

PUBLIC

INFORMATION SHEET

PRESIDING: Commissioner Brown-Bland, Presiding; and Commissioners Hughes and McKissick, Jr.

PLACE: Via Videoconference

DATE: Tuesday, August 10, 2021

TIME: 10:30 a.m. – 12:50 p.m.

DOCKET NOS.: G-5, Sub 635

COMPANY: Public Service Company of North Carolina, Inc.

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

VOLUME NUMBER:

APPEARANCES

(See attached)

WITNESSES

(See attached)

EXHIBITS

(See attached)

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REPORTED BY: Kim Mitchell  
TRANSCRIBED BY: Kim Mitchell  
DATE FILED: September 1, 2021

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1 PLACE: Via Videoconference  
2 DATE: Tuesday, August 10, 2021  
3 TIME: 10:30 a.m. - 12:50 p.m.  
4 DOCKET NO: G-5, Sub 635  
5 BEFORE: Commissioner ToNola D. Brown-Bland, Presiding  
6 Commissioner Jeffrey A. Hughes  
7 Commissioner Floyd B. McKissick, Jr.  
8  
9

10 IN THE MATTER OF:

11 Application of  
12 Public Service Company of North Carolina, Inc.,  
13 for Annual Review of Gas Costs Pursuant  
14 to N.C.G.S. § 62-133.4(c) and  
15 Commission Rule R1-17(k) (6)  
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NORTH CAROLINA UTILITIES COMMISSION

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NORTH CAROLINA UTILITIES COMMISSION

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**NORTH CAROLINA UTILITIES COMMISSION**  
**APPEARANCE SLIP**

**DATE:** 08/02/21 **DOCKET NO.:** G-5 Sub 635

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**APPEARANCE ON BEHALF OF:** Public Service Company of North Carolina, Inc.,  
d/b/a Dominion Energy North Carolina

**APPLICANT:** X **COMPLAINANT:** \_\_\_ **INTERVENOR:** \_\_\_

**PROTESTANT:** \_\_\_ **RESPONDENT:** \_\_\_ **DEFENDANT:** \_\_\_

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(Required for distribution of CONFIDENTIAL transcript)

**NORTH CAROLINA UTILITIES COMMISSION**  
**APPEARANCE SLIP**

DATE: 08/02/21 DOCKET NO.: G-5 Sub 635

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FIRM NAME: McGuireWoods LLP

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CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Public Service Company of North Carolina, Inc.,  
d/b/a Dominion Energy North Carolina

APPLICANT: X COMPLAINANT: \_\_\_ INTERVENOR: \_\_\_

PROTESTANT: \_\_\_ RESPONDENT: \_\_\_ DEFENDANT: \_\_\_

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SIGNATURE: /s/Mary Lynne Grigg

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# NORTH CAROLINA UTILITIES COMMISSION

## APPEARANCE SLIP

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CITY: 7\UdY`<]` STATE: B7 ZIP CODE: &+) %\*

APPEARANCE ON BEHALF OF: <Uk`F]j Yf`5ggYa V`m

APPLICANT: \_\_\_ COMPLAINANT: \_\_\_ INTERVENOR: \_L\_

PROTESTANT: \_\_\_ RESPONDENT: \_\_\_ DEFENDANT: \_\_\_

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SIGNATURE: #g# 8Uj ]X`@`BYU`

(Required for distribution of CONFIDENTIAL transcript)



**NORTH CAROLINA UTILITIES COMMISSION**  
**PUBLIC STAFF - APPEARANCE SLIP**

DATE August 10, 2021 DOCKET#: G-5, Sub 635

PUBLIC STAFF ATTORNEY Gina C. Holt

TO REQUEST A **CONFIDENTIAL** TRANSCRIPT, PLEASE PROVIDE YOUR  
EMAIL ADDRESS BELOW:

ACCOUNTING \_\_\_\_\_

\_\_\_\_\_

CONSUMER SERVICES \_\_\_\_\_

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\_\_\_\_\_

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TRANSPORTATION \_\_\_\_\_

WATER \_\_\_\_\_

\_\_\_\_\_

Non-confidential transcripts are located on the  
Commission's website. To view and/or print, please  
access <https://ncuc.net>.

COUNSEL/MEMBER(s) REQUESTING A **CONFIDENTIAL** TRANSCRIPT  
WHO HAS SIGNED A CONFIDENTIALITY AGREEMENT WILL NEED TO  
SIGN BELOW.

Gina C. Holt

s/Gina C. Holt

Signature of Public Staff Attorney

**DESIGN-DAY DEMAND REQUIREMENTS (IN DTS) AND AVAILABLE ASSETS (IN DTS)  
FOR WINTER SEASONS FROM 2020-21 THROUGH 2025-26**

