

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 752

**Annual Review of Gas Costs Pursuant to G.S. 62-133.4(c)
and Commission Rule R1-17(k)(6)**

**Testimony and Exhibits
of
Gennifer J. Raney**

**On Behalf Of
Piedmont Natural Gas Company, Inc.**



August 1, 2019

1 **Q. Please state your name and your business address.**

2 A. My name is Gennifer Raney. My business address is 4720 Piedmont Row
3 Drive, Charlotte, North Carolina.

4 **Q. What is your position with Piedmont Natural Gas Company**
5 **(“Piedmont” or the “Company”)?**

6 A. I am employed as Director, Pipeline Services.

7 **Q. Please describe your educational and professional background.**

8 A. I graduated from Louisiana State University in Baton Rouge, LA in 1992
9 with a Bachelor of Science degree in Finance, and I graduated from the
10 University of St. Thomas in Houston, TX in 1998 with a Masters of
11 Business Administration, Finance concentration. In 1992, I was
12 employed by Shell Oil Company as a Product Accountant for Gas
13 Exploration and Production. In 1995, I was employed by Vastar
14 Resources, Inc. as a Treasury Analyst. In 1997, I accepted a position
15 in Vastar Gas Marketing, Inc. (which later became Southern Company
16 Energy Marketing, Inc.) as a Transportation and Exchange
17 Representative. In 1999, I was promoted to the position of Associate,
18 Producer Services. In 2000, I was employed by Deloitte & Touche,
19 LLC as a Consulting Manager. In 2002, I was employed by Duke
20 Energy and have held positions in Risk Management, Trading
21 Operations, Power Business Development, Commercial Analytics,
22 Wholesale Power Sales, and Renewable Energy Business Development.
23 Beginning in 2014, I became Natural Gas Business Development Director.
This group became part of the Natural Gas Business Unit after the

1 integration of Duke Energy and Piedmont. In November 2017, I accepted
2 my current position as Director, Pipeline Services.

3 **Q. Please describe the scope of your present responsibilities for Piedmont.**

4 A. My current major responsibilities for Piedmont include managing pipeline
5 capacity planning and relations, annual design day, monthly, and daily
6 forecasting, and management of third party shipper business on Piedmont's
7 system. In addition, I am responsible for oversight of Piedmont's activities
8 at the Federal Energy Regulatory Commission ("FERC") regarding
9 interstate pipelines that the Company utilizes for transportation and storage
10 services.

11 **Q. Have you previously testified before this Commission or any other
12 regulatory authority?**

13 A. Yes. I testified before the Public Service Commission of South Carolina in
14 Docket Numbers 2018-4-G and 2019-4-G. I also testified before this
15 Commission in last year's Annual Review of Gas Cost proceeding (Docket
16 Number G-9, Sub 727).

17 **Q. What is the purpose of your testimony in this proceeding?**

18 A. My testimony is filed in response to the requirements of Commission Rule
19 R1-17(k)(6), which provides for an annual review of Piedmont's gas costs.
20 In my testimony, I discuss the market requirements of Piedmont's North
21 Carolina customers, including the projected growth in those markets, the
22 capacity acquisition policies and practices we employ to serve those
23 markets, the calculation of our design day requirements, and the efforts

1 undertaken by Piedmont at the FERC on behalf of its customers to ensure
2 that interstate transportation and storage services are reasonably priced.

3 **Q. What is the period of review in this docket?**

4 A. The review period is June 1, 2018 through May 31, 2019.

5 **Q. Please give a general description of Piedmont and its market in North**
6 **Carolina.**

7 A. Piedmont is a local distribution company principally engaged in the
8 purchase, distribution and sale of natural gas to more than 1 million
9 customers in North Carolina, South Carolina, and the metropolitan area of
10 Nashville, Tennessee. Piedmont currently serves approximately 750,000
11 customers in the State of North Carolina. During the twelve-month period
12 ending May 31, 2019, Piedmont delivered approximately 450 million
13 dekatherms (“dts”) of natural gas to its North Carolina customers.

14 Piedmont provides service to two distinct markets – the firm
15 market (principally those that have no alternate source of fuel) and the
16 interruptible market (principally those that either have access to an alternate
17 fuel or who are prepared to cease operating in the event of interruption until
18 service can be resumed). Although Piedmont competes with electricity for
19 the attachment of firm customers, once attached these customers generally
20 have no readily available alternative source of energy and depend on natural
21 gas for their basic space heating or utility needs. During the twelve month
22 period ending May 31, 2019, approximately 93%, of Piedmont’s North
23 Carolina deliveries were to the firm market.

1 In the interruptible market, Piedmont competes on a month-to-
2 month and day-to-day basis with alternative sources of energy, primarily
3 fuel oil or propane and, to a lesser extent, coal or wood. These larger
4 commercial and industrial customers may buy alternate fuels when they are
5 less expensive than gas or when their service is interrupted by Piedmont.
6 During the twelve-month period ending May 31, 2019, approximately 7% of
7 Piedmont's North Carolina deliveries were to the interruptible market.

8 **Q. How does Piedmont calculate its customer growth?**

9 A. Piedmont reviews historical customer additions, holds discussions with
10 various business leaders/trade allies and field sales employees, and
11 considers forecasts of local, regional and national business drivers (e.g.,
12 economic conditions, demographics, etc.) to derive its customer growth
13 projections.

14 **Q. Are there any changes in the Company's customer mix or customer
15 market profiles that it forecasts for the next ten years?**

16 A. For the next ten years, the Company expects the economy to continue to
17 grow resulting in increasing residential and commercial demand as detailed
18 in the "Winter 2019 - 2020 Design Day Demand & Supply Schedule",
19 **Exhibit_ (GJR-5C)**. The Company also expects industrial activity to grow
20 modestly.

21 **Q. How will these changes impact the Company's gas supply,
22 transportation, and storage requirements?**

1 A. The residential and commercial growth changes will result in greater firm
2 temperature-sensitive requirements that will require firm sales service from
3 the Company.

4 **Q. Please identify the rate schedules and special contracts that the**
5 **Company uses to determine its design day demand requirements for**
6 **planning purposes and explain the rationale and basis for each rate**
7 **schedule or special contract included in the determination of design day**
8 **demand requirements.**

9 A. The Company uses the following rate schedules, each of which is for firm
10 sales service, to determine its design day demand requirements:

- 11 • 101 – Residential Service;
- 12 • 102 – Small General Service;
- 13 • 152 – Medium General Service;
- 14 • 143 – Experimental Motor Vehicle Fuel Service;
- 15 • 103 – Large General Sales Service;
- 16 • 12 – Service to Military Installations in Onslow County (Camp
17 Lejeune).

18 Piedmont also includes any special contracts for which Piedmont is
19 providing firm sales service in the determination of its design day
20 requirements.

21 **Q. How did the Company calculate its design day requirements for Winter**
22 **2018-2019?**

1 A. Piedmont's design day calculations for Winter 2018-2019 were performed
2 in the same manner used for the Winter 2017-2018 design day calculations,
3 as described in last year's Annual Review. Specifically, all usage data was
4 refreshed utilizing the actual firm customer sendout data from November
5 2011 through March 2018, which included the most current winter weather
6 experience for all firm customer classes. Next, a linear regression analysis
7 was conducted to determine the base load and the usage per heating degree
8 day based on all of the newly refreshed data. Finally, the historical weather
9 data, which included the winter of 2017-2018, was reviewed to determine
10 that the design day temperature should be slightly adjusted from 8.67 to 8.68
11 degrees Fahrenheit. The Company also constructed a load duration curve to
12 forecast the Company's firm sales market requirements for design winter
13 weather conditions. The supply requirements were plotted in descending
14 order of magnitude, with existing pipeline capacity and storage resources
15 overlaid to expose any supply shortfalls. The load duration curves for the
16 2018 – 2019 **forecasted** design winter, as well as the **actual** 2018 – 2019
17 winter season are shown in **Exhibits (GJR-1A) and (GJR-1B)**. The load
18 duration curve for the 2019 – 2020 forecasted design winter season is shown
19 in **Exhibit_ (GJR-2)**.

20 **Q. Please provide a walkthrough of the Winter 2018-2019 design day**
21 **demand calculation.**

1 A. Referencing the “Winter 2018 - 2019 Design Day Demand and Supply
2 Schedule” **Exhibit_ (GJR-4C)**: the “System Design Day Firm Sendout”
3 (line 1) is calculated as follows:

4 1) The number of heating degree days (“HDD”) in the design day is
5 multiplied by the usage per HDD as calculated in the regression
6 analysis. This result is then added to the base load number derived
7 from the regression.¹

8 2) Any mid-year special firm sales pick up are added (line 2) and any mid-
9 year movements from firm sales to firm transportation are subtracted
10 (line 3), which results in a subtotal for firm sendout that includes the
11 net mid-year changes (line 4).

12 3) Any special contract firm sales commitments (line 5) are added
13 resulting in the “Total Firm Design Day Demand” (line 6).

14 4) A five (5) percent reserve margin is then calculated (line 7) and is
15 added to the “Total Firm Design Day Demand” (line 6) resulting in
16 the “Subtotal Demand” (line 8).

17 5) The “Firm Transportation without Standby” (line 10) is represented as
18 the total dekatherms consumed by all industrial firm transportation
19 customers on the highest winter day usage for that customer class for
20 the prior winter. This number is then subtracted from the “Subtotal
21 Demand” resulting in the “Total Firm Sales Demand” (line 11) for
22 that year.

¹ Formula: (Design Day HDDs x Usage per HDD)+Base Load = System Design Day Firm Sendout

1 6) Each subsequent yearly Design Day forecast is derived by multiplying
2 the previous year's projected firm usage by each succeeding year's
3 forecasted growth percentage.

