

NORTH CAROLINA PUBLIC STAFF UTILITIES COMMISSION

February 22, 2018

Ms. M. Lynn Jarvis, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

Re: Docket No. G-40, Sub 145

Dear Ms. Jarvis:

In connection with the above-captioned docket, I transmit herewith for filing on behalf of the Public Staff the Joint Testimony and Exhibits of Jan A. Larsen, Director, Natural Gas Division; Shawn L. Dorgan, Staff Accountant, Accounting Division; and Julie G. Perry, Accounting Manager, Natural Gas & Transportation Section, Accounting Division.

By copy of this letter, I am forwarding a copy of the above to all parties of record.

Sincerely,

<u>Electronically submitted</u> /s/ Elizabeth D. Culpepper Staff Attorney elizabeth.culpepper@psncuc.nc.gov

c: Parties of Record

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FRONTIER NATURAL GAS COMPANY

DOCKET NO. G-40, SUB 145

JOINT TESTIMONY OF

JAN A. LARSEN, SHAWN L. DORGAN, AND JULIE G. PERRY ON BEHALF OF

THE PUBLIC STAFF - NORTH CAROLINA UTILITIES COMMISSION

February 22, 2018

1	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND
2		PRESENT POSITION.
3	Α.	My name is Jan A. Larsen, and my business address is 430 North
4		Salisbury Street, Raleigh, North Carolina. I am the Director of the
5		Natural Gas Division of the Public Staff. My qualifications and
6		experience are provided in Appendix A.
7	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS
8		PROCEEDING?
9	Α.	The purpose of my testimony is (1) to evaluate the prudence of the
10		natural gas purchases made by Frontier Natural Gas Company
11		(Frontier or Company), (2) to evaluate Frontier's projected peak day
12		demand, and (3) to discuss my recommendation regarding any
13		temporary rate increments or decrements.

Feb 22 2018

1 Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND 2 PRESENT POSITION.

A. My name is Shawn L. Dorgan, and my business address is 430
North Salisbury Street, Raleigh, North Carolina. I am a Staff
Accountant in the Accounting Division of the Public Staff. My
qualifications and experience are provided in Appendix B.

7 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS 8 PROCEEDING?

A. The purpose of my testimony is (1) to present the results of my
review of the gas cost information filed by Frontier in accordance
with G.S. 62-133.4(c) and Commission Rule R1-17(k)(6), (2) to
provide my conclusions regarding whether the gas costs incurred
by Frontier during the 12-month review period ended September
30, 2017, were properly accounted for, and (3) to discuss any
changes to the deferred account reporting during the review period.

16 Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND 17 PRESENT POSITION.

A. My name is Julie G. Perry, and my business address is 430 North
Salisbury Street, Raleigh, North Carolina. I am the Accounting
Manager of the Natural Gas & Transportation Section in the
Accounting Division of the Public Staff. My qualifications and
experience are provided in Appendix C.

1 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS 2 PROCEEDING?

A. The purpose of my testimony is to discuss my investigation and
conclusions regarding (1) the prudence of Frontier's decision not to
hedge during the review period, (2) the proration adjustment
reflected by Frontier, (3) changes to Frontier's deferred account
interest rate, and (4) Frontier's annual review reporting.

8 Q. PLEASE EXPLAIN HOW THE PUBLIC STAFF CONDUCTED ITS 9 REVIEW.

We reviewed the testimony and exhibits of the Company's witness, 10 Α. the Company's monthly Deferred Gas Cost Account reports, 11 monthly financial and operating reports, the gas supply and pipeline 12 transportation contracts, and the Company's responses to Public 13 The responses to the Public Staff data 14 Staff data requests. requests contained information related to Frontier's gas purchasing 15 philosophies, customer requirements, and gas portfolio mixes. 16

17 Q. MR. LARSEN, WHAT IS THE RESULT OF YOUR EVALUATION 18 OF FRONTIER'S GAS COSTS?

- A. Based on the Public Staff's investigation and its review of the data
 in this docket, and the adjustment to Frontier's deferred gas cost
 account discussed later in testimony, I believe that Frontier's gas
 costs were prudently incurred.
- 23

CUSTOMER GROWTH

2	Q.	HOW HAVE FRONTIER'S CUSTOMERS AND THROUGHPUT
3		CHANGED SINCE THE COMPANY'S LAST ANNUAL REVIEW
4		OF GAS COSTS PROCEEDING?
5	Α.	The table below reflects Frontier's customer growth rate of 7.48%
6		during the current review period, which is approximately four times
7		the growth rate of legacy local distribution companies (LDCs) in
8		North Carolina. There was a slight decrease in both Frontier's
9		sales and transportation volumes (expressed in dekatherms or dts)
10		from the prior review period. Since Frontier's winter throughput is
11		largely dependent on weather due to space heating load, the
12		volume change is correspondingly affected by a change in Heating
13		Degree Days (HDDs) as compared to prior periods.