		(1) 2020-21	(2) 2021-22	(3) 2022-23	(4) 2023-24	(5) 2024-25	(6) 2025-26
<b>Contracted Capacity*</b>							
Transco	FT	390,743	390,743	390,743	390,743	390,743	390,743
Eastern Gas**	FT	7,283	7,286	7,286	7,286	7,286	7,286
Subtotal		398,026	398,029	398,029	398,029	398,029	398,029
<b>Seasonal Capacity</b>							
Transco	Storage	33,218	33,218	33,218	33,218	33,218	33,218
Eastern Gas**	Storage	61,041	61,066	61,066	61,066	61,066	61,066
Columbia Gas**	Storage	35,102	35,116	35,116	35,116	35,116	35,116
East Tennessee/Saltville**	Storage	48,622	48,778	48,778	48,778	48,778	48,778
Subtotal		177,983	178,178	178,178	178,178	178,178	178,178
<b>Peaking Capacity</b>							
Transco	LGA	5,175	5,175	5,175	5,175	5,175	5,175
Pine Needle**	LNG	102,817	102,858	102,858	102,858	102,858	102,858
Cary Energy Center	LNG	100,000	100,000	100,000	100,000	100,000	100,000
Cove Point**	LNG	24,835	24,845	24,845	24,845	24,845	24,845
Short-Term Peaking Service	LNG	40,000	24,000	-	-	-	-
Subtotal		272,827	256,878	232,878	232,878	232,878	232,878
<b>Total</b>		848,836	833,085	809,085	809,085	809,085	809,085
<b>Design-Day Requirements</b>		840,638	860,815	879,494	898,580	918,079	938,001
<b>Surplus (Shortage)</b>		8,198	(27,730)	(70,410)	(89,495)	(108,994)	(128,916)
<b>Reserve Margin</b>		0.98%	(3.22%)	(8.01%)	(9.96%)	(11.87%)	(13.74%)

\* Does not include MVP capacity expected to be in service by 2022.

\*\* Adjusted to reflect changes in Transco fuel retainage.

**INFORMATION PURSUANT TO ORDER REQUIRING REPORTING  
ISSUED IN DOCKET NO. G-100, SUB 91**

1. **Please describe any changes in the Company's customer mix or customer market profiles that it forecasts for the next ten (10) years and explain how the changes will impact the Company's gas supply, transportation, and storage requirements.**

No significant changes are expected.

2. **Please identify the rate schedules and special contracts that the Company uses to determine its peak day demand requirements for planning purposes. Please explain the rationale and basis for each rate schedule or special contract included in the determination of peak day demand requirements.**

The Company's demand forecast methodology utilizes actual daily measured volumes to determine its peak-day demand requirements for planning purposes. The Company initially considers total daily throughput, which includes all rate schedules, and then deducts daily transportation volumes (Rate Schedules 175 and 180). Because volumes for interruptible sales (Rate Schedule 150) customers are within the statistical margin of error, this rate schedule is not deducted.

3. **Please provide the base load requirements estimated for the review period and forecasted for each of the next five (5) years.**

For the review period, PSNC's estimated winter base load requirements were approximately 83,000 dekatherms per day. PSNC's forecasted winter base load requirement includes an average annual increase of approximately 2.5% for the next five years.

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

Design day requirements are set forth on Jackson Direct Exhibit 1. The Company's demand forecast methodology utilizes actual daily measured volumes for the entire system and then deducts daily transportation volumes based on actual daily measurement data. Therefore, the demand for each rate schedule is not used to determine design-day demand requirements. The Company performs a regression analysis using 50 heating degree-days (HDDs) on a 60-degree Fahrenheit base to project design-day usage.

5. **Please explain how the Company determines which type of resource should be acquired or developed for meeting the Company's deliverability needs, and describe the factors evaluated in deciding whether the Company should acquire pipeline transportation capacity, acquire a storage service, or develop additional on-system storage deliverability.**

Resource acquisition depends on several factors. These primarily include: (1) whether the need is year-round, seasonal, or peaking in nature; (2) availability of the resource; (3) operational flexibility requirements; and (4) the relative costs of service.

6. **Please describe how the Company determines the amount of pipeline capacity that should be acquired for (a) the whole year, (b) the full winter season, and (c) less than the full winter season. Also, please describe the factors evaluated in determining the appropriate amount and mix of service period options.**

The Company maintains a level and mix that ensures its firm system requirements and operational flexibility requirements are satisfied. The Company plans for sufficient capacity to be available on a design day, while seeking to avoid underutilization of capacity. The Company continually monitors historical usage and expected requirements. Before acquiring additional capacity, the Company evaluates whether a year-round or seasonal service period is appropriate and will seek either to increase demand on an existing contract or to secure a new contract. The type of service acquired depends on availability, economics, and satisfaction of operational flexibility requirements.

7. **Please describe each new capacity and storage opportunity that the Company is contemplating entering into during the next five (5) year period.**

The Direct Testimony of Rose M. Jackson at pages 11 through 13 provides an update of the capacity opportunities that the Company contemplated.

8. **Please provide a computation of the reserve or excess capacity estimated for the review period and forecasted for each of the next five (5) years.**

The requested information is set forth on Jackson Direct Exhibit 1.

9. **Please describe any significant storage, transmission, and distribution upgrades required for the Company to fulfill its peak day requirements during the next five (5) years.**

See Jackson Direct Exhibit 2 Attachment which is confidential and therefore being filed under seal.

Jackson Direct Exhibit 2

- 10. In determining which type of resource should be required, what steps, if any, did the Company take during the review period to seek out service agreements from competitive suppliers pursuant to the provisions of G.S. 62-36B?**

See the response to Question 7 above.