4 7) The Company then constructs the load duration curve previously
5 described in this testimony.

6 **Q. Has the Company made any methodology changes to its calculation of**
7 **Design Day requirements for the future?**

8 A. No.

9 **Q. Has Piedmont made any changes to the design day temperature?**

10 A. The Company continues to calculate the design day temperature using the
11 daily weighted average² forty-year low temperature, as explained in last
12 year's Annual Review. This year's computation of the forty-year average
13 yielded a design day temperature of 8.68 degrees Fahrenheit. See **Exhibit_**
14 **(GJR-7).**

15 **Q. Did the Company consider efficiency gains and customer conservation**
16 **in its design day methodology?**

17 A. Because the design day methodology is based on refreshed data which
18 represents the customer consumption over a recent period of time and
19 eliminates old customer consumption data, the customer efficiency gains
20 and conservation efforts are taken into consideration.

21 **Q. Does Piedmont believe that conservation measures utilized by**
22 **customers are applicable when formulating design day calculations?**

² A current weighted average of firm sales customers relative to the nine weather stations in the Carolinas.

1 A. No. Piedmont and the natural gas industry have not seen evidence that
2 conservation/reduced usage occurs during design day conditions. The
3 winter cold snap which occurred from December 30, 2017 through January
4 8, 2018 gave Piedmont an opportunity to refresh data and analyze our
5 customer's behavior during extremely cold weather. We continued to
6 observe that customers tend to conserve for the first few days of colder
7 temperatures before turning up the thermostat. However, once adjusted to a
8 warmer setting, customers appear to become less focused on conservation
9 and more focused on comfort and leave the thermostat at the warmer level
10 for a few days even as temperatures start to moderate. This pattern is
11 illustrated in **Exhibit_ (GJR-3)**. Given what we experienced during this
12 recent cold weather event as a customer response to colder temperatures in
13 this pattern, the Company is confident this conservative approach to design
14 day forecasting is the most prudent approach. Our focus has been, and
15 continues to be, to reliably serve our firm customers on a design day.

16 **Q. What process does Piedmont undertake to acquire firm capacity to**
17 **meet its growing sales market requirements?**

18 A. Piedmont secures incremental capacity to meet the growth requirements of
19 its firm sales customers consistent with its "best cost" policy, as described
20 by Ms. Stabley in her testimony. To implement this policy, Piedmont
21 attempts to contract for timely and cost-effective capacity that is tailored to
22 the demand characteristics of its market. Piedmont evaluates interstate
23 pipeline capacity and storage offerings expected to be available at the time

1 that it is determined that additional future firm delivery service is required
2 or existing firm delivery service contracts are expiring. The Company
3 attempts to match the days of service of new incremental transportation
4 capacity to the duration of its incremental demand on the most economical
5 basis possible. Piedmont attempts to acquire peaking services to meet
6 projected peak day demand, storage services to meet projected seasonal
7 demand, and year-round firm transportation services to meet base load
8 demand and provide capacity to be available for storage inventory
9 replenishment. However, service choices are limited to those offered during
10 the period being evaluated.

11 **Q. What were the design day demand requirements used by the Company**
12 **for planning purposes for the review period, the baseload, the amount**
13 **of heating degree days, dekatherms per heating degree day, customer**
14 **growth rates and supporting calculations used to determine the design**
15 **day requirement amounts?**

16 A. Please see Exhibits (GJR-4A), (GJR-4B) and (GJR-4C).

17 **Q. What are the design day demand requirements used by the Company**
18 **for planning purposes for the for the next five winter seasons, the**
19 **baseload, the amount of heating degree days, dekatherms per heating**
20 **degree day, customer growth rates and supporting calculations used to**
21 **determine the design day requirement amounts?**

22 A. Please see Exhibits (GJR-5A), (GJR-5B) and (GJR-5C).

1 **Q. Please describe how the Company plans to supply its estimated future**
2 **growth requirements during the next five-year period beginning with**
3 **the 2019-2020 winter season.**

4 A. Based on current forecasted projections, Piedmont believes that it has
5 sufficient supply and capacity rights to meet its near-term customer needs
6 until the Atlantic Coast Pipeline (“ACP”) comes on-line in 2021. The most
7 recent projects of Transco’s Leidy Southeast expansion for 100,000 dts per
8 day of year-round capacity and Transco’s Virginia Southside expansion for
9 20,000 dts per day of year-round capacity went into service in late 2015 and
10 2016. In 2014, the Company entered into a precedent agreement with ACP
11 to add 160,000 dts of additional capacity utilizing its “best cost” purchasing
12 philosophy. The ACP capacity is scheduled to go in service in late 2021.
13 Current growth projections begin to show a capacity deficit in the 2020-
14 2021 timeframe. This deficit will increase for future periods if the ACP
15 capacity does not go into service as can be seen on **Exhibit_ (GJR-5C)**.
16 Last year, Piedmont announced that it intends to construct a liquefied
17 natural gas facility in Robeson County, N.C. (“Robeson LNG”). This
18 facility will provide peaking supply of natural gas during peak usage days.
19 The facility is anticipated to be completed in the summer of 2021, and
20 therefore forecasted to provide peaking support starting winter 2021-2022.
21 The capacity portfolio will be restructured to include Robeson LNG using
22 the “best cost” gas purchasing policy while taking into account the customer
23 load profile. Piedmont will continue to review short term interstate pipeline

1 and storage capacity offerings and bridging services to cover any potential
2 capacity shortfall.

3 **Q. Has the Company made any changes to capacity rights during the**
4 **review period?**

5 A. The Company did not make any changes to its capacity rights during the
6 review period.

7 **Q. Does the Company plan for a reserve margin to accommodate statistical**
8 **anomalies, unanticipated supply or capacity interruptions, force**
9 **majeure, emergency gas usage or colder-than-design weather?**

10 A. Yes, the Company computes a five percent reserve margin and arranges for
11 supply and capacity to provide delivery of the reserve margin for events
12 such as those listed above. This reserve margin is reflected in **Exhibits**
13 **(GJR-4C) and (GJR-5C).**

14 **Q. Is it possible to maintain capacity rights that exactly match Piedmont's**
15 **calculated design day demand plus reserve margin at all times?**

16 A. No. Capacity additions are acquired in "blocks" of additional transportation,
17 storage, or LNG capacity, as current and future needs are identified, to
18 ensure Piedmont's ability to serve its customers based on the options
19 available at that time. As a practical matter, this means that at any given
20 moment in time, Piedmont's actual capacity assets will vary somewhat from
21 its forecasted demand capacity requirements. This aspect of capacity
22 planning is unavoidable but Piedmont attempts to mitigate the impact of any

1 mismatch through bridging services, capacity release and off-system sales
2 activities.

3 **Q. Please describe the Company's interest and position on any issues**
4 **before the FERC that may have a significant impact on the Company's**
5 **operations and a description of the status of each proceeding described.**

6 A. The Company routinely intervenes and participates in interstate natural gas
7 pipeline proceedings before the FERC. A current summary of such proceedings
8 in which Piedmont is a party is attached hereto as **Exhibit_ (GJR-6)**.

9 **Q. Does this conclude your testimony?**

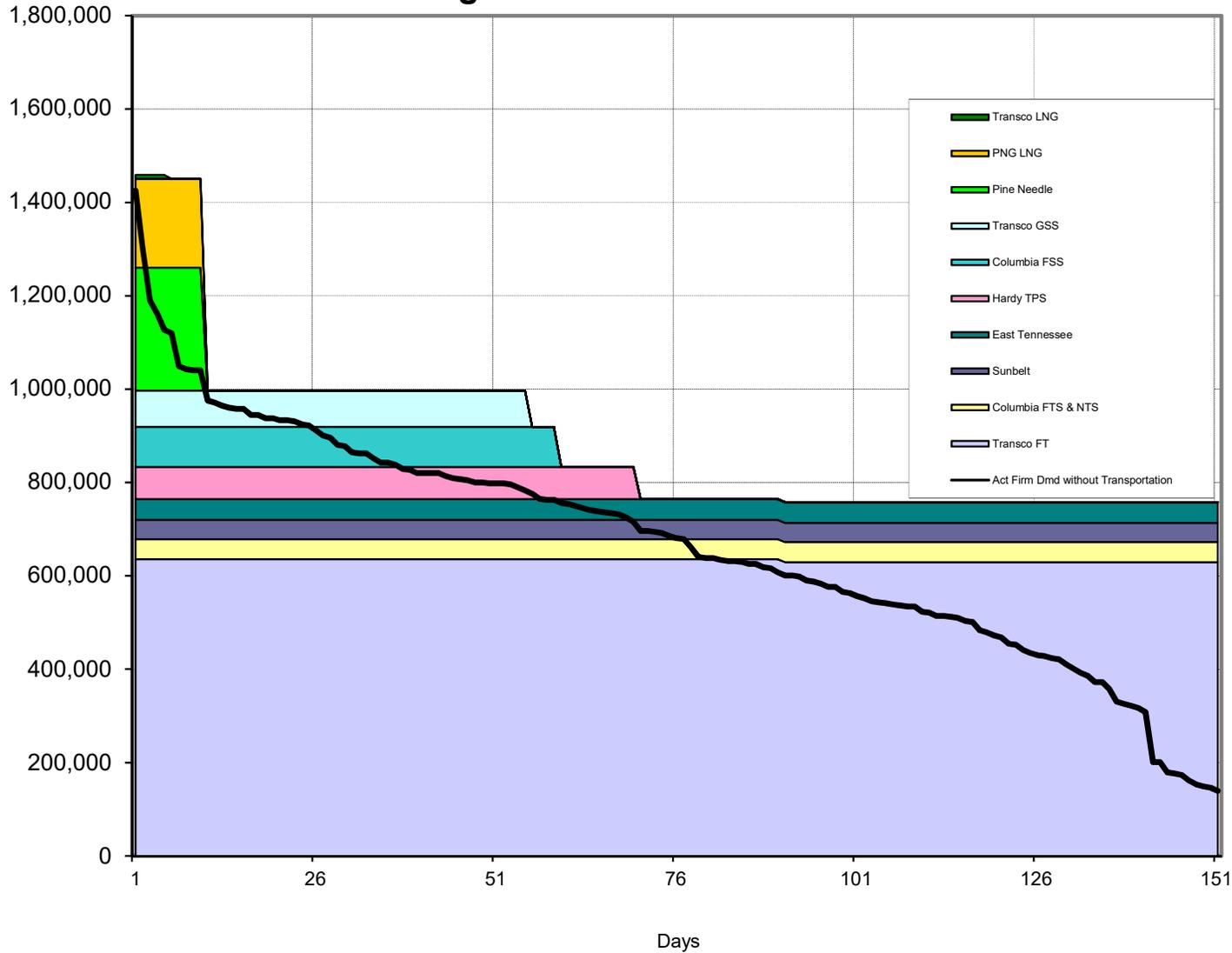
10 A. Yes it does.