		2016 Review	2017 Review	Change
14	Number of Customers (at September 30)	3,343	3,593	7.48%
15	Sales Volume (dts)	1,016,558	1,012,584	-0.39%
16	Transportation Volume (dts) Total Sales & Transportation Volumes	2,843,234	2,828,955	-0.50%
17	(dts)	3,859,792	3,841,539	-0.47%
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1 Q. MR. LARSEN, DID FRONTIER AQUIRE ADDITIONAL PIPELINE 2 CAPACITY DURING THE REVIEW PERIOD?

- A. Yes. Frontier acquired an additional 2,663 dts per day of
 Transcontinental Gas Pipeline Company, LLC (Transco) year round
 pipeline capacity effective January 2017, which results in a total
 pipeline capacity for Frontier of 8,613 dts per day.
- Frontier states that it will continue to seek incremental pipeline capacity and evaluate storage opportunities in order to serve its customers. Frontier indicated in a data request response that it reached out to gas companies and municipalities in order to partner to obtain additional capacity on Transco. Frontier also indicated that it did not encounter any storage opportunities.

13 Q. MR. DORGAN, HAS THE COMPANY PROPERLY ACCOUNTED

14 FOR ITS GAS COSTS DURING THE REVIEW PERIOD?

A. Yes, except for the deferred account adjustment and the reporting
revisions to the Company's filed annual review schedules that will
be discussed later in testimony.

18 Q. MR. LARSEN, WHAT OTHER ITEMS DID THE NATURAL GAS
 19 DIVISION REVIEW?

A. Even though the scope of Commission Rule R1-17(k) is limited to a
 historical review period, the Public Staff's Natural Gas Division also
 considers other information received pursuant to the data requests
 in order to anticipate the Company's requirements for future needs,

including design day estimates, forecasted gas supply needs,
 projection of capacity additions and supply changes, and customer
 load profile changes.

4 ACCOUNTING FOR AND ANALYSIS OF GAS COSTS

Q. MR. DORGAN, HOW DOES THE ACCOUNTING DIVISION GO
 ABOUT CONDUCTING ITS REVIEW OF THE COMPANY'S
 ACCOUNTING FOR GAS COSTS?

A. The Public Staff's Accounting Division reviews the Company's
monthly Deferred Gas Cost Account reports together with all
supporting documentation, monthly financial and operating reports,
as well as the Company's gas supply and transportation contracts.
In addition, I have reviewed the schedules attached to Company
witness Steele's testimony, and the Company's responses to the all
of the Public Staff data requests in this proceeding.

Each month I review the Deferred Gas Cost Account reports filed by the Company for accuracy and reasonableness, and perform certain review procedures on the calculations, including the following:

Gas Cost True-Up - The actual commodity and demand 19 (1) costs are verified, calculations and data supporting gas cost 20 collections are checked, invoices are reviewed, and the 21 checked for calculations are Company's overall 22 23 mathematical accuracy.

- Feb 22 2018
- (2) Transportation Customer Balancing True-Up The monthly Cash-Out Report for each marketer is reviewed and all calculations for cash-out amounts are verified.

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- 4 (3) Interest Accrual Interest accrual calculations on the 5 outstanding Deferred Gas Cost Account balances are 6 verified.
- 7 (4) Hedging Transactions The cost of hedging transactions
 8 are traced to the supporting documentation, and are verified
 9 for mathematical accuracy.
- 10 (5) **Temporary Increments and/or Decrements** All 11 calculations and supporting data regarding collections from 12 and/or refunds to customers that are recorded in the 13 Deferred Gas Cost Account are verified, and supporting data 14 and schedules are reviewed.
- Supplier Refunds In Docket No. G-100, Sub 57, the 15 (6) Commission held that, unless it orders refunds to be handled 16 differently, supplier refunds should be flowed through to 17 ratepayers through a company's deferred account. 1 18 reviewed documentation received by the Company from its 19 suppliers to ensure that the amount received by the 20 21 Company is flowed through to ratepayers.

Q. MR. DORGAN, HOW DO THE COMPANY'S FILED GAS COSTS FOR THE CURRENT REVIEW PERIOD COMPARE WITH THOSE FOR THE PRIOR REVIEW PERIOD?

Frontier's total gas costs for the current review period per the 4 A. Company's monthly deferred account reports filed with the 5 Commission were \$4,641,053, as compared to the prior year of 6 \$5,242,868. In the current review period, in order to agree the cost 7 of gas to the GS-1 Reports filed with the Commission, we reflected 8 the offsetting gas cost true-up entries of \$149,768 as well as entries 9 that are recorded in other cost of gas but do not impact the 10 Company's deferred account of \$58,454, resulting in a total cost of 11 gas for the current review period of \$4,699,507. The components of 12 gas costs incurred for the two periods are as follows: 13