**PROCEEDINGS BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION  
IN WHICH PSNC PARTICIPATED AS A PARTY FROM APRIL 2020 THROUGH MARCH 2021**

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
4/7/20	Pine Needle LNG Company, LLC	RP20-720-000	On March 31, 2020, Pine Needle made its annual fuel retention percentage and electric power rate filing.	Intervention.
4/7/20	Columbia Gas Transmission, LLC	RP20-751-000	On April 1, 2020, Columbia Gas made its semiannual filing to adjust the operational transaction rate adjustment surcharge for the upcoming summer season.	Intervention.
4/13/20	Transcontinental Gas Pipe Line Company, LLC	RP20-779-000	On April 10, 2020, Transco filed to revise the minimum bid periods in open seasons for available capacity.	Intervention.
4/15/20	Pine Needle LNG Company, LLC	RP20-780-000	On April 10, 2020, Pine Needle filed a petition to approve a “pre-settlement” agreement reached by Pine Needle, its customers, and the Commission for the purpose of fulfilling Pine Needle’s obligation to file a general Section 4 rate case as required by the stipulation and agreement approved in Docket No. RP17-204.	Intervention and comments supporting the settlement.
5/19/20	Transcontinental Gas Pipe Line Company, LLC	RP20-873-000	On May 15, 2020, Transco filed tariff records updating PSNC’s delivery point entitlements.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
6/3/20	Texas Gas Transmission, LLC	RP20-910-000	On May 29, 2020, Texas Gas filed a proposed interim adjustment of fuel retention percentages to be effective July 1, 2020.	Intervention.
6/3/20	Texas Gas Transmission, LLC	RP20-912-000	On May 29, 2020, Texas Gas filed proposed tariff changes to support its new gas management system currently under development.	Intervention.
6/16/20	Transcontinental Gas Pipe Line Company, LLC	RP20-948-000	On June 8, 2020, Transco filed to revise certain LNG rates in a limited Natural Gas Act Section 4 rate filing in accordance with the settlement agreement approved by the Commission in Docket No. RP18-1126.	Intervention.
7/8/20	Columbia Gas Transmission, LLC	RP20-995-000	On July 1, 2020, Columbia Gas filed to adjust its transportation cost rate adjustment rates.	Intervention.
7/8/20	Dominion Energy Cove Point LNG, LP	RP20-1007-000	On July 2, 2020, Cove Point filed its annual penalty revenue distribution report.	Intervention.
7/8/20	Dominion Energy Transmission, Inc.	RP20-1009-000	On July 2, 2020, Dominion Transmission filed its annual unauthorized overrun and penalty revenue distribution report.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
7/13/20	East Tennessee Natural Gas, LLC	RP20-980-000	On June 30, 2020, East Tennessee filed a general rate case under Section 4 of the Natural Gas Act to fulfill a requirement from the settlement of its last rate case.	Intervention and protest requesting that the proposed rates be suspended for the maximum period, that the proceeding be set for hearing, and that East Tennessee be required to provide all relevant statements and exhibits in native file format.
7/29/20	Transcontinental Gas Pipe Line Company, LLC	RP20-1029-000	On July 21, 2020, Transco filed a report of its flow-through to Rate Schedule GSS and Rate Schedule LSS customers of a refund received from Dominion Transmission.	Intervention.
8/12/20	Columbia Gas Transmission, LLC	RP20-1060-000	On July 31, 2020, Columbia Gas filed a general rate case under Section 4 of the Natural Gas Act.	Intervention and comments requesting that the proposed rates be suspended for the maximum statutory period and that the filing be subjected to a thorough investigation in an evidentiary hearing or other appropriate procedures.



