	-	-	-	-	-
Seasonal Capacity	-	-	-	-	-	-	-	-	-	-	-	-
Total Capacity (Dth/Day)	6,074	10,498	10,900	10,900	10,900	10,498	6,074	5,039	5,039	4,987	4,983	5,039

* Capacity entitlement varies by month

**Pine Needle reduced for Transco 5-4 fuel of 0.89%

MGAG 5 Year Demand and Capacity Analysis - Toccoa

	2014-15	2015-16	2016-17	Prev Year 2017-18	Year 1 2018-19	Year 2 2019-20	Year 3 2020-21	Year 4 2021-22	Year 5 2022-23
Customer Count	6,494	6,536	6,596	6,607	6,620	6,633	6,646	6,659	6,672
Growth Rate				0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Projected Design Day			HDD	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Firm Design Day Demand			51	9,299	9,649	9,668	9,687	9,706	9,725
NGV Demand				5	5	6	6	6	6
Interruptible Demand				1,719	1,719	1,719	1,719	1,719	1,719
Total Projected Design Day Demand				11,023	11,373	11,393	11,412	11,431	11,450
Firm Services									
FT				6,993	6,993	6,993	6,993	6,993	6,993
GSS				-	-	-	-	-	-
AL Baseload Delivered				-	-	-	-	-	-
Winter Service Pool				-	-	-	-	-	-
Pine Needle				2,878	2,872	2,872	2,872	2,872	2,872
LNG/LGA				1,035	1,035	1,035	1,035	1,035	1,035
Propane Plant				-	-	-	-	-	-
Seasonal Capacity / (Shared with Others)				-	-	-	-	-	-
Total Firm Services				10,906	10,900	10,900	10,900	10,900	10,900
Firm Long/(Short) Dth				1,602	1,246	1,226	1,207	1,188	1,169
				15%	11%	11%	11%	11%	11%

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 greater than the firm services available and more capacity is recommended if available

Operations

	<u>Work Phone</u>	<u>Cell Phone</u>	<u>Email</u>	<u>IM</u>
Transportation				
Karen Copeland	(678) 819-0906	(404) 408-4579	kcopeland@gasauthority.com	kcopeland
Julie Lobdell	(678) 819-0933	(404) 906-2768	jlobdell@gasauthority.com	jlobdell
Renee Defelippi	(678) 819-0930	(404) 936-8033	rdefelippi@gasauthority.com	rdefelippi
Sally Griffin	(678) 819-0919	(404) 295-3427	sgriffin@gasauthority.com	sgriffin6
Wendy Callahan	(678) 819-0921	(404) 667-6225	wcallahan@gasauthority.com	wrcallahan
Doug Irons	(678) 819-0918		dirons@gasauthority.com	
Jeanne Collins	(678) 819-2904		jcollins@gasauthority.com	jcollins
Gas Supply				
Tina Smith	(678) 819-0908	(770) 335-6232	tmsmith@gasauthority.com	tsmith2
Adriene Holland	(678) 819-2906	(770) 815-9609	aholland@gasauthority.com	aholland1
Greg Crooker	(678) 819-2928	(678) 350-3181	gcrooker@gasauthority.com	gcrooker
Capacity Planning & Forecasting				
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Robin Young	(678) 819-0925	(770) 298-3683	ryoung@gasauthority.com	ryoung
Claire Barr	(678) 819-2902		cbarr@gasauthority.com	cbarr
Mike Frey	(678) 819-0910	(404) 372-2161	mfrey@gasauthority.com	mfrey

Member Services

	<u>Work Phone</u>	<u>Cell Phone</u>	<u>Email</u>
Southern Region			
Rodney Dill	(678) 819-0914	(404) 502-7794	rdill@gasauthority.com
Eric Groom	(229) 403-1005	(229) 403-1005	ericg@rose.net
Rusty Hough	(229) 224-4080	(229) 224-4080	rhough@gasauthority.com
Northern Region			
Scott Tolleson	(678) 819-0912	(404) 218-1749	sstolleson@gasauthority.com
Rai Trippe	(678) 819-0938	(770) 883-5671	rtrippe@gasauthority.com
Josh Stull	(404) 313-7375	(404) 313-7375	jstull@gasauthority.com
Will Nuckolls	(678) 223-6461	(678) 223-6461	wnuckolls@gasauthority.com
Member Sendout Data			
Bryan Smith	(678) 819-0916	(678) 641-7390	bsmith@gasauthority.com
Rosalind Conrad	(678) 819-2901	(404) 644-4450	rconrad@gasauthority.com
Chris Strippelhoff	(678) 819-0904	(404) 702-3260	cstrippelhoff@gasauthority.com