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Frontier Energy, LLC

Docket No. G-40, Sub 145 Comparison of Gas Cost

		12 Mont	hs Ended		Increase	%
Line		Sept. 30, 2017	Sept. 30, 2016	[1]	(Decrease)	Change
	Pipeline Charges					
1	Transco FT	\$1,090,560	\$738,694		\$351,866	47.63%
2	Other	-			-	
3	Total Pipeline Charges	\$1,090,560	\$738,694		\$351,866	47.63%
	Gas Supply Costs					
4	Baseload Purchases	\$3,395,754	\$1,773,314		\$1,622,440	91.49%
5	Delivered Purchases	305,541	212,145		93,396	44.02%
6	Hedge Purchases		1,818,200		(1,818,200)	-100.00%
7	Other	(1,034)	184,108		(185,142)	-100.56%
8	Total Gas Supply Costs	\$3,700,261	\$3,987,767	-	(\$287,506)	-7.21%
	Other Gas Costs					
9	True-up Entries per Monthly					
10	Deferred Account Filings	(149,768)	516,407		(666,175)	-129.00%
11	Additional Non Deferred Account Related Gas Costs	58,454	-	_	58,454	100.00%
12	Total Other Gas Costs	\$(91,314)	\$516,407	_	(\$607,721)	-117.68%
13	Total Gas Costs	\$4,699,507	[2] \$5,242,868	-	(\$543,361)	-10.36%
14	Gas Supply for Delivery (dts)	1,065,672	1,112,904		(47,232)	-4.24%
15	Total Gas Supply Cost per Dt	\$3.4722	\$3.4178	-	\$0.0544	1.59%

Notes:

[1] - Includes reclassified gas costs per Public Staff analysis of the Company's monthly deferred account reports.

[2] - Ties to Income Statement Cost of Gas Sold per Company monthly filings with both the Public Staff and the Commission.

1 The increase in the **Transco Firm Transportation** is due to the 2 addition of 2,663 dts per day of year round pipeline capacity 3 effective January 2017.

4 The **Baseload Purchases** increased due to the fact that there were 5 no physical hedging purchases during the review period as 6 compared to the prior period.

1 The increase in the **Delivered / Daily Purchases** is due to a 2 reduction of physical hedging purchases as compared to the prior 3 year.

4 Other **Gas Supply Costs** decreased due to a prior period 5 adjustment to reclassify pipeline charges to gas supply charges.

6 The decrease in the **Hedging Purchases** is due to the fact that 7 Frontier did not hedge during the current review period.

Gas Supply Costs decreased by \$287,506, due to a decrease in 8 the commodity cost of gas, as well as a decrease in volumes 9 purchased during the current review period as compared with the 10 prior year. As indicated in the chart above, total gas supply cost 11 per dt for the current period decreased by \$.0544 or 1.59% when 12 compared to the prior period. This decrease is generally consistent 13 with the prevailing trends in market indices and spot market prices 14 observed in recent years. 15

16 The change in the **Other Gas Costs** primarily relates to the 17 deferred account activity. These amounts reflect the offsetting 18 accounting journal entries for the information actually recorded in 19 the Company's Deferred Gas Cost Account during the review 20 period. These entries also relate to items that are recorded in other 21 cost of gas but do not impact the Company's deferred account.

1Q.MR DORGAN, ARE YOUR GAS COST COMPUTATIONS IN2AGREEMENT WITH THE COMPANY'S SCHEDULES AS FILED3IN THIS PROCEEDING?

- A. No. I have identified several discrepancies between the
 Company's schedules and the corresponding calculations of the
 Public Staff.
- Q. WERE YOU ABLE TO IDENTIFY THE NATURE OF THE
 DISCREPANCIES, OR OTHERWISE RECONCILE YOUR
 COMPUTATIONS TO THOSE OF THE COMPANY?
- 10 A. Yes, I have been able to reconcile select, both not all, of the
 11 schedules incorporated into the testimony of Company witness
 12 Steele.
- 13 Q. MR. DORGAN, WHICH SCHEDULES WERE YOU ABLE TO 14 RECONCILE?
- A. With the assistance of Company responses to Public Staff Data
 Request No. 1, I was able to reconcile the following schedules:
 Schedule 1, Schedule 4, and Schedule 8. I have provided these
 reconciliations, with explanatory detail for all reconciling items,
 including the Company's proposed proration adjustment, which are
 attached as Public Staff Exhibit I.
- 21

PRORATION ADJUSTMENT

22 Q. MS. PERRY, PLEASE EXPLAIN YOUR UNDERSTANDING OF 23 FRONTIER'S PRORATION ADJUSTMENT.

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Ordering Paragraph 4 of the Commission's Order on Annual 1 A. Review of Gas Costs issued on August 23, 2016, in Docket No. 2 G-40, Sub 130 (2015 Annual Review Order), required Frontier to 3 "begin prorating its Benchmark cost of gas in the calculation of its 4 gas cost collections from customers in a manner consistent with 5 how Frontier prorates customers' bills." In accordance with the 6 2015 Annual Review Order, Frontier started prorating its 7 Benchmark cost of gas rate changes in its deferred account during 8 the 2015-2016 annual review period. During the present review 9 period, in Docket No. G-40, Subs 137 and 141, Frontier filed to 10 change its Benchmark cost of gas effective February 1, 2017, and 11 August 1, 2017, respectively. Based on the template that Frontier 12 and the Public Staff previously agreed that the Company would use 13 (in compliance with Ordering Paragraph 6 of the 2015 Annual 14 Review Order), Frontier filed its February and August 2017 monthly 15 deferred account reports with proration adjustments. During a 16 scheduled audit visit in November 2017, the Company informed me 17 that they had a potential issue with the proration adjustments filed 18 during review period that impacted Frontier's annual review filing. 19 We discussed Frontier's concerns and I requested that the 20 Company send to me the Company's supporting calculations for my 21 review. I received this information the day before Frontier made its 22

annual review filing and did not have time to fully reconcile my
 calculations to the Company's.