<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
8/25/20	Transcontinental Gas Pipe Line Company, LLC	RP20-1111-000	On August 20, 2020, Transco filed to revise its tariff to allow for greater flexibility in allocating existing firm capacity that becomes available on its system.	Intervention.
9/2/20	Columbia Gas Transmission, LLC	CP20-512-000	On August 24, 2020, Columbia Gas filed a prior notice request for authorization to abandon two injection/withdrawal wells and associated pipelines and appurtenances, located in its Laurel Storage Field in Hocking County, Ohio.	Intervention.
9/2/20	Transcontinental Gas Pipe Line Company, LLC	CP20-514-000	On August 24, 2020, Transco filed a prior notice request for authorization to abandon an existing 6-inch supply lateral interconnecting with Transco's Mainline A, and appurtenant metering facilities, located in St. Landry Parish, Louisiana.	Intervention.
9/2/20	Transcontinental Gas Pipe Line Company, LLC	CP20-515-000	On August 25, 2020, Transco filed a prior notice request for authorization to abandon a 16-inch supply lateral from Eugene Island Block 57 to Ship Shoal Area Block 11, and appurtenant metering facilities, all in federal waters offshore Louisiana.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
9/2/20	Columbia Gas Transmission, LLC	CP20-516-000	On August 27, 2020, Columbia Gas filed a prior notice request for authorization to abandon two injection/withdrawal wells and associated pipelines and appurtenances, located in its Medina Storage Field in Medina County, Ohio.	Intervention.
9/23/20	Transcontinental Gas Pipe Line Company, LLC	RP19-1556-000	On September 16, 2020, Transco filed its annual cash-out report.	Intervention.
10/7/20	Dominion Energy Transmission, Inc.	RP20-1245-000	On September 30, 2020, Dominion Transmission made its annual electric power cost adjustment filing.	Intervention.
10/7/20	Dominion Energy Transmission, Inc.	RP20-1246-000	On September 30, 2020, Dominion Transmission made its annual transportation cost rate adjustment filing.	Intervention.
10/7/20	Texas Gas Transmission, LLC	RP21-15-000	On October 1, 2020, Texas Gas made its annual fuel retention percentage filing.	Intervention.
10/7/20	Saltville Gas Storage Company, LLC	RP21-17-000	On October 1, Saltville made its initial filing to determine fuel reimbursement percentages and to report no surcharges or refunds associated with the fuel reimbursement deferred account.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
10/13/20	Dominion Energy Cove Point LNG, LP	RP20-1241-000	On September 30, 2020, Cove Point filed proposed tariff records to establish a mechanism to track and flow through the costs incurred at the Pleasant Valley Interconnect with Transco as a result of Transco's new tariff mechanism, as accepted by the Commission subject to hearing, which would assess a surcharge or refund rate on measured quantities under Transco's operational balancing agreements subject to cash-out.	Intervention.
10/13/20	Transcontinental Gas Pipe Line Company, LLC	RP21-24-000	On October 1, 2020, Transco made its initial filing to impose a surcharge to recover from customers amounts held in a cash-out deferred account under a tariff provision subject to ongoing proceedings involving Transco's cash-out mechanism.	Intervention and Joint Protest with other shippers in Transco Zones 4 and 5 requesting that Transco's filing be suspended for the maximum suspension period and that nothing in the filing prejudice issues pending in proceedings concerning Transco's cash-out mechanism and cash-out pricing.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
10/13/20	Transcontinental Gas Pipe Line Company, LLC	RP21-34-000	On October 1, 2020, Transco requested a 90-day waiver of a FERC regulation that requires a pipeline to enter into operational balancing agreements at all points of interconnection between its system and the system of another interstate or intrastate pipeline. The purpose of the request was to allow additional time for Transco to renegotiate agreements terminated by counterparties to avoid any surcharge imposed through ongoing proceedings involving Transco's cash-out mechanism.	Intervention and Joint Comments with other shippers in Transco Zones 4 and 5 filed to ensure that nothing in Transco's request would prejudice issues pending in proceedings concerning Transco's cash-out mechanism and cash-out pricing.
10/28/20	Transcontinental Gas Pipe Line Company, LLC	RP21-84-000	On October 22, 2020, Transco filed its annual penalty sharing report.	Intervention.
11/4/20	Columbia Gas Transmission, LLC	RP21-142-000	On October 30, 2020, Columbia Gas made its semiannual filing to adjust the operational transaction rate adjustment surcharge for the upcoming winter season.	Intervention.
11/4/20	Dominion Energy Transmission, Inc.	RP21-144-000	On October 30, 2020, Dominion Transmission filed revised tariff records to add constituent limits for renewable natural gas received by DETI and to add relevant definitions.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
11/10/20	Transcontinental Gas Pipe Line Company, LLC	RP21-185-000	On November 2, 2020, Transco filed revised tariff records to track rate changes attributable to storage services purchased from Dominion Transmission and from National Fuel.	Intervention.
11/18/20	Texas Gas Transmission, LLC	RP21-214-000	On November 13, 2020, Texas Gas filed revised tariff records related to a new gas management system currently under development.	Intervention.
12/21/20	Mountain Valley Pipeline, LLC	CP21-12-000	On November 10, 2020, MVP filed an application requesting amendment of the certificate of public convenience and necessity for its mainline project to effectuate its remaining waterbody crossings by using conventional bores.	Intervention and comments supporting the application because it will expedite completion of the mainline project as well as MVP's Southgate project, which are necessary to meet growing demand for natural gas to serve the Company's customers.
1/5/21	Columbia Gas Transmission, LLC	RP21-337-000	On December 28, 2020, Columbia Gas filed its annual penalty revenue crediting report.	Intervention.
1/8/21	Columbia Gas Transmission, LLC	RP21-351-000	On December 31, 2020, Columbia Gas filed its annual capital cost recovery mechanism rates.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
1/12/21	Cove Point LNG, LP	RP21-353-000	On December 31, 2020, Cove Point filed revised tariff records to establish, subject to refund and the outcome of certain Transco proceedings revising its cash-out mechanism, the initial Pleasant Valley Interconnect pass-through rate.	Intervention.
1/25/21	Transcontinental Gas Pipe Line Company, LLC	RP21-392-000	On January 19, 2021, Transco filed tariff records updating the Company's delivery point entitlements.	Intervention.
3/9/21	Columbia Gas Transmission, LLC	RP21-561-000	On March 1, 2021, Columbia Gas made its annual electric power cost adjustment filing.	Intervention.
3/9/21	Columbia Gas Transmission, LLC	RP21-565-000	On March 1, 2021, Columbia Gas made its annual transportation cost rate adjustment filing.	Intervention.
3/9/21	Columbia Gas Transmission, LLC	RP21-566-000	On March 1, 2021, Columbia Gas filed its annual report of operational transactions for the twelve-month period ending December 31, 2020.	Intervention.
3/9/21	Transcontinental Gas Pipe Line Company, LLC	RP21-569-000	On March 1, 2021, Transco made its annual fuel tracker filing to update fuel retention percentages.	Intervention.
3/9/21	Transcontinental Gas Pipe Line Company, LLC	RP21-579-000	On March 1, 2021, Transco made its annual filing to update transmission electric power rates.	Intervention.