Index - GJR Exhibits

<u>Exhibit Number</u>	<u>Description</u>
GJR-1A	Winter 2018 - 2019 Forecast Load Duration Curve
GJR-1B	Winter 2018 - 2019 Actual Load Duration Curve
GJR-2	Winter 2019-2020 Forecast Load Duration Curve
GJR-3	2017-2018 Weather Event
GJR-4A	Winter 2018 - 2019 Design Day Start Point
GJR-4B	Customer Growth - Actual and Projection for 2018-2019 planning
GJR-4C	Winter 2018 - 2019 Design Day Demand & Supply Schedule
GJR-5A	Winter 2019-2020 Design Day Start Point
GJR-5B	Customer Growth - Actual and Projection for 2019-2020 planning
GJR-5C	Winter 2019-2020 Design Day Demand & Supply Schedule
GJR-6	FERC Filings June 2018 - May 2019
GJR-7	Design Day Temperature

Winter 2018 - 2019 Load Duration Curve Design Winter - Total Carolinas

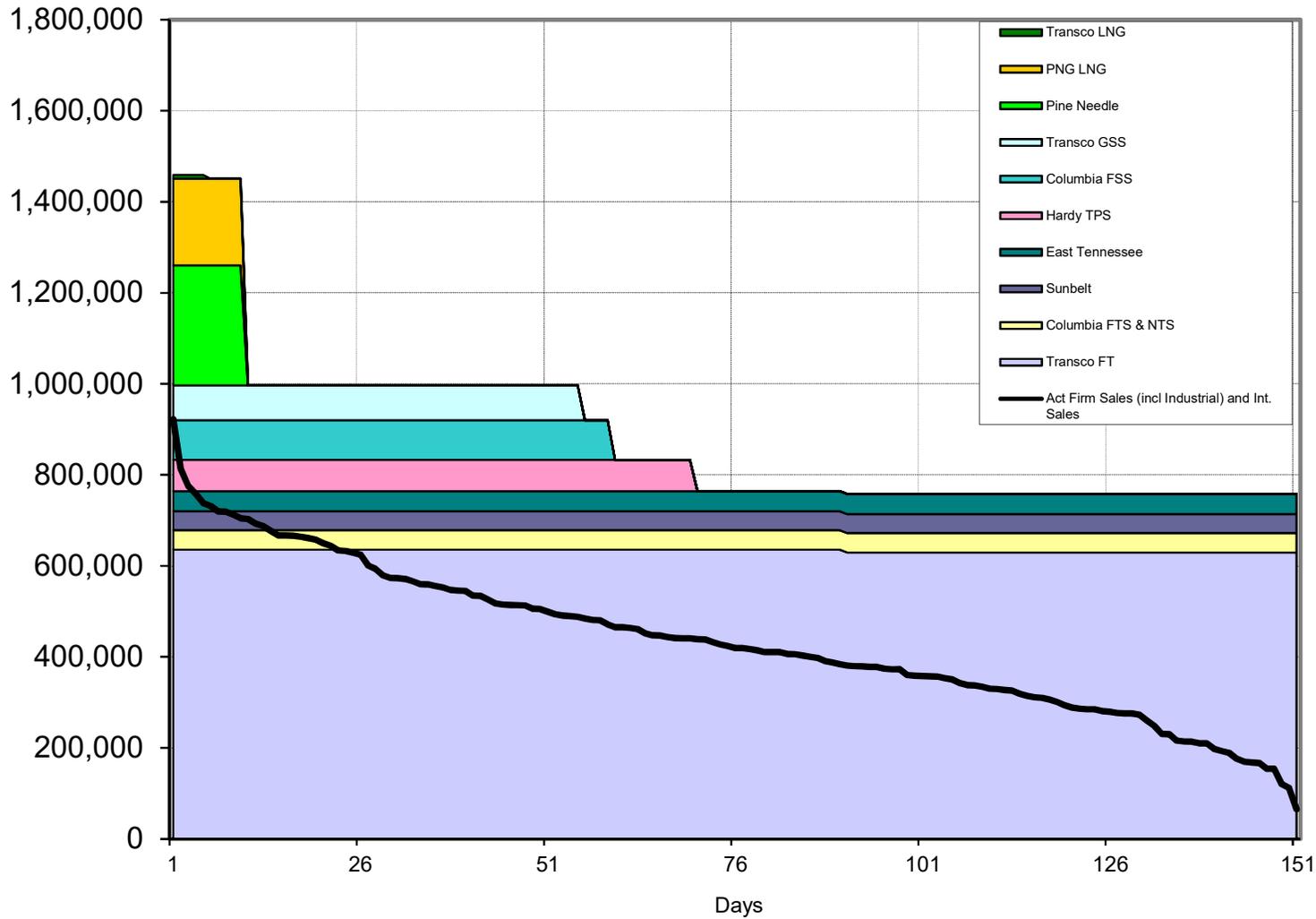
CONFIDENTIAL



ACTUAL 2018-2019

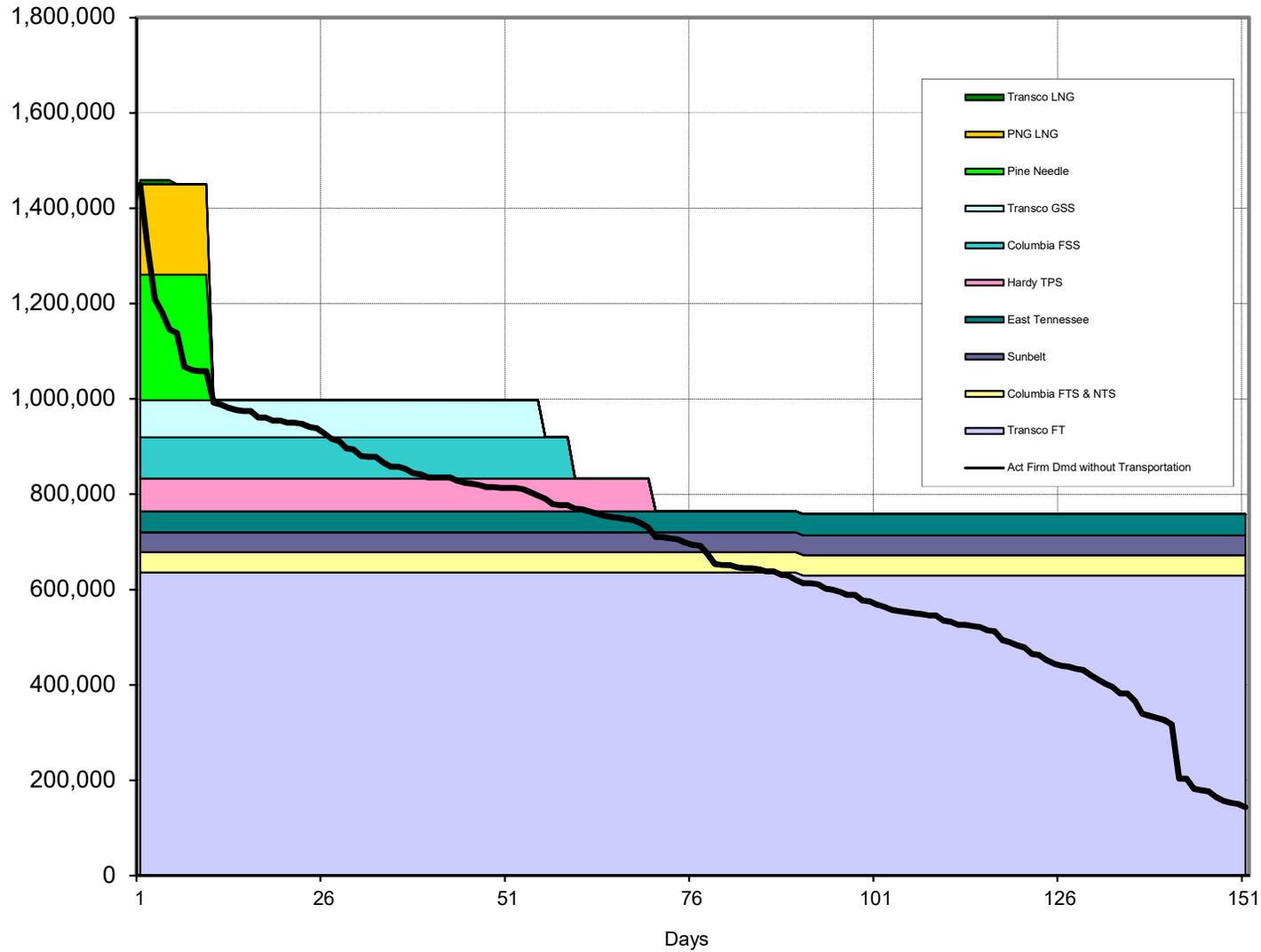
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Winter 2018 - 2019 Load Duration Curve Actual Winter - Total Carolinas



Winter 2019 - 2020 Load Duration Curve Design Winter - Total Carolinas

CONFIDENTIAL



2017-2018 Weather Event

Carolinas: December 2017 - January 2018 Cold Snap

Date	Firm Sales & Firm Transportation Less Base Load	HDDs	Usage per HDD Less Base Load
12/30/2017	530,098	28.2	18,798
12/31/2017	836,623	41.3	20,257
1/1/2018	975,969	46.2	21,125
1/2/2018	1,011,608	42.0	24,086
1/3/2018	972,138	39.3	24,736
1/4/2018	1,037,719	44.5	23,320
1/5/2018	1,011,070	42.8	23,623
1/6/2018	1,015,633	44.8	22,670
1/7/2018	964,821	40.5	23,823
1/8/2018	714,357	27.8	25,696

All usage is in dekatherms.