3 Q. WHAT IS YOUR RECOMMENDATION TO THE PROPOSED 4 PRORATION ADJUSTMENT?

I have reviewed the Company's proposed adjustment, as well as 5 Α. similar calculations of other LDCs, and I agree that the proration 6 adjustment needs to be revised to reflect the actual unbilled 7 volumes as compared to the estimated unbilled volumes when 8 prorating a benchmark change. Based on the volume and revenue 9 billing data provided by Frontier, I have determined that the 10 proration adjustment correction should be a debit entry of \$98,159, 11 including interest, instead of the \$104,724 as proposed by Frontier, 12 which is shown on Public Staff Panel Exhibit II. I have 13 recommended that Mr. Dorgan update the Company's deferred 14 account balance as of September 30, 2017 for this adjustment. 15

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HEDGING ACTIVITIES

17Q.MS. PERRY, PLEASE EXPLAIN HOW THE PUBLIC STAFF18TYPICALLY CONDUCTS ITS REVIEW OF HEDGING19ACTIVITIES.

A. The Public Staff's review of the Company's hedging activities
typically includes an analysis and evaluation of the following
information:

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- Feb 22 2018
- The Company's monthly hedging costs, as reflected on the 1. invoices of UGI Energy Services, LLC (UGI); 2

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- Detailed source documentation, such as physical gas 2. 3 confirmations, that support the amount of gas hedged and 4 the strike prices; 5
- Workpapers supporting the derivation of the maximum 3. 6 hedge volumes targeted; 7
- The monthly summary of hedging costs (benefits); 4. 8
- Hedging plan documents that set forth the Company's gas 9 5. price risk management policy, hedge strategy, and gas price 10 risk management operations; 11
- Communications with Company personnel throughout the 12 6. review period regarding hedging matters; 13
- Documentation from meetings of Frontier's Supply Team 7. 14 and the Risk Committee of its parent company, Gas Natural 15 16 Inc.;
- Testimony and exhibits of the Company's witnesses in the 8. 17 annual review of gas costs proceeding; and 18
- Company responses to the Public Staff's data requests. 19 9.
- UNDERSTANDING THE YOUR OF EXPLAIN PLEASE 20 Q. STANDARD SET FORTH BY THE COMMISSION FOR 21 EVALUATING THE COMPANY'S HEDGING DECISIONS? 22

The appropriate standard for the review of hedging decisions by 1 Α. LDCs is set forth in the Commission's February 26, 2002, Order on 2 Hedging in Docket No. G-100, Sub 84 (Hedging Order). In the 3 Hedging Order, the Commission concluded that the purpose of 4 hedging is to reduce the volatility of commodity costs. The 5 Commission noted that hedging involves costs and risks and that it 6 is possible that the long term cost of hedged gas will be higher than 7 gas bought at market prices. The Commission stated it understands 8 that, with the use of hedging mechanisms, costs and risks are 9 accepted in exchange for reduced volatility. 10

11 The Commission concluded that hedging is an option that must be 12 considered in connection with an LDCs gas purchasing practices. 13 The Commission stated that an LDCs decision to make no effort to 14 mitigate price spikes--including a decision not to hedge--would be a 15 decision subject to review in the LDCs annual gas cost prudency 16 review proceeding just as much as a decision to hedge.

The Commission further concluded that, if an LDC decides to hedge in some fashion, prudently incurred costs in connection with hedging should be treated as gas costs under G.S. 62-133.4. The Commission stated that while such costs cannot be pre-approved within the context of the annual gas cost prudency review, the Commission indicated that it recognized that the review of the prudency of a decision to hedge or not to hedge should be made on

the basis of the information available at the time each decision is
made, not on the basis of the information available at the time of
the prudency review proceeding.

The Commission ordered that each LDC should address its current hedging policy and program in its testimony in each annual gas cost prudency review, explaining why and how it hedged or why it didn't hedge during the test period.

8 Q. PLEASE DESCRIBE FRONTIER'S HEDGING PROGRAM.

Frontier states that the hedging program is an integral part of an 9 A. overall gas purchasing strategy that attempts to establish price 10 stability, utilize cost efficient purchasing, and reduce the risk of 11 price increases to customers. In its gas purchasing strategy, 12 Frontier uses a weighted average, three-part approach in 13 purchasing its physical gas supplies: first-of-the-month baseload, 14 hedging, and daily swing. A core part of Frontier's strategy is to 15 obtain reliability and price stability by fixing components of its gas 16 costs, primarily commodity costs, through hedging. 17

18 The primary difference between Frontier's hedging approach 19 compared to the approaches of the other LDCs is that Frontier uses 20 physical hedges exclusively and does not use financial hedges, 21 such as options, futures, or swaps. A physical hedge is a fixed 22 price contract between two parties to buy or sell physical natural

gas supplies at a certain future time, at a specific price, which is
 agreed upon at the time the deal is executed. Frontier's gas supply
 portfolio typically includes the physical purchase of fixed price gas
 supplies for delivery at its city gate on a monthly basis.