<b>Date</b>	<b>Pipeline</b>	<b>Docket No.</b>	<b>Docket Description</b>	<b>Company Position</b>
3/9/21	Columbia Gas Transmission, LLC	RP21-582-000	On March 1, 2021, Columbia Gas made its annual fuel retainage adjustment filing.	Intervention.
3/16/21	Columbia Gas Transmission, LLC	CP21-69-000	On March 9, 2021, Columbia Gas requested approval to use certain project-specific alternative environmental requirements for the upcoming Line VB Pipe Replacement and VB Loop Pipe Replacement Projects to be undertaken under Columbia's automatic blanket certificate authority.	Intervention.

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Annual Review of Gas Costs**  
**For the Twelve Months Ended March 31, 2021**  
**Filing Requirements**

---

Creel Direct Exhibit 1

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Sch. 1	Summary of Cost of Gas Expense
Sch. 2	Summary of Demand and Storage Costs
Sch. 3	Summary of Commodity Gas Costs
Sch. 4	Summary of Other Cost of Gas Charges (Credits)
Sch. 5	Summary of Demand and Storage Rate Changes
Sch. 6	Summary of Demand and Storage Capacity Level Changes
Sch. 7	Summary of Demand and Storage Costs Incurred Versus Collected
Sch. 8	Summary of Deferred Account Activity-Sales Customers Only Account
Sch. 9	Summary of Deferred Account Activity- All Customers Account
Sch. 10	Summary of Gas Supply

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Creel Direct Exhibit 2

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Hedging Deferred Account Activity



Public Service Company of North Carolina, Inc.  
Docket No. G-5, Sub 635  
Summary of Cost of Gas Expense  
For the Twelve Months Ended March 31, 2021  
Schedule 1

	Gas Flow Month	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
	Reporting Month	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
	Item													
1	Demand & Storage Costs Expensed (Sch 2)	\$9,882,830	\$8,443,218	\$8,639,383	\$7,633,959	\$7,815,729	\$7,846,550	\$7,649,110	\$7,971,329	\$9,499,794	\$9,907,499	\$10,078,304	\$9,713,502	\$105,081,205
2	Commodity Costs Expensed (Sch 3)	\$9,345,906	\$4,820,631	\$4,135,598	\$2,528,908	\$2,045,225	\$2,613,699	\$3,574,812	\$4,760,196	\$12,017,730	\$25,069,335	\$27,566,348	\$30,359,964	\$128,838,351
3	Other Gas Costs Expensed (Sch 4)	(\$11,777,909)	(\$4,570,323)	(\$6,223,031)	(\$6,729,654)	(\$5,146,555)	(\$3,429,439)	(\$11,142,158)	\$2,988,846	\$25,830,350	\$17,035,371	\$10,942,049	(\$21,012,476)	(\$13,234,928)
4	Total Cost of Gas Expensed	\$7,450,827	\$8,693,526	\$6,551,950	\$3,433,213	\$4,714,398	\$7,030,809	\$81,764	\$15,720,371	\$47,347,874	\$52,012,204	\$48,586,700	\$19,060,990	\$220,684,629

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Demand and Storage Charges**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 2**