Base load equals 164,485 dekatherms.

Winter 2018 - 2019 Design Day Start Point

	<u>Total Carolinas</u>
Baseload - Firm Sales & Firm Transport ¹	203,028
Design Day Temperature	8.68
Design Day DDD	56.3
Difference between Actual and Design Day (DDD)=	n/a
Estimated increase in FirmSls & Trans Usage per degree day	22,175
 Total Firm Sls & Tran usage for total 56.3 HDDs	1,451,927
 TOTAL NEW FIRM SALES PICKED UP MID YEAR	1,909
TOTAL FIRM SALES MOVED TO TRANSPORT MID YEAR	(786)
TOTAL NET NUMBER - FIRM SALES PICKED UP	1,123
 Firm Sales Contract Commitment - Customer A	333
Firm Sales Contract Commitment - Customer B	3,900
Firm Sales Contract Commitment - Customer C	3,000
Total Firm Sales Contract Commitment	7,233
 Prior Winter Firm Transport (Total FT DTs consumed on highest winter day)	132,242
Date of occurrence (NC)	January 30, 2018
Date of occurrence (SC)	January 15, 2018

¹ Baseload - Firm Sales & Firm Transport increased for Winter 2018-2019 because beginning with Winter 2018-2019, winter only data will be used. Winter data is the relevant data for winter design day forecasting.

Customer Growth for Winter Design Day 2018-2019

Actual Customer Count by Year as of March 31 Through 2018
Projected Customer Count by Year as of March 31 Through 2021

TOTAL RESIDENTIAL & COMMERCIAL CUSTOMER COUNT										
	ACTUAL							PROJECTION		
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Total NC & SC	818,298	826,993	839,328	852,754	865,950	876,464	891,191	905,450	919,937	934,748
	0.70%	1.06%	1.49%	1.60%	1.55%	1.21%	1.68%	1.60%	1.60%	1.61%

FORECAST 2018-2019

Carolinas Design Day Demand & Supply Schedule - Winter 2018 - 2019

Design Day Temperature of 8.68 Degrees (56.32 HDDs)

CONFIDENTIAL

(All Values in Dt/d)		Carolinas Demand Net Growth Rate		1.6%	1.6%	1.6%	1.6%	1.6%	
DEMAND		Winter Period:		2018 -2019	2019 - 20	2020 - 21	2021 - 22	2022 - 23	
1	System Design Day Firm Sendout			1,475,157	1,499,901	1,523,899	1,548,434	1,573,364	
2	Mid Year Firm Sales Pick Up			1,909					
3	Mid Year Firm Sales Deduct (move to Firm Transport)			(786)					
4	Subtotal Sendout plus Mid Year Pickup			1,476,280	1,499,901	1,523,899	1,548,434	1,573,364	
5	Special Contract Firm Sales Commitment			7,233	7,233	7,233	7,233	7,233	
6	Total Firm Design Day Demand			1,483,513	1,507,134	1,531,132	1,555,667	1,580,597	
7	Reserve Margin on Design Day Demand (5%)			74,176	75,357	76,557	77,783	79,030	
8	Subtotal Demand			1,557,689	1,582,491	1,607,689	1,633,450	1,659,627	
9	Less:								
10	Firm Transportation Without Standby			(132,242)	(100,000)	(100,000)	(100,000)	(100,000)	
11	Total Firm Sales Demand			1,425,447	1,482,491	1,507,689	1,533,450	1,559,627	
12	SUPPLY CAPACITY								
13	Firm Transportation								
		<u>Days</u>							
14	Transco	FT	365	301,016	301,016	301,016	301,016	301,016	
15	Transco	FT	365	6,440	6,440	6,440	6,440	6,440	
16	Transco	FT SE '94/95/96	365	129,485	129,485	129,485	129,485	129,485	
17	Transco	Sunbelt	365	41,400	41,400	41,400	41,400	41,400	
18	Transco	VA Southside	365	20,000	20,000	20,000	20,000	20,000	
19	Transco	Leidy	365	100,000	100,000	100,000	100,000	100,000	
20	Columbia Gas	FTS	365	32,801	32,801	32,801	32,801	32,801	
21	Columbia Gas	NTS	365	10,000	10,000	10,000	10,000	10,000	
22	East TN (MGT Upstream)	FT	365	19,578	19,578	19,578	19,578	19,578	
23	Atlantic Coast Pipeline *	FT	365	<u>160,000</u>	<u>160,000</u>	<u>160,000</u>	<u>160,000</u>	<u>160,000</u>	
24	Total Year Round FT			660,720	820,720	820,720	820,720	820,720	
25									
26	Transco	FT Southern Expansion	151	72,502	72,502	72,502	72,502	72,502	
27	East TN (TETCO Upstream)	FT	151 ¹	24,798	24,798	24,798	24,798	24,798	
28	Transco	FT	90	<u>6,314</u>	<u>6,314</u>	<u>6,314</u>	<u>6,314</u>	<u>6,314</u>	
29	Total Winter Only FT			103,614	103,614	103,614	103,614	103,614	
30									
31	Firm Transportation Subtotal			764,334	924,334	924,334	924,334	924,334	
32									
33	Hardy Storage	HSS	70	68,835	68,835	68,835	68,835	68,835	
34	Dominion	GSS	60 ²	0	0	0	0	0	
35	Columbia Gas	FSS/SST	59	86,368	86,368	86,368	86,368	86,368	
36	Transco	GSS	55	<u>77,475</u>	<u>77,475</u>	<u>77,475</u>	<u>77,475</u>	<u>77,475</u>	
37									
38	Total Seasonal Storage			232,678	232,678	232,678	232,678	232,678	
39									
40	Peaking Capacity								
41	Piedmont	LNG - Huntersville	10	100,000	100,000	100,000	100,000	100,000	
42	Piedmont	LNG - Bentonville	10	90,000	90,000	90,000	90,000	90,000	
43	Transco	Pine Needle	10	263,400	263,400	263,400	263,400	263,400	
44	Transco	LNG (formerly LG-A)	5	<u>8,643</u>	<u>8,643</u>	<u>8,643</u>	<u>8,643</u>	<u>8,643</u>	
45	Peaking Supplies Total			462,043	462,043	462,043	462,043	462,043	
46									
47	Total Capacity			1,459,055	1,619,055	1,619,055	1,619,055	1,619,055	
48	Surplus(Deficit)			33,608	136,564	111,366	85,605	59,428	

* Atlantic Coast Pipeline scheduled to come on line in fourth quarter 2019

¹ East TN capacity is 365 days, however the upstream TETCO capacity delivering to East TN is 151 days

² Beginning in FY2015, Dominion capacity removed as available capacity on design day due to non-firm backhaul from Transco Zone 6.

Piedmont Natural Gas
Docket No. G-9, Sub 752

Exhibit_(GJR-5A)

Winter 2019 - 2020 Design Day Start Point

Design Day Forecast 2019 - 2020

Total Carolinas

Baseload - Firm Sales & Firm Transport	211,454
Design Day Temperature	8.68
Design Day DDD	56.3
Difference between Actual and Design Day (DDD)	n/a
Estimated increase in FirmSls & Trans Usage per degree day	22,439
 Total Firm Sls & Tran usage for total 56.4 HDDs	1,475,204
 TOTAL NEW FIRM SALES PICKED UP MID YEAR & ANNUAL ELECTIONS	2,371
TOTAL FIRM SALES MOVED TO TRANSPORT ANNUAL ELECTIONS	(1,775)
TOTAL NET NUMBER - FIRM SALES PICKED UP	596
 Firm Sales Contract Commitment - Customer A	333
Firm Sales Contract Commitment - Customer B	3,900
Firm Sales Contract Commitment - Customer C	3,000
Total Firm Sales Contract Commitment	7,233
 Prior Winter Firm Transport (Total FT DTs consumed on highest winter day)	134,427
Date of occurrence - January 30, 2019	124,591 NC
Date of occurrence - January 21, 2019	9,835 SC

Customer Growth for Winter Design Day 2019-2020

Actual Customer Count by Year as of March 31 Through 2019
Projected Customer Count by Year as of March 31 Through 2022