- 5 Q. PLEASE DESCRIBE YOUR UNDERSTANDING OF THE 6 COMPANY'S HEDGING PROGRAM DURING THE REVIEW 7 PERIOD.
- 8 A. Page 13 of Company witness Steele's testimony states as follows:
 - Q. Did Frontier investigate hedging during the test year and, if so, what were the findings and conclusions?
 - A. Frontier continually monitors the NYMEX natural gas commodity market and associated hedging developments, trends, activity and costs. Frontier did not engage in hedging activity during the current review period of October 2016 to September 2017. Additionally, Frontier evaluated a peak day proposal from UGI.
- 17 Also, in response to a Public Staff data request, the Company
- 18 stated that "Frontier has determined not to utilize a physical hedge
- 19 for any natural gas for the winter 2016-2017 because of its ability to
- 20 purchase almost 70% of our gas supply needs at Zone 3 FOM
- 21 [First of Month] prices as opposed to Zone 5 FOM prices."
- 22 Frontier's decision not to hedge during the review period appears to
- 23 have been influenced by the fact that Frontier had enough physical
- 24 gas purchases to serve its market during the review period rather
- than implementing hedges in an effort to mitigate price spikes to
- 26 customers.

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- 1 Q. BASED ON YOUR REVIEW AND ANALYSIS, WERE THE 2 COMPANY'S HEDGING DECISIONS DURING THE REVIEW 3 PERIOD PRUDENT?
- A. While the Hedging Order does not differentiate between financial
 hedges and physical hedges, the other LDCs in North Carolina all
 have the ability to purchase 100% of their gas supply needs at
 FOM prices as opposed to Zone 5 FOM prices, yet all the other
 LDCs are consistently hedging to avoid the risk of price spikes to
 the utilities' customers. I believe Frontier's customers are similarly
 at risk of unforeseen price spikes in gas prices.
- 11 In my opinion, based on what was reasonably known or should have been known at the time the Company made its hedging 12 decisions affecting the review period, as opposed to the outcome of 13 those decisions, my analysis leads me to the conclusion that the 14 decisions were prudent; however, the Public Staff recommends that 15 the Commission remind Frontier that the purpose of hedging is to 16 reduce price spikes to customers, not just to secure gas supply, 17 and put Frontier on notice that the risk is on Frontier, not its 18 ratepayers, if price spikes occur and no hedging strategies are in 19 20 place in the future.
- 21

DESIGN DAY REQUIREMENTS

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2	Q.	MR. LARSEN, DO YOU HAVE ANY RECOMMENDATIONS								
3		REGARDING HOW FRONTIER IS PLANNING TO MEET FUTURE								
4		SYSTEM DEMAND?								
5	Α.	Ordering Paragraph 6 of the Commission's Order on Annual								
6		Review of Gas Costs issued on June 13, 2017, in Docket No.								
7		G-40, Sub 135 (2016 Annual Review Order) required:								
8 9 10 11 12 13		[t]hat before the filing of Frontier's next annual review proceeding, Frontier shall have a study performed, similar to the consultant report attached to Company witness Steele's testimony as Exhibit FAS-1, discussing, among other things, peak day forecasts and determination of contract demand policy, and made available to the Public Staff for its review.								
14		Attached to Company witness Steele's testimony as								
15		CONFIDENTIAL Exhibit B is a report on Design Day Study								
16		prepared by Dr. Ronald H. Brown, PhD, who utilized the Marquette								
17		University GasDay program in evaluating Frontier's projected peak								
18		day demand. I have evaluated this report and have concluded that								
19		it complies with the 2016 Annual Review Order and accurately								
20		calculates Frontier's peak day using reasonable assumptions, such								
21		as HDDs and frequency of occurrence of such cold weather events.								
22		Based on this report, it appears that Frontier has adequate capacity								
23		in order to serve its firm market on peak days until the 2021-2022								
24		winter period. Due to the confidential nature of this document, I will								
25		not discuss any specifics of the report's findings.								

DEFERRED ACCOUNT BALANCE

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WHAT

THE APPROPRIATE DEFERRED

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2	Q.	MR. DORGAN, WHAT IS THE APPROPRIATE DEFERRED
3		ACCOUNT BALANCE AS OF SEPTEMBER 30, 2017?
4	Α.	I have determined – based on (1) my review of the gas costs in this
5		proceeding, (2) Ms. Perry's recommended proration adjustment to
6		the deferred gas cost account, and (3) Mr. Larsen's opinion that the
7		Company's gas costs were prudently incurred - that the
8		appropriate balance in Frontier's Deferred Gas Cost Account at
9		September 30, 2017, is a \$251,005 debit balance, owed to Frontier.
10		The following chart summarizes Frontier's Deferred Gas Cost
11		Account activity for the current review period:

Filed Deferred Account Balance - October 1, 2016	(\$7,899)
Commodity Gas Cost True-up	249,206
Commodity True-up Adjustments	(71,406)
Transportation Customer Balancing True-up	(33,169)
Transportation Customer Balance Adjustment	5,150
Transco Refund	(15)
Interest	10,982
Rounding/Other	(4)
Filed Deferred Account Balance - September 30, 2017	\$152,846
Public Staff Adjustment to Benchmark Proration incl. Interest	98,159
Public Staff Recommended Deferred Account Balance - September 30, 2017	\$251,005

12 Q. MR. LARSEN, WHAT IS YOUR RECOMMENDATION

13 REGARDING ANY PROPOSED INCREMENTS/DECREMENTS?

A. Company witness Steele testified that Frontier anticipated that the
 current deferred account balance will be moving back toward \$0.00
 over the winter months. Frontier did not propose any temporaries

in this proceeding. As shown in the chart above, Public Staff 1 witness Dorgan states that the appropriate deferred account 2 balance owed from customers to Frontier is a debit balance of 3 \$251,005. While normally the Public Staff would recommend a 4 temporary rate increment in order to collect this debit balance from 5 6 customers, based on our investigation we have determined that Frontier's deferred account has changed significantly since the end 7 of the review period. Consequently, I recommend that Frontier file 8 9 for a Purchased Gas Adjustment (PGA) in mid-March for an effective date of April 1, 2018. I believe this course of action would 10 more quickly and accurately resolve the under-collection of gas 11 costs and would take effect April 1, 2018, which is two or more 12 months earlier than an order would typically be issued in Frontier's 13 annual review proceeding. Therefore, I do not recommend any 14 temporary rate increments or decrements at this time. 15

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ADDITIONAL RECOMMENDATIONS

17 Q. MS. PERRY, DO YOU HAVE ANY RECOMMENDATIONS
 18 REGARDING THE INTEREST RATE ON FRONTIER'S
 19 DEFERRED ACCOUNT?

A. Yes. In Docket No. G-40, Sub 135, Frontier's prior annual review of
 gas costs proceeding, the Public Staff recommended and the
 Commission approved in its Order on Annual Review of Gas Costs
 issued June 13, 2017, that Frontier shall begin calculating interest

on its deferred account using the net-of-tax overall rate of return
approved by the Commission in its Order Approving Use of Natural
Gas Bond Funds issued March 12, 2000, in Docket No. G-40, Sub
2, adjusted for any known corporate income tax rate changes, as
the applicable interest rate on all amounts over-collected or undercollected from customers reflected in its Deferred Gas Cost
Account.

Also in 2017, the Public Staff investigated a merger application filed 8 by Frontier in November 2016 (Docket No. G-40, Sub 136), which 9 caused the Public Staff to further evaluate the appropriate 10 determinants to be used to calculate the earnings of Frontier in 11 order to determine a reasonable overall rate of return applicable to 12 Frontier. This review included the capital structure, debt cost from 13 Frontier's most recent financing docket (Docket No. G-40, Sub 14 133), and a reasonable return on equity. 15

In addition, the 2017 Federal Tax Cuts and Jobs Act has reduced
the corporate federal income tax rate from 35% to 21%, effective
January 1, 2018.

In light of the foregoing, the Public Staff recommends that Frontier
begin using 6.50% as the interest rate on the deferred gas cost
account effective January 1, 2018, as shown on Public Staff Panel
Exhibit II.

1Q.MS PERRY, DO YOU HAVE ANY ADDITIONAL COMMENTS2REGARDING THE REPORTING OF FRONTIER'S ANNUAL3REVIEW SCHEDULES.

Yes. I am concerned that the amounts contained the Company's 4 Α. filed annual review exhibits do not match the monthly deferred 5 account reports filed with the Commission due to (1) the Company 6 inserting proposed proration adjustments into the annual review 7 exhibits that had not been filed with the Commission in the monthly 8 deferred account reports for those months, and (2) the Company 9 re-classifying demand and commodity charges reflected in the 10 annual review exhibits, which do not correlate to charges reflected 11 in the monthly deferred account reports and the invoices reviewed 12 by the Public Staff. 13

Typically, if an LDC believes that a proposed adjustment is 14 warranted, the adjustment is noted in testimony and possibly on 15 Schedule 8 – Deferred Account with a footnote, but the LDC does 16 not restate the total gas costs for the review period. The Public 17 Staff's review procedures include tracing the Company's filed 18 annual review exhibits to the monthly deferred account filings made 19 each month during the review period. Another review procedure 20 agrees the total cost of gas reflected on Schedule 1 to the cost of 21 gas reflected in the monthly financial statements. By the Company 22 inserting the proposed adjustments and restating Schedules 1 and 23

4, not only do the deferred account entries not agree to the filed deferred account reports, but Frontier's filed total cost of gas does not agree to the GS-1 Reports or the monthly financial reports filed by Frontier with the Public Staff and Commission.