	<b>Gas Flow Month</b>	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
	<b>Reporting Month</b>	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
	<b>DEMAND &amp; STORAGE COSTS:</b>													
1	Transco FT Reservation - 1002264	39,226	37,941	39,206	30,659	31,681	31,681	30,659	31,681	30,659	31,681	31,681	28,615	395,373
2	Transco FT Reservation - 1003703	2,844,040	2,750,905	2,842,602	2,222,921	2,297,018	2,297,018	2,222,921	2,297,018	2,222,921	2,297,018	2,297,018	2,074,726	28,666,129
3	Transco FT Reservation -1004996										110,459	110,459	99,770	320,688
4	Transco FT Reservation - 1006505	29,301	28,343	29,288	22,952	23,717	23,717	22,952	23,717	22,952	23,717	23,717	21,422	295,798
5	Transco Southern Expansion - 1004190	521,484								405,395	465,453	465,453	420,409	2,278,195
6	Transco FT Momentum - 9103562	197,011	190,494	196,844	163,650	169,105	169,105	163,650	169,105	163,650	169,105	169,105	152,740	2,073,564
7	Transco FT Reservation - 9130053	201,469	194,878	201,374	157,814	163,074	163,074	157,814	163,074	157,814	163,074	163,074	147,293	2,033,825
8	Transco FT Reservation - 1012381/1012387	26,213	25,365	26,210	19,881	20,544	20,544	19,881	20,544	19,881	20,544	20,544	18,556	258,708
9	Transco Southeast Expansion - 1012028	657,464	635,975	657,174	511,104	528,141	528,141	511,104	528,141	511,104	528,141	528,141	477,030	6,601,660
10	Transco Southeast Trail Project - 9223476									1,075,999	1,111,865	1,201,151	1,084,910	4,473,925
11	Transco FT Reservation - 9178381	1,721,678	1,665,450	1,720,965	1,665,450	1,720,965	1,720,965	1,665,450	1,720,965	1,665,450	1,720,965	1,720,965	1,554,420	20,263,688
12	Dominion Transmission Reservation	322,934	199,283	199,283	199,283	199,283	199,283	199,283	199,283	323,415	323,415	323,415	323,415	3,011,573
13	Texas Eastern FT Reservation	46,944	46,944	46,944	46,944	46,944	46,944	46,944	46,944	46,944	46,944	46,944	46,944	563,328
14	Texas Gas Transmission FT Reservation	46,447	44,949	46,447	44,949	46,447	46,447	44,949	46,447	44,949	46,447	46,447	41,952	546,880
15	East Tennessee Patriot Expansion (Enbridge)	464,500	464,500	464,500	464,500	464,500	464,500	464,500	464,500	464,500	464,500	545,150	545,150	5,735,300
16	Columbia Gas Transmission FT Reservation	246,285	123,687	122,803	122,803	122,803	121,743	121,743	243,493	243,493	243,812	243,812	460,042	2,416,520
17	Cove Point LNG FTS Reservation	10,970	10,970	10,970	10,970	10,970	16,203	16,203	16,203	14,078	14,078	14,078	14,078	159,768
18	Cardinal	474,195	458,424	473,705	458,424	473,705	473,705	458,424	473,705	458,424	473,705	473,705	427,862	5,577,982
19	City of Monroe	2,217	3,230	2,753	4,273	3,769	3,448	4,100	6,477	4,499	2,608	3,477	2,221	43,072
20	Piedmont Redelivery Agreement	760	760	760	760	760	760	760	760	760	760	760	760	9,120
21	Firm Backhaul Capacity on Transco	334,800								144,000	148,800	148,800	134,400	910,800
22	GSS Demand and Capacity	177,692	171,950	177,682	139,854	144,516	144,516	139,854	144,516	139,884	144,547	144,547	130,558	1,800,118
23	WSS Demand and Capacity	60,404	58,455	60,404	55,040	56,875	56,875	55,040	56,875	55,040	56,875	56,875	51,371	680,128
24	LGA Demand and Capacity	16,676	16,139	16,676	47,267	32,496	32,496	31,448	32,496	31,448	32,496	32,496	29,351	351,483
25	ESS Demand and Capacity	105,675	102,266	105,675	90,545	93,563	93,563	90,545	93,563	90,545	93,563	93,563	84,508	1,137,570
26	Eminence Demand and Capacity	107,428	103,963	107,428	92,050	95,118	95,118	92,050	95,118	92,050	95,118	95,118	85,913	1,156,471
27	Columbia Demand and Capacity	144,626	144,626	144,626	144,626	144,626	144,626	144,626	144,626	144,626	144,626	144,626	345,506	1,936,393
28	Cove Point LNG FPS Reservation	74,415	74,415	74,415	74,415	74,415	101,385	101,385	101,385	82,378	82,378	82,378	82,378	1,005,740
29	DTI-GSS Demand and Capacity	173,091	173,091	173,091	173,091	173,091	173,091	173,091	173,091	173,203	173,203	173,203	173,203	2,077,537
30	Pine Needle	291,942	282,524	263,867	236,042	243,910	243,910	236,042	243,910	236,042	243,910	243,910	220,306	2,986,316
31	Saltville Demand and Capacity	286,692	286,692	286,692	286,692	286,692	286,692	286,692	286,692	286,692	286,692	286,692	286,692	3,440,304
32	EDF Trading FT Reservation	256,250	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	1,873,250
33	<b>TOTAL DEMAND &amp; STORAGE COSTS EXPENSED</b>	<b>\$9,882,830</b>	<b>\$8,443,218</b>	<b>\$8,639,383</b>	<b>\$7,633,959</b>	<b>\$7,815,729</b>	<b>\$7,846,550</b>	<b>\$7,649,110</b>	<b>\$7,971,329</b>	<b>\$9,499,794</b>	<b>\$9,907,499</b>	<b>\$10,078,304</b>	<b>\$9,713,502</b>	<b>\$105,081,205</b>

Public Service Company of North Carolina, Inc.  
Docket No. G-5, Sub 635  
Summary of Commodity Gas Cost  
For the Twelve Months Ended March 31, 2021  
Schedule 3