TOTAL RESIDENTIAL & COMMERCIAL CUSTOMER COUNT

	ACTUAL							PROJECTION		
	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Total NC & SC	826,993	839,328	852,754	865,950	876,464	891,191	901,513	916,839	932,425	948,276
	1.06%	1.49%	1.60%	1.55%	1.21%	1.68%	1.16%	1.67%	1.67%	1.67%

Carolinas Design Day Demand & Supply Schedule - Winter 2019 - 2020

Design Day Temperature of 8.68 Degrees (56.32 HDDs)

CONFIDENTIAL

(All Values in Dt/d)				Carolinas Demand Net Growth Rate				
				1.67%	1.67%	1.67%	1.67%	1.67%
DEMAND				2019 - 20	2020 - 21	2021 - 22	2022 - 23	2023 - 24
<i>Winter Period:</i>								
1	System Design Day Firm Sendout			1,499,840	1,525,494	1,550,969	1,576,871	1,603,204
2	Mid Year Firm Sales Pick Up			2,371				
3	Mid Year Firm Sales Deduct (move to Firm Transport)			(1,775)				
4	Subtotal Sendout plus Mid Year Pickup			1,500,436	1,525,494	1,550,969	1,576,871	1,603,204
5	Special Contract Firm Sales Commitment			7,233	7,233	7,233	7,233	7,233
6	Total Firm Design Day Demand			1,507,669	1,532,727	1,558,202	1,584,104	1,610,437
7	Reserve Margin on Design Day Demand (5%)			75,383	76,636	77,910	79,205	80,522
8	Subtotal Demand			1,583,053	1,609,363	1,636,112	1,663,309	1,690,959
9	Less:							
10	Firm Transportation Without Standby			(134,427)	(125,000)	(125,000)	(125,000)	(125,000)
11	Total Firm Sales Demand			1,448,626	1,484,363	1,511,112	1,538,309	1,565,959
12	SUPPLY CAPACITY							
13	Firm Transportation							
14	Transco	FT	365	301,016	301,016	301,016	301,016	301,016
15	Transco	FT	365	6,440	6,440	6,440	6,440	6,440
16	Transco	FT SE '94/95/96	365	129,485	129,485	129,485	129,485	129,485
17	Transco	Sunbelt	365	41,400	41,400	41,400	41,400	41,400
18	Transco	VA Southside	365	20,000	20,000	20,000	20,000	20,000
19	Transco	Leidy	365	100,000	100,000	100,000	100,000	100,000
20	Columbia Gas	FTS	365	32,801	32,801	32,801	32,801	32,801
21	Columbia Gas	FTS	365	10,000	10,000	10,000	10,000	10,000
22	East TN (MGT Upstream)	NTS	365	19,578	19,578	19,578	19,578	19,578
23	Atlantic Coast Pipeline *	FT	365	0	0	160,000	160,000	160,000
24	Total Year Round FT			660,720	660,720	820,720	820,720	820,720
25								
26	Transco	FT Southern Expansion	151	72,502	72,502	72,502	72,502	72,502
27	East TN (TETCO Upstream)	FT	151 ¹	24,798	24,798	24,798	24,798	24,798
28	Transco	FT	90	6,314	6,314	6,314	6,314	6,314
29	Total Winter Only FT			103,614	103,614	103,614	103,614	103,614
30								
31	Firm Transportation Subtotal			764,334	764,334	924,334	924,334	924,334
32								
33	Hardy Storage	HSS	70	68,835	68,835	68,835	68,835	68,835
34	Dominion	GSS	60 ²	0	0	0	0	0
35	Columbia Gas	FSS/SST	59	86,368	86,368	86,368	86,368	86,368
36	Transco	GSS	55	77,475	77,475	77,475	77,475	77,475
37								
38	Total Seasonal Storage			232,678	232,678	232,678	232,678	232,678
39								
40	Peaking Capacity							
41	Piedmont	LNG - Huntersville	10	100,000	100,000	100,000	100,000	100,000
42	Piedmont	LNG - Bentonville	10	90,000	90,000	90,000	90,000	90,000
43	Transco	Pine Needle	10	263,400	263,400	263,400	263,400	263,400
44	Transco	LNG (formerly LG-A)	5	8,643	8,643	8,643	8,643	8,643
45	Piedmont	LNG - Robeson	TBD ³	0	0	TBD	TBD	TBD
46	Peaking Supplies Total			462,043	462,043	462,043	462,043	462,043
47								
48	Total Capacity			1,459,055	1,459,055	1,619,055	1,619,055	1,619,055
49				10,429	(25,308)	107,943	80,746	53,096

* Atlantic Coast Pipeline scheduled to come on line in fourth quarter 2021

¹ East TN capacity is 365 days, however the upstream TETCO capacity delivering to East TN is 151 days

² Beginning in FY2015, Dominion capacity removed as available capacity on design day due to non-firm backhaul from Transco Zone 6.

³ The facility is anticipated to be completed in the summer of 2021, and therefore is forecasted to provide peaking support starting winter 2021-2022. The capacity portfolio will be restructured to include Robeson LNG using the "best cost" gas purchasing policy while taking into account the customer load profile.

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Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket
CP18-485	Texas Eastern Transmission, LP Transcontinental Gas Pipe Line Company, LLC	6/14/2018	5/17/2018	Intervened on 6/14/2018	TETCO and Transco are filing to abandon a gathering lateral and related facilities located in offshore federal waters in the Gulf of Mexico near Louisiana. Specifically, the applicants propose to abandon in place about 20.5 miles of a 12-inch diameter offshore gathering lateral, designated as Line 41- A-5-B, abandon the metering and regulating station number 72135, receipt point 73646, and delivery point 73702, and abandon by removal all related appurtenant facilities.	On 6/14/2018, several entities protested this filing. On 6/29/2018, TETCO answered the protest. Other entities intervened.
CP18-486	Texas Eastern Transmission, LP Transcontinental Gas Pipe Line Company, LLC	6/14/2018	5/18/2018	Intervened on 6/14/2018	TETCO, Transco, and Northern are filing a joint application to abandon a supply lateral and related facilities located in offshore federal waters in the Gulf of Mexico near Louisiana. Specifically, the applicants propose to abandon in place about 12.0 miles of a 16-inch diameter offshore supply lateral, designated as Line 41-A-8, abandon receipt point numbers 73674 and 71710, and abandon by removal all related appurtenant facilities.	Other entities have intervened.
RP18-843	Texas Eastern Transmission, LP	6/11/2018	5/30/2018	Intervened on 6/8/2018	TETCO's tariff states that it will file a penalty disbursement report within sixty days of August 31 or sixty days after the end of a Month for which Action Alert or OFO penalty revenue collected exceeds \$1,000,000, throughout the filing period. This penalty disbursement report sets forth the total amount of penalties collected and the proposed credits for each non-offending customer.	Various interventions were filed.
CP18-505	Texas Eastern Transmission, LP	7/20/2018	6/18/2018	Intervened on 7/20/2018	TETCO is filing to abandon in place and by removal in total approximately 212.35 miles of various 30-inch diameter pipelines located in Louisiana, and offshore in state and federal waters in the Gulf of Mexico due to declining gas production in these offshore areas served by the Cameron System. TETCO states that the facilities proposed for abandonment are not required to meet current firm service obligations.	Other entities have intervened.
CP18-507	Columbia Gas Transmission, LLC	8/28/2018	6/19/2018	Intervened on 8/28/2018	TCO is requesting authorization to perform installations and activities to enable the in-line inspection of its 12-inch-diameter Line 5. TCO proposes to perform installations and modifications to TCO's existing Line 5 to allow for the internal passage of ILI devices in order to assess the integrity of the pipeline. TCO states that the project is required to ensure compliance with the PHMSA requirements for inspections of pipeline systems to ensure their safety and reliability.	Other entities have intervened.
CP18-508	Columbia Gas Transmission, LLC	7/26/2018	6/20/2018	Intervened on 7/20/2018	TCO is seeking authorization to make segments piggable by installing bi-directional launchers, receivers, mainline valves and other appurtenant facilities, all located in Madison and Fayette Counties, Kentucky as part of its modernization program. TCO estimates the cost of the facilities to be \$8.2 MM and as part of its application, TCO has included a request for pre-determination of rolled-in rate treatment.	On 1/17/2019, the Order Issuing Certificate was issued. TCO accepted its certificate on 1/28/2019.
RP18-912	Texas Eastern Transmission, LP	7/10/2018	6/28/2018	Intervened on 7/10/2018	TETCO is filing revised Current Unit EPC Changes and revised EPC Surcharges, to be effective August 1, 2018. The revised tariff records reflect changes in TETCO's EPC Adjustment such that, for example, the primary firm capacity reservation charges, usage rates and 100% load factor average costs for full Access Area Boundary service from the Access Area Zone ELA (East Louisiana) to the three market area zones	On 7/26/2018, a letter order accepting TETCO's filing was issued.
CP18-515	Columbia Gas Transmission, LLC	9/7/2018	6/29/2018	Intervened on 9/7/2018	TCO is filing for authorization to abandon two injection/withdrawal wells at its Brinker Storage Field, located in Columbiana County, Ohio, one I/W well at its Victory B Storage Field, located in Marshall County, West Virginia, and associated pipelines and appurtenances due to poor performance. The filing reflects that the cost to replicate the facilities is \$4.8 million while the cost of retirement would be around \$750,000. The filing does not state whether this project is part of the Modernization Program.	Other entities have intervened. TCO has responded to discovery requests.
CP18-518	Columbia Gas Transmission, LLC	9/14/2018	7/6/2018	Intervened on 9/14/2018	TCO is filing to request authorization to abandon 12 injection/withdrawal wells and associated pipelines and appurtenances at five of Columbia's Ohio storage fields located in Ashland, Medina, and Richland counties, Ohio due to poor performance. The filing reflects that the cost to replicate the facilities is \$24 MM while the cost of retirement would be around \$3 MM. The filing does not state whether this project is part of the Modernization Program.	Other entities have intervened.
CP18-533	Texas Eastern Transmission, LP	8/28/2018	7/24/2018	Intervened on 8/28/2018	TETCO is requesting authorization to abandon in place and by removal a total of approximately 30 miles of 12-inch, 10-inch, and 8-inch diameter lateral pipeline; abandon by removal all of the facilities at metering and regulating station 70191; and abandon by removal other related appurtenances. TETCO states that the project will eliminate the need for future operating and maintenance expenditures on facilities that are no longer needed to provide transportation service and have not been used in over a year. TETCO further states that abandonment of these facilities will not result in any impact on certificated capacity on its system or in a reduction in firm service to existing customers.	Other entities have intervened.

Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket
RP18-1000	Transcontinental Gas Pipe Line Company, LLC	8/13/2018	7/30/2018	Intervened on 8/13/2018	Transco received its portion of penalty disbursement for storage service purchased under TETCO's Rate Schedule X-28 which is used by Transco to provide service to its customers under its Rate Schedule S-2. Transco refunded the amount received from TETCO, with interest, to its Rate Schedule S-2 customers on July 27, 2018.	Several motions to intervene have been filed.
RP18-1001	Transcontinental Gas Pipe Line Company, LLC	8/13/2018	7/30/2018	Intervened on 8/13/2018	Transco is filing to track rate changes attributable to storage service purchased from TETCO under its Rate Schedule X-28. These costs are included in the rates and charges payable under Transco's Rate Schedule S-2. These changes have been approved by Commission letter order.	Several motions to intervene have been filed. On 8/23/2018, the Commission issued a letter order accepting Transco's filing.
RP18-1045	Transcontinental Gas Pipe Line Company, LLC	8/15/2018	8/3/2018	Intervened on 8/15/2018	Transco is filing to track rate changes attributable to storage service purchased from TETCO under its Rate Schedule X-28. These costs are included in the rates and charges payable under Transco's Rate Schedule S-2. These changes have been approved by Commission letter order.	Several motions to intervene have been filed. On 8/23/2018, the Commission issued a letter order accepting Transco's filing.
RP18-1074	Texas Eastern Transmission, LP	9/4/2018	8/22/2018	Intervened on 9/4/2018	After filing its updated EPC surcharge (accepted in Docket No. RP18-1074), TETCO has determined that the currently-effective EPC Surcharge applicable to recourse rates for the Gulf Markets 1 and 2 Projects would result in a significant over-recovery of the Gulf Markets 1 and 2 Projects balance in the applicable Deferred EPC Sub-Account as of April 30, 2018. Accordingly, TETCO is proposing to reduce the EPC Surcharge for the Gulf Markets 1 (from \$0.1060 to \$0.0788) and 2 Projects (from \$0.1658 to \$0.0868), effective on September 1, 2018.	Several motions to intervene have been filed. On 9/20/2018, the Commission issued a letter order accepting TETCO's filing.
RP18-1084	Texas Eastern Transmission, LP	9/10/2018	8/27/2018	Intervened on 9/7/2018	TETCO is filing its report of recalculated Operational Segment Capacity Entitlements based on the 2017 Operational Entitlements adjusted to reflect the changes in allocation of capacity in certain locations as a result of contract terminations, as well as remarketing of unsubscribed capacity.	Several motions to intervene have been filed.
RP18-1126	Transcontinental Gas Pipe Line Company, LLC	9/12/2018	8/31/2018	Intervened with Protest on 9/12/2018	Transco filed its Section 4 Rate Case.	On 3/18/2019, a letter order was issued accepting Transco's motion to place suspended tariff into effect.
CP18-544	Columbia Gas Transmission, LLC	9/25/2018	9/5/2018	Intervened on 9/21/2018	Columbia Gas seeks issuance of a temporary certificate authorizing the installation of temporary compression at its Petersburg Compressor Station in Prince George County, Virginia, in order to maintain uninterrupted service to its customers during an unanticipated outage of existing compression due to emergency restoration activities required at the Station site. Columbia states that subsidence due to poor soil conditions has resulted in foundation damage as well as the unsafe buildup of stresses on Station piping that presents safety and reliability risks if further settlement is not prevented.	Other entities have intervened.
RP19-62	Dominion Energy Transmission, Inc.	10/23/2018	10/11/2018	Intervened on 10/23/2018	Dominion's 501-G Filing.	On 3/8/2019, an order was issued terminating this proceeding.
RP19-63	East Tennessee Natural Gas, LLC	10/23/2018	10/11/2018	Intervened on 10/23/2018	ETNG's 501-G Filing.	On 1/2/2019, the Order setting the procedural schedule was issued. On 1/8/2019, the Order establishing the rules of procedure was issued. On 1/9/2019 a motion for adoption of protective order was filed and approved by 1/31/2019 Order.

Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket
RP19-101	Texas Eastern Transmission, LP	10/31/2018	10/19/2018	Intervened on 10/29/2018	TETCO is filing a series of tariff modifications in order to comply with the Commission's Order issued on February 15, 2018 in Docket No. CP15-499 granting authorization for the South Texas Expansion Project and for the Pomelo Connector, LLC to construct the Pomelo Connector Pipeline. These modifications include its approved revised incremental rates, along with workpapers showing the calculation of the rates, and various modifications to describe the nature of service on these projects.	Several motions to intervene have been filed.
RP19-117	Texas Eastern Transmission, LP	11/5/2018	10/24/2018	Intervened on 11/5/2018	TETCO is submitting tariff sections setting forth the rates from December 1, 2018, through November 30, 2019 under a Commission-approved Settlement. These tariff sections reflect the estimate of TETCO's Year 2 Eligible PCB-Related Costs of approximately \$1,865,000 of which approximately \$1,072,375 is recoverable pursuant to the Settlement. Approximately \$1,436,601 is eligible to be reflected in current proposed rates. This \$1,436,601 reflects an IT revenue credit of approximately \$13,792 and a deferred account balance of approximately \$378,018, and is less than the annual cap of \$5,000,000.	Several motions to intervene have been filed. On 11/29/2018, a letter order accepting TETCO's filing was issued.
RP19-136	Transcontinental Gas Pipe Line Company, LLC	11/13/2018	10/29/2018	Intervened on 11/9/2018	Transco is filing its report showing the distributed penalty sharing amounts to all affected shippers. The report shows a total penalty revenue, including interest, of \$161,371.06.	Several motions to intervene have been filed.
RP19-211	Columbia Gulf Transmission, LLC	11/13/2018	10/31/2018	Intervened on 11/9/2018	Columbia Gulf is filing to adjust Columbia Gulf's retainage percentage as permitted by the pipeline's Transportation Retainage Adjustment. Because Columbia Gulf is utilizing more compression to transport gas in a single direction along the mainline, and therefore burning more compressor fuel than originally anticipated in the 2018 Annual TRA Filing, Columbia Gulf has experienced an aggregate under-recovery of Company-Use of approximately 3.4 Bcf between January and September of 2018. This set of circumstances has created an urgent operational situation on the Columbia Gulf system which requires that the Company-Use component of the mainline retainage rate be adjusted through a periodic TRA filing.	On 1/29/2019, a technical conference was scheduled for 3/20/2019.
RP19-204	Texas Eastern Transmission, LP	11/13/2018	10/31/2018	Intervened on 11/9/2018	TETCO is filing its Annual Applicable Shrinkage Adjustment and Interruptible Revenue Reconciliation Report. In this report, TETCO is proposing changes in ASA Percentages for system customers and changes in its ASA Surcharge rates in order to clear the net balance in the ASA Deferred Account as of August 31, 2018. For historic long-haul service, this filing implements a decrease in the annual average ASA Percentage of 0.26% and an increase in the ASA Surcharge of 2.33 cents per dekatherm. For those system customers accessing the Market Area zones, this filing on average reduces fuel by 0.28%.	On 11/15/2018, a letter order was filed accepting TETCO's filing.
RP19-163	Transcontinental Gas Pipe Line Company, LLC	11/13/2018	10/31/2018	Intervened on 11/9/2018	Transco is filing to track rate changes attributable to storage services purchased from Dominion Transmission, Inc. under its Rate Schedule GSS. On September 28, 2018, Dominion filed revised tariff records in order to update its Electric Power Cost Adjustment and filed revised tariff records in order to update its Transportation Cost Rate Adjustment. Included in those filings are revised rates under Dominion's Rate Schedule GSS that Transco uses to render service to its customers under its Rate Schedules GSS and LSS. In order to track these changes, the daily injected charge was decreased from \$0.05082 to \$0.05061 per dt and the withdrawal charge was decreased from \$0.04314 to \$0.04292 per dt on Rate Schedule GSS. On Rate Schedule LSS, the injected charge decreased from \$0.02949 to \$0.02929 per dt and the withdrawn charge decreased from \$0.02231 to \$0.02211, while the demand charge increased from \$0.15057 to \$0.15058 per dt.	Several motions to intervene have been filed. On 11/29/2018, a letter order accepting Transco's filing was issued.
RP19-222	Columbia Gas Transmission, LLC	11/13/2018	11/1/2018	Intervened on 11/9/2018	TCO is filing to adjust its Operational Transaction Rate Adjustment for the upcoming 2018 winter season. TCO is proposing to collect costs associated with the upcoming OTRA winter season of November 2018 through March 2019 in the amount of \$3,546,325. Additionally, TCO is proposing to include \$1,102,580 of under-recoveries from the previous OTRA period in its calculation of the OTRA true-up surcharge.	On 11/27/2018, a letter order was filed accepting TCO's filing.

Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket
CP19-14	Mountain Valley Pipeline, LLC	12/10/2018	11/6/2018	Intervened on 12/10/2018	MVP is requesting authorization to construct, own and operate its Southgate Project located in Virginia and North Carolina, consisting of approximately 73 miles of new 24-inch and 16-inch-diameter pipeline, the 28,915 horsepower Lambert Compressor Station in Pittsylvania County, Virginia, and associated valves, piping, pig launching and receiving facilities, and appurtenant facilities. The proposed Southgate Project facilities commence near the City of Chatham, in Pittsylvania County, Virginia and terminate at a delivery point with PSNC near the City of Graham in Alamance County, North Carolina.	Interventions and Comments filed. MVP filed a response to comments and protests on 1/8/2019.
RP19-262	Hardy Storage Company, LLC	11/20/2018	11/8/2018	Intervened on 11/14/2018	Hardy is filing a stipulation in lieu of a 501-G filing that will implement reduced rates to be effective January 1, 2019. The settlement provides that Hardy will file a cost and revenue study on or before June 1, 2022, reservation rates for firm service and the fixed cost components of its one-part rates have been reduced by 7.8 percent, and overall cost of service underlying the settlement rates has been determined on a negotiated, "black box" basis. In its filing, Hardy has requested a shortened comment period of 5 days for this filing.	On 11/28/2018, an order was issued accepting the settlement.
RP19-280	Spectra Energy Partners, LP	11/20/2018	11/8/2018	Intervened on 11/20/2018	Spectra is requesting a limited waiver of the No-Conduit Rule adopted by the Commission in Order No. 787. The No-Conduit Rule "prohibits recipients of non-public, operational information [received] pursuant to [Order No. 787] from subsequently disclosing that information to a third party," and applies to employees of interstate pipelines who are shared with non-jurisdictional intrastate pipeline affiliates. Spectra is requesting this waiver for Algonquin Gas Transmission, LLC, Bobcat Gas Storage, Big Sandy Pipeline, LLC, Egan Hub Storage, LLC, East Tennessee Natural Gas, LLC, Maritimes & Northeast Pipeline, L.L.C. Market Hub Partners Holding, LLC, NEXUS Gas Transmission, LLC, Ozark Gas Transmission, L.L.C., Sabal Trail Transmission, LLC, Saltville Gas Storage Company L.L.C., Southeast Supply Header, LLC, Steckman Ridge, LP, and Texas Eastern Transmission, LP.	On 1/4/2019, an Order granting the waiver was issued .
RP19-292	Midwestern Gas Transmission Company	11/27/2018	11/15/2018	Intervened on 11/27/2018	Midwestern is proposing to update its tariff in Part 8, Section 2, Gas Quality and Pressure, Subpart 2.4, Refusal of Out of Quality Specification Gas, to add language clarifying Midwestern's ability to waive gas quality specifications consistent with its general tariff waiver provision included in Part 8, Section 13 in order to provide operational flexibility.	Several motions to intervene have been filed.
RP19-297	Texas Eastern Transmission, LP	11/21/2018	11/16/2018	Intervened on 11/21/2018	TETCO filed a petition requesting an extension of time to file its 501-G filing from December 6, 2018 until December 31, 2018 since it is scheduled to file a rate case by that date.	On 11/27/2018, FERC issued a notice indicating that TETCO's extension had been accepted.
CP19-21	Columbia Gas Transmission, LLC	2/4/2019	11/27/2018	Intervened on 2/1/2019	TCO is requesting authorization to construct and operate its Artemas A Storage Field New Wells Project. The project consists of three new directional storage wells and related pipelines and appurtenances at TCO's Artemas A Storage Field, located in Bedford County, Pennsylvania in order to improve storage deliverability of the field, as part of the Modernization II Settlement. The Artemas A Storage Field currently consists of 17 active wells and is operated with a total capacity of 14.457 Bcf consisting of 13.70 Bcf of certificated base and working gas, and approximately 0.757 Bcf of residual native gas.	Motions to intervene have been filed.
RP19-343	Texas Eastern Transmission, LP	12/12/2018	11/30/2018	Intervened w/ Protest on 12/12/2018	TETCO's section 4 rate case proceeding.	On 3/6/2019, PNG filed a notice to update the service list in this docket. On 04/04/19, a request to update official service list on behalf of NJ Board of Public Utilities was filed.
RP19-406	Columbia Gas Transmission, LLC	12/18/2018	12/6/2018	Intervened on 12/18/2018	TCO's 501-G filing. TCO elected Option 3, no adjustment.	Several interventions were filed in this docket. On 04/04/2019, an Order Terminating FERC Form No. 501-G Proceeding re Dominion Energy Carolina Gas Transmission

Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket
RP19-408	Columbia Gulf Transmission, LLC	12/18/2018	12/6/2018	Intervened on 12/18/2018	Columbia Gulf's 501-G filing. Columbia Gulf elected Option 3, no adjustment.	Several interventions were filed in this docket. On 04/26/2019, an order was issued terminating FERC Form No. 501-G proceeding.
RP19-424	Pine Needle LNG Company, LLC	12/18/2018	12/6/2018	Intervened on 12/18/2018	Pine Needle's 501-G filing. Pine Needle elected Option 3.	Several interventions were filed in this docket.
RP19-489	Texas Eastern Transmission, LP	1/7/2019	12/26/2018	Intervened on 1/4/2019	TETCO is filing its revised Current Unit EPC Changes and revised EPC Surcharges, to be effective February 1, 2019. TETCO is basing its electric power cost projections on the latest actual twelve months of electric power costs, as well as the latest actual twelve months of throughput quantities (November 2017 through October 2018) and its projections of customer demand quantities are based upon the effective demand billing determinants as of December 1, 2018, annualized to reflect known and measurable changes for the twelve-month period commencing February 1, 2019.	On January 24, 2019, a letter order was issued accepting TETCO's filing.
RP19-515	Columbia Gas Transmission, LLC	1/14/2019	12/31/2018	Intervened on 1/15/2019	TCO is filing to complete the implementation of Article III of its Modernization II Settlement by resetting and reducing Columbia's base transportation recourse rates under Rate Schedules FTS, NTS, NTS-S, ITS, GTS, OPT, TPS, and SST to be effective February 1, 2019 by adding the Base Rates as of January 31, 2019, and the CCRM rate as of January 31, 2019.	On January 23, 2019, a letter order was issued accepting TCO's filing.
RP19-517	Columbia Gas Transmission, LLC	1/14/2019	12/31/2018	Intervened on 1/15/2019	TCO is filing to recover its revenue requirements for specified capital investments made under its long-term plan to modernize its interstate transportation system through its CCRM. This filing proposes to establish a CCRM Daily Rate of \$0.0156, applicable to Rate Schedules FTS, NTS, NTS-S, TPS, and SST and a CCRM Daily Rate of \$0.0313 for Rate Schedule GTS, \$0.0143 for Rate Schedule OPT-30 Day, \$0.0131 for Rate Schedule OPT-60 Day \$0.0156 for Rate Schedule ITS-Winter, and \$0.0104 for Rate Schedule ITS-Summer.	Other parties intervened.
CP19-36	Columbia Gas Transmission, LLC	3/18/2019	1/4/2019	Intervened on 3/19/2019 *FERC website was down	TCO is requesting authorization to replace two segments, totaling approximately 3.27 miles, of its existing 10.75-inch-diameter bare steel pipeline (Line 134) with a 10-inch-diameter coated pipeline and to perform other related appurtenant activities, all located in Armstrong and Butler Counties, Pennsylvania as part of its Modernization Program II. The estimated cost of this project is approximately \$16.6 million. TCO states that this project will not result in a reduction or abandonment of service.	Several interventions filed.
CP19-37	Columbia Gas Transmission, LLC	3/18/2019	1/8/2019	Intervened on 3/19/2019 *FERC website was down	TCO is requesting authorization to construct and operate its Lucas and Weaver New Wells Project, which consists of constructing seven new injection/withdrawal storage wells and related pipelines and appurtenances in order to restore late season deliverability to the Lucas and Weaver Storage Fields. Columbia states the proposed new wells would have no impact on existing customers or storage operations, and that there would be no changes in the certificated parameters of either storage field. Columbia estimates the cost of the project to be approximately \$30 MM, which will be financed through "internally generated funds."	Several interventions filed. On 04/19/2019, a letter order granting Columbia Gas Transmission's request to implement alternative measures to the required standards for Lucas and Weaver New Wells Project was issued.
CP19-43	Transcontinental Gas Pipe Line Company, LLC	2/1/2019	1/11/2019	Intervened on 2/1/2019	Transco is requesting authorization to abandon 22,840 dt/day of firm transportation capacity in the pipeline segment from Station 30 to Station 65 that it provides to Consolidated Edison Company of New York, Inc. Transco is making this request in order to permit Con Ed to reduce its contracted firm transportation capacity and turn back such capacity to Transco, effective as of the later of March 1, 2019 or upon Commission approval, subject to a turn-back agreement entered into between Transco and Con Ed.	On 2/6/2019, a letter order was issued approving the abandonment of service.
CP19-51	Columbia Gas Transmission, LLC	2/21/2019	1/17/2019	Intervened on 2/21/2019	TCO is requesting authorization to replace and upgrade its VNG Suffolk No. 3 Meter Station, located in Suffolk, Virginia. TCO states that the proposed project will increase the delivery capability of that meter station by 8,270 dekatherms per day while maintaining TCO's current certificated capacity levels. TCO asserts that there will be no change in pipeline system capacity as a result of the proposed project. TCO estimates the cost of the project to be approximately \$6.3 million and has requested rolled-in rate treatment for the costs associated with the project.	Several interventions filed.

Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket												
CP19-54	Transcontinental Gas Pipe Line Company, LLC	2/12/2019	1/22/2019	Intervened on 2/8/2019	Transco is requesting authorization to abandon a portion of the firm transportation service that it provides to The Brooklyn Union Gas Company D/B/A National Grid NY (16,725 dt/day) and Keyspan Gas East Corporation D/B/A National Grid (10,492 dt/day) under Rate Schedule FT service agreements in order to reduce their contracted firm transportation capacity under the service agreements and turn back such capacity to Transco. Transco is requesting this abandonment be effective as of the later of March 1, 2019 or upon Commission approval, subject to turn-back agreements entered into with National Grid NY and National Grid.	Several interventions filed. On 2/14/2019, a letter order approving the abandonment of service was issued.												
RP19-638	Columbia Gas Transmission, LLC	2/19/2019	2/4/2019	Intervened on 2/19/2019	TCO is filing to correct an error in its CCRM rates that were filed and accepted by the Commission in Docket No. RP19-517. This correction results in a small reduction in its CCRM rates. TCO has requested that these rates become effective February 1, 2019, consistent with the previously accepted rates.	On 2/26/2019, a letter order was issued accepting TCO's filing.												
RP19-697	Midwestern Gas Transmission Company	3/11/2019	2/26/2019	Intervened on 3/11/2019	In compliance with the stipulation filed in Docket No. RP18-441-000, Midwestern is filing tariff records that implement a tracker and true-up for fuel, loss and unaccounted for volumes.	On 3/14/2019, a letter order was issued accepting Midwestern's filing.												
RP19-798	Transcontinental Gas Pipe Line Company, LLC	3/13/2019	3/1/2019	Intervened on 3/13/2019	Transco is filing to adjust its annual fuel retention rates.	Several interventions were filed. On 3/26/2019, a letter order was issued accepting Transco's filing.												
RP19-764	Columbia Gas Transmission, LLC	3/13/2019	3/1/2019	Intervened on 3/13/2019	TCO is filing to adjust its retainage percentage consistent with its Retainage Adjustment Mechanism. The filing indicates that the retainage rates will increase for transportation (+0.038% to 1.492) and gathering (+0.500% to 5.000%), but will decrease for storage gas loss (-0.190% to 0.350%) and Ohio storage gas loss (-0.140% to 0.470%).	Several interventions were filed. On 3/21/2019, a letter order was issued accepting TCO's filing.												
RP19-763	Columbia Gas Transmission, LLC	3/13/2019	3/1/2019	Intervened on 3/13/2019	TCO is filing tariff sections in order to establish its Transportation Costs Rate Adjustment for the annual period beginning April 1, 2019 in order to recover its costs associated with the transmission and compression of gas by others, or its Account No. 858 costs. TCO states that the estimated prospective 858 Costs for the twelve-month period commencing April 1, 2019 are \$45,380,926,6 compared to \$30,976,733 of estimated prospective 858 Costs included in last year's TCRA filing. TCO states that the unrecovered past 858 Costs, inclusive of interest, reflect a net under-recovery of \$3,298,333, which consists of an under-recovery of \$2,838,946 in demand costs and an under-recovery of \$459,387 in commodity costs. As a result of the under-recovery, TCO's TCRA results in an increase for all rate schedules affected.	Several interventions and some protests were filed. On 3/27/2019, an Order Accepting and Suspending Tariff Record Subject to Refund and Outcome of Technical Conference was issued.												
RP19-787	Columbia Gulf Transmission, LLC	3/13/2019	3/1/2019	Intervened on 3/13/2019	Columbia Gulf is filing to adjust its retainage percentages consistent with its Transportation Retainage Adjustment mechanism.	Several interventions and some protests were filed. On 3/27/2019, an Order Accepting and Suspending Tariff Record Subject to Refund and Outcome of Technical Conference was issued.												
RP19-800	Transcontinental Gas Pipe Line Company, LLC	3/13/2019	3/1/2019	Intervened on 3/13/2019	Transco is filing to reflect increases in its Transmission Electric Power rates for the upcoming annual period beginning April 1, 2019.	Several interventions were filed. On 3/26/2019, a letter order was issued accepting Transco's filing.												
RP19-945	Pine Needle LNG Company, LLC	4/9/2019	3/28/2019	Intervened on 04/09/2019	Pine Needle is filing its redetermination of its fuel retention percentage applicable to storage services and changes to its Electric Power rates, effective May 1, 2019. The table below details these changes: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Current</th> <th>Proposed</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td>FRP</td> <td>2.28%</td> <td>2.24%</td> <td>-0.04%</td> </tr> <tr> <td>EP Rate</td> <td>.01238</td> <td>.01131</td> <td>-.00107</td> </tr> </tbody> </table>		Current	Proposed	Change	FRP	2.28%	2.24%	-0.04%	EP Rate	.01238	.01131	-.00107	On 04/24/2019, a letter order was issued accepting Pine Needle's filing.
	Current	Proposed	Change															
FRP	2.28%	2.24%	-0.04%															
EP Rate	.01238	.01131	-.00107															

Docket Number	Pipeline / Applicant	Deadline Date	Filed Date	Action	Description	Status of Docket
CP19-26	Dominion Energy Transmission, Inc.	12/11/2018	12/18/2019	Intervened on 1/22/2019	DETI is requesting authorization to construct, own, and operate its West Loop Project which consists of approximately 5.1 miles of 36-inch diameter pipeline looping parallel to the existing TL-400 line, from Koppel Junction Site heading west to a new gate site in Beaver County, Pennsylvania. The project also comprises minor changes to existing facilities at the Beaver Compressor Station in Beaver County, Pennsylvania and the Old Petersburg Regulation Facility in Lawrence County, Pennsylvania, and re-wheeling two centrifugal compressors at the existing Carroll Compressor Station in Carroll County, Ohio. DETI states that the proposed facilities will enable it to provide 150,000 dekatherms per day of firm transportation service from Pennsylvania to Ohio for delivery to a proposed natural gas-fired combined cycle electric power generation facility to be located in Columbiana County, Ohio. Dominion estimates the cost of the West Loop Project to be \$94,203,462.	Several other parties have intervened.
RP19-987	East Tennessee Natural Gas, LLC	4/9/2019	3/28/2019	Intervened on 04/09/2019	ETNG is filing its 2017-2018 Cashout Report which reflects a net loss from cashout activity of \$5,594,554. In accordance with its Rate Schedules LMS-MA, LMS-PA, and PAL, ETNG's 2016-2017 Cashout Report net loss balance of \$6,478,882 will be applied to the current year's net loss of \$5,594,554 to obtain a 2017-2018 Cashout Report net loss balance of \$12,073,436 to be carried forward to the next annual cashout report.	Several interventions were filed.
RP19-1043	Columbia Gas Transmission, LLC	4/15/2019	4/1/2019	Intervened for PNG on 04/15/2019	TCO is filing to lower its OTRA monthly reservation rate for the 2019 summer season to \$0.047 per Dth for Rate Schedule FTS service from the existing 2018 winter season rate of \$0.062 per Dth. The decrease reflects a reduction in current OTRA surcharge costs of approximately \$338,000, an increase of approximately \$510,000 in under-recovered OTRA true-up surcharge costs when compared with the previous winter OTRA season, and a projected increase in total seasonal billing determinants to approximately 102,000,000 Dths.	Several interventions were filed in this docket. On 04/26/2019, a letter order was issued accepting Columbia Gas Transmission's filing.
RP19-1191	Columbia Gas Transmission, LLC	5/13/2019	5/1/2019	Intervened for PNG on 5/14/2019	TCO is filing to increase the recoverable Operational 858 Costs for the period June 1, 2019 through March 31, 2020 by \$6,383,617. The increase is driven primarily by the rate case increase in TETCO's transportation rates, which will result in a \$5,742,878 increase in the Operational 858 Costs.	On 06/27/2019, an Errata Notice to 05/15/2019 Commission issued Notice of Technical Conference in Docket No. RP19-763 issued.
RP19-1225	Transcontinental Gas Pipe Line Company, LLC	5/28/2019	5/16/2019	Intervened for PNG on 5/28/2019	Transco is filing to submit the tariff records reflecting the language proposed in the pro forma tariff records, as directed by the Commission, that became effective subsequent to the January 2, 2018 filing in the Transco Priority of Service Docket (Docket No. RP18-314).	On 06/18/2019, a Letter order accepting Transcontinental Gas Pipe Line Company, LLC's 05/16/2019 filing of tariff records to comply with the Commission's September 7, 2018 order issued in Docket No. RP18-314-000 issued.

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AUG 01 2019

Calculated Weighted Average Temperature - 1/21/1985 - Carolinas

With 2018 Weights Across Weather Stations

<u>High Temp</u>	<u>Low Temp</u>	<u>Avg Temp **</u>	<u>Weather Station</u>	<u>Weighting *</u>	<u>Weighted Avg</u>
1	-12	-5.5	GEV	0.0038	-0.02107
21	-8	6.5	GSO	0.2912	1.892892
24	-5	9.5	CLT	0.3116	2.959873
23	-8	7.5	HKY	0.0569	0.427034
26	-4	11	GSP	0.1706	1.876851
16	-2	7	ECG	0.0090	0.063209
18	-1	8.5	POB	0.0531	0.451128
18	-1	8.5	GWW	0.0833	0.707953
27	5	16	ILM	0.0204	0.326982
Weighted Average Temperature					8.68

* Using 2018 calculated weightings that were updated on 5/21/2018.

** Average of high and low temperatures