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A second issue relates to Frontier's reclassifications of demand and 5 commodity charges in the annual review exhibits as compared to 6 the monthly deferred account reports. Although the total demand 7 and commodity charges reported in the annual review exhibits do 8 agree to the filed monthly deferred account reports, the 9 reclassification of the types of charges reflected in the annual 10 review makes it virtually impossible for the Public Staff to trace 11 specific charges into the monthly deferred account filings. The 12 Public Staff had a similar issue in Frontier's prior annual review of 13 gas costs proceeding and recorded the unreconciled amounts in 14 other supply costs. For the current review period, the Public Staff 15 has presented the demand and commodity charges in our 16 testimony exactly as these charges were reflected on the invoices 17 supporting the monthly deferred account entries that we audited. 18 We have also reflected the Other Gas Costs just as these were 19 20 filed by the Company in the monthly deferred account filings along with entries that are recorded in other cost of gas but do not impact 21 the Company's deferred account. In addition, we excluded the 22 Company's proposed proration adjustments from Other Gas Cost 23

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charges since these were not filed during the review period. By 1 reflecting the information in this manner, we are able to agree the 2 total cost of gas to the financial statements and also now able to 3 state that these amounts agree to our audited monthly deferred 4 account files. Since this has been a recurring issue, the Public 5 Staff recommends that the Commission require Frontier to file 6 annual review schedules that present a summary of its gas costs 7 that agree with its monthly deferred account reports in future annual 8 9 review proceedings.

10 Q. DOES THIS CONCLUDE THE PUBLIC STAFF'S TESTIMONY?

11 A. Yes, it does.

APPENDIX A

QUALIFICATIONS AND EXPERIENCE OF JAN A. LARSEN DIVISION DIRECTOR

PUBLIC STAFF - NATURAL GAS DIVISION NORTH CAROLINA UTILITIES COMMISSION

I graduated from North Carolina State University in 1983 with a Bachelor of Science degree in Civil Engineering. I was employed with Law Engineering Testing Company as a Materials Engineer from 1983 to 1984. From 1984 until 1986, I was employed by the North Carolina Department of Transportation as a Highway Engineer. In 1986, I was employed by the Public Staff's Water Division as a Utilities Engineer I. In 1992, I was promoted to Utilities Engineer II with the Public Staff's Natural Gas Division and promoted to Utilities Engineer III in 2002. In May of 2016, I was promoted to the Director of the Public Staff's Natural Gas Division.

My most current work experience with the Public Staff includes the following topics:

- 1. Rate Design / Allocated Cost-of-Service Studies
- 2. Purchase Gas Cost Adjustment Procedures
- 3. Tariff Filings
- Natural Gas Expansion Project Filings
- 5. Depreciation Rate Studies
- 6. Annual Review of Gas Costs
- 7. Weather Normalization Adjustments
- 8. Customer Utilization Trackers
- 9. Feasibility Studies / Line Extension Policies
- 10. Pipeline Integrity Management Riders
- 11. Utility Mergers and Acquisitions

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SHAWN L. DORGAN

Qualifications and Experience

I am a two-time accounting graduate of Appalachian State University, having earned a B.S.B.A. in Accountancy in 1988 and a Master's of Science in Accountancy (concentration in taxation; functional equivalent of an MST) in 1997. After graduation in August of that year I entered the public accounting industry, working first at the Charlotte practice office of Deloitte & Touche LLP, and later for several local and regional accounting firms in the metro-Charlotte, metro-Raleigh, and metro-Atlanta areas. I am a Certified Public Accountant, licensed in the State of North Carolina. My license number is 27030.

I joined the Public Staff in May 2016, and since have performed numerous cost reviews in both the Natural Gas and Electric Divisions, focusing primarily on annual gas cost reviews, as well as program cost reviews of energy efficiency programs authorized for the state's electric utilities under N.C.G.S. §62-133.9 – *Cost recovery for demand-side management and energy efficiency measures.*

Additionally, I have provided accounting support for several recent high-profile rate cases involving North Carolina's largest electric utilities, focusing in particular on applicant rate-base requests in the area of cash working capital. This support centered primarily on analyses of accounting transactions underlying applicant lead-lag schedules.

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JULIE G. PERRY

Qualifications and Experience

I graduated from North Carolina State University in 1989 with a Bachelor of Arts degree in Accounting and I am a Certified Public Accountant.

Prior to joining the Public Staff, I was employed by the North Carolina State Auditor's Office. My duties there involved the performance of financial and operational audits of various state agencies, community colleges, and Clerks of Court.

I joined the Public Staff in September 1990, and was promoted to Supervisor of the Natural Gas Section in the Accounting Division in September 2000. I was promoted to Accounting Manager – Natural Gas & Transportation effective December 1, 2016. I have performed numerous audits and/or presented testimony and exhibits before the Commission addressing a wide range of natural gas topics.

Additionally, I have filed testimony and exhibits in numerous water rate cases and performed investigations and analyses addressing a wide range of topics and issues related to the water, electric, transportation, and telephone industries.