Gas Flow Month	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
Reporting Month	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
<b>COMMODITY COSTS INCURRED</b>													
Contract # 16	0	0	33,300	31,650	0	0	0	0	0	0	0	0	64,950
Contract # 75	0	0	33,300	0	0	0	0	0	0	0	0	0	33,300
Contract # 118	454,150	0	0	0	0	0	0	0	0	0	0	0	454,150
Contract # 64	0	0	0	82,305	8,913	0	328,375	781,850	179,929	581,181	347,343	207,375	2,517,269
Contract # 114	0	0	36,200	0	0	0	16,500	0	78,500	36,750	0	0	167,950
Contract # 46	0	538,469	664,738	556,880	542,377	598,853	490,325	431,443	1,586,654	1,606,151	1,832,819	1,764,818	10,613,526
Contract # 74	0	31,650	41,488	144,038	25,725	0	180,925	80,755	924,400	2,140,810	2,765,103	1,573,677	7,908,569
Contract # 1	2,206,583	1,947,042	2,072,601	1,882,122	1,556,611	2,194,015	2,092,946	1,778,943	2,078,179	3,515,860	3,881,679	4,481,890	29,688,470
Contract # 111	470,156	33,000	57,510	16,905	23,140	0	1,103,875	309,645	432,675	1,500,925	1,724,468	2,096,516	7,768,814
Contract # 86	0	0	0	0	0	0	0	0	879,750	881,175	846,908	767,900	3,375,733
Contract # 125	0	474,750	540,175	498,750	453,375	574,275	759,750	633,175	879,750	881,172	757,175	767,247	7,219,594
Contract # 34	1,014,913	504,700	321,783	89,523	64,690	21,825	68,151	1,199,040	605,909	1,057,090	1,564,662	1,588,788	8,101,072
Contract # T26	79	96	62	35	38	27	70	136	396	318	567	476	2,300
Contract # 110	13,399	0	0	0	0	0	0	0	0	0	0	0	13,399
Contract # 123	140,995	406,953	1,257,108	504,395	25,875	0	274,017	1,637,438	0	1,810,275	2,225,325	444,300	8,726,680
Contract # 49	530,415	271,165	233,753	50,618	0	0	17,500	128,400	697,350	2,815,638	2,508,800	3,770,025	11,023,662
Contract # 9	166,075	792,745	201,338	137,270	8,913	0	182,837	361,313	106,375	1,732,698	1,312,538	1,031,290	6,033,390
Contract # 54	461,675	0	14,513	0	0	0	0	0	2,036,875	3,974,501	4,051,001	5,972,250	16,510,814
Transco Cash Out	244	0	0	0	0	0	0	0	0	0	0	0	244
Monroe Cash Out	0	0	0	0	0	0	0	0	0	0	0	0	0
Transportation Pooling Cash Out	(131,158)	(39,103)	(55,783)	(54,137)	(70,078)	(62,279)	27,882	(48,115)	(59,082)	58,857	(197,187)	12,526	(617,659)
Miscellaneous Charges (a)	0	0	0	0	0	0	0	9,695	0	0	0	0	9,695
Secondary Market Transactions:													
Contract # 46	0	0	0	0	0	0	(15,996)	(346,800)	(58,650)	(28,425)	(561,775)	(734,584)	(1,746,230)
Contract # 1	(89,625)	0	0	0	0	0	0	0	0	0	0	0	(89,625)
Contract # 49	0	0	0	0	0	0	0	0	0	0	0	0	0
Bundled Sales	0	0	0	0	0	0	0	0	0	(715,941)	0	0	(715,941)
Facilities Damages	(7,067)	(705)	(1,130)	(6,287)	(14,538)	(10,000)	(6,639)	(7,115)	(4,336)	(22,380)	0	(9,847)	(90,045)
Reservation Fees	176,611	65,043	67,211	65,043	67,211	67,211	65,043	67,211	200,256	206,932	206,932	186,906	1,441,609
Pipeline Transportation Charges	140,375	112,314	96,378	72,980	55,738	60,750	76,835	101,572	141,670	267,322	329,336	296,561	1,751,831
Withdrawal/Injection Fees	64,039	148,388	43,700	33,958	28,965	35,478	39,550	135,631	39,484	77,021	84,872	125,498	856,585
<b>TOTAL COMMODITY COSTS INCURRED</b>	<b>5,611,857</b>	<b>5,286,507</b>	<b>5,658,242</b>	<b>4,106,046</b>	<b>2,776,953</b>	<b>3,480,153</b>	<b>5,701,945</b>	<b>7,254,215</b>	<b>10,746,084</b>	<b>22,377,929</b>	<b>23,680,564</b>	<b>24,343,612</b>	<b>121,024,106</b>

Public Service Company of North Carolina, Inc.  
Docket No. G-5, Sub 635  
Summary of Commodity Gas Cost  
For the Twelve Months Ended March 31, 2021  
Schedule 3