Public Staff Panel Exhibit I

Frontier Natural Gas, LLC Docket No. G-40, Sub 145

Reconciliation of Results of Company Monthly Filings with the Public Staff and the Commission and the Schedules of Company Witness Fred A. Steele

		_	Company	P	ublic Staff		Di	fference	
	Schedule 1 - Total Cost of Gas	\$	4,804,228	\$	4,641,053	[1]	\$	163,175	۲
	Schedule 4 - Other Cost of Gas	\$	13,800	\$	(149,768)		\$	163,568	₿
	Schedule 8 - Period End Deferred Gas Cost Account Balance	\$	262,677	\$	152,851	[2]	\$	109,826	C
۲	Reconciling Items - Total Cost of Gas:						_		
	Company Proposed Proration Adjustment Miscellaneous Charges - Net Cash Out						\$	104,724 58,459	
	Rounding						\$	(8) 163,175	
₿	Reconciling Items - Other Cost of Gas:								
	Company Proposed Proration Adjustment Retro Gas Pricing True-up Entry (booked by Public Staff as a Ga Miscellaneous Charges - Net Cash Out Rounding	s Supp	ly Cost, not a D	eferre	d Account		\$	104,724 390 58,459 (5)	
							\$		-
C	Reconciling Items - Ending Deferred Account Balance:								
	Company Proposed Proration Adjustment Interest Differential:						\$	104,724	
	Interest - Per Frontier Schedule 8 \$ 16,091 LESS: Interest per monthly deferred account filings with the Commission (10,982) Rounding						\$	5,109 (7) 109,826	<u>)</u>

Notes:

[1] - Does not include Additional Non Deferred Account Related Gas Costs (Comparison of Gas Cost Chart, Line 11)

[2] - Does not include Ms. Perry's recommended Proration Adjustment

Public Staff Panel Exhibit II Page 1 of 2

Frontier Natural Gas Company Docket No. G-40, Sub 145 Public Staff Recommended Correcting Entries To Deferred Gas Cost Account Balance (Debit) Credit

Correcting Journal Entries	Beginning	Public Staff		Gas Cost Collection
as of:	Balance	Adjustment	Interest	Adjustment w/ Interest
Feb-17	\$0	\$112,975	\$723	\$113,698
Mar-17	\$113,698	BESSEN WILLING CLASSIFICATION	\$728	\$114,426
Apr-17	\$114,426		\$732	\$115,158
May-17	\$115,158		\$737	\$115,895
Jun-17	\$115,895		\$742	\$116,637
Jul-17	\$116,637		\$746	\$117,383
Aug-17	\$117,383	(21,564)	\$613	\$96,432
Sep-17	\$96,432	1,102	\$624	\$98,159
		\$92,513	\$5,646	
	-	\$98,159		
Annual Interest Rate			7.680%	
Monthly Interest Rate			0.640%	

(5) Rounding \$92,513

Adjustment

Public Staff Panel Exhibit II

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Oct-16

[1] Per Company deferred accout true-up filed with the Commision.

[2] Revised proration - per Frontier supporting deferred account information filed each month - Revenue Detail, Invoices tab.

Frontier Natural Gas Gas Cost Collections - Public Staff Proration For the Review Period Ending September 30, 2017

Sep-17 Aug-17 Jul-17 Jun-17 May-17 Apr-17 Mar-17 **Deferred Acct Volumes:** Frontier Filed Dts [1] 77,424 53,612 39,031 45,861 55,472 60,961 125,756 **PS Calculated Dts** 77,149 39,030 [2] 53,611 45,861 55,471 60,960 125,756

106,271 152,108 149,841 82,371 64,382 106,271 152,109 149,840 82,371 64,382 Difference 275 1 1 0 1 1 0 0 (1) 1 0 0 279 dts **Deferred Account Collections:** \$259,115 Frontier Filed Collections 309,696 186,398 \$220,525 [1] \$313,417 \$344,430 \$710,521 \$700,582 \$532,378 \$524,444 \$288,299 \$225,337 **PS Calculated Collections** \$288,300 \$225,338 [2] \$308,594 207,962 220,527 259,114 313,416 344,426 \$710,519 \$587,607 \$532,378 \$524,442 Difference \$1,102 (\$21,564) (\$2) \$1 \$4 \$1 \$2 \$112,975 \$0 \$2 (\$2) (\$1) \$92,518 Total

Feb-17

Jan-17

Dec-16

Nov-16

Public Staff Panel Exhibit III

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Frontier Docket No. G-40, Sub 136 Calculation of Pre-Tax Rate-of-Return and Net-of-Tax Discount Rate

Item		Capital Structure	Cost Rate	Weighted Rate	Tax Factor	Pre-Tax ROR	Net-of-Tax ROR
L-T Debt		50.00%	4.23%	2.12%	1.000000	2.1150%	1.6207%
Equity		50.00%	9.75%	4.88%	0.766300	6.3617%	4.8750%
Total		100.00%		6.99%		8.476738%	6.495725%
							6.496%
	Co	mposite Income	Tax Factor:				
	а	State Taxable I	ncome		1.000000		
	b	State income ta	ixes	×-	0.030000		
	С	Federal Taxabl	e Income	[a - b]	0.970000		
	d	Federal income	taxes	[c x 21%]	0.203700		
	е	Net Income		[c - d]	0.766300		
		Assumptions: SIT rate	3.00%				
		FIT rate	21.00%				
		Composite	23.3700%				