Gas Flow Month	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
Reporting Month	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
<b>STORAGE INJECTIONS</b>													
Columbia Storage	0	(427,963)	(473,032)	(429,428)	(377,926)	(458,842)	(554,149)	(432,696)	0	0	0	0	(3,154,036)
Cove Point LNG	0	0	0	0	0	0	0	0	0	0	0	0	0
DTI GSS	0	(419,547)	(463,729)	(420,983)	(370,493)	(449,818)	(543,251)	(535,473)	0	0	0	0	(3,203,295)
Transco Eminence	(111,324)	(21,589)	(37,954)	0	(7,894)	(29,081)	(23,150)	(94,901)	(135,463)	(175,584)	(217,059)	(287,890)	(1,141,888)
Transco ESS	(102,302)	(14,899)	(58,624)	0	0	(31,702)	(34,164)	(91,201)	(68,207)	(197,805)	(208,481)	(283,155)	(1,090,541)
Transco GSS	(208,062)	(71,572)	(322,669)	(298,082)	(79,421)	(87,352)	(428,603)	(406,518)	(61,579)	(134,904)	(63,238)	(216,516)	(2,378,516)
Transco LGA	0	0	0	0	0	0	0	0	0	0	0	0	0
LNG	(11,833)	(247,989)	(11,516)	(12,894)	(13,654)	(14,126)	(14,106)	(248,780)	(12,441)	(14,636)	(12,496)	(18,996)	(633,468)
Pine Needle	(81,012)	(15,775)	(145,857)	(210,302)	0	(91,547)	0	0	(25,559)	(13,287)	(13,179)	(17,902)	(614,420)
Saltville	(23,600)	0	0	0	0	0	(40,822)	(118,783)	(115,928)	(394,709)	(402,803)	(560,043)	(1,656,689)
Transco WSS	(39,828)	(19,746)	(239,176)	(290,408)	0	0	(583,691)	(619,648)	(15,361)	0	(132,677)	(133,042)	(2,073,577)
<b>TOTAL STORAGE INJECTIONS</b>	<b>(577,961)</b>	<b>(1,239,080)</b>	<b>(1,752,557)</b>	<b>(1,662,098)</b>	<b>(849,388)</b>	<b>(1,162,468)</b>	<b>(2,221,937)</b>	<b>(2,548,001)</b>	<b>(434,537)</b>	<b>(930,925)</b>	<b>(1,049,933)</b>	<b>(1,517,545)</b>	<b>(15,946,430)</b>
<b>STORAGE WITHDRAWALS</b>													
Columbia Storage	1,489,797	0	0	0	0	0	0	0	362,432	658,790	1,114,112	933,188	4,558,319
Cove Point LNG	0	0	0	0	0	0	0	0	0	0	0	168,500	168,500
DTI GSS	1,696,399	0	0	0	0	0	0	0	271,041	722,566	1,177,172	1,251,419	5,118,596
Transco Eminence	128,831	76,907	32,253	0	13,234	81,792	0	0	134,660	53,255	288,891	374,221	1,184,044
Transco ESS	126,973	76,511	32,253	0	13,163	86,425	0	0	110,347	39,845	218,836	427,687	1,132,038
Transco GSS	215,274	285,294	31,238	0	970	41,995	15,618	22,405	311,609	562,849	594,703	1,036,412	3,118,366
Transco LGA	0	0	0	0	0	0	0	0	0	0	0	0	0
LNG	114,318	5,348	96,242	84,960	90,294	85,802	79,186	29,322	85,656	90,000	95,724	703,806	1,560,658
Pine Needle	53,039	90,549	0	0	0	0	0	0	9,749	189,788	176,666	515,383	1,035,173
Saltville	0	0	0	0	0	0	0	0	0	749,043	400,000	1,209,600	2,358,643
Transco WSS	487,378	238,595	37,929	0	0	0	0	2,256	420,690	556,196	869,613	913,681	3,526,337
<b>TOTAL STORAGE WITHDRAWALS</b>	<b>4,312,010</b>	<b>773,204</b>	<b>229,914</b>	<b>84,960</b>	<b>117,660</b>	<b>296,013</b>	<b>94,804</b>	<b>53,982</b>	<b>1,706,184</b>	<b>3,622,331</b>	<b>4,935,716</b>	<b>7,533,897</b>	<b>23,760,675</b>
<b>TOTAL COMMODITY COSTS EXPENSED</b>	<b>\$9,345,906</b>	<b>\$4,820,631</b>	<b>\$4,135,598</b>	<b>\$2,528,908</b>	<b>\$2,045,225</b>	<b>\$2,613,699</b>	<b>\$3,574,812</b>	<b>\$4,760,196</b>	<b>\$12,017,730</b>	<b>\$25,069,335</b>	<b>\$27,566,348</b>	<b>\$30,359,964</b>	<b>\$128,838,351</b>

(a) W Va &amp; Mississippi property taxes

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Other Cost of Gas Charges (Credits)**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 4**

	<b>Gas Flow Month</b>	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
	<b>Reporting Month</b>	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
	<b>Item</b>													
1	Unbilled Deliveries													
	Deferred Account Activity:													
2	Sales Customers Only	937,403	811,879	249,318	146,271	266,550	(133,926)	528,729	(1,171,816)	(842,222)	(525,643)	(5,915,226)	(878,720)	(6,527,405)
3	All-Customers	(4,451,847)	(5,780,729)	(5,383,240)	(6,048,619)	(5,838,089)	(5,164,553)	(5,135,001)	(2,173,279)	3,636,129	5,136,599	3,900,547	(3,964,628)	(31,266,710)
4	Miscellaneous charges (a)	(1,936,718)	1,481,865	1,051,881	(738,793)	(81,568)	907,087	(6,461,957)	(3,552,229)	9,279,024	9,367,171	10,181,215	(1,800,455)	17,696,524
	Demand and Storage Costs:													
5	Reverse prior month estimate	(9,882,830)	(8,442,504)	(8,639,020)	(7,617,982)	(7,814,331)	(7,846,153)	(7,648,641)	(7,967,592)	(9,354,105)	(9,907,433)	(10,078,252)	(9,698,697)	(104,897,541)
6	Current month estimate	8,442,504	8,639,020	7,617,982	7,814,331	7,846,153	7,648,641	7,967,592	9,354,105	9,907,433	10,078,252	9,698,697	11,347,395	106,362,107
	Commodity Costs:													
7	Reverse prior month estimate	(9,679,825)	(4,793,405)	(3,513,552)	(2,393,599)	(2,108,737)	(2,583,467)	(3,742,932)	(3,350,052)	(11,849,709)	(25,053,800)	(27,940,225)	(31,095,294)	(128,104,598)
8	Current month estimate	4,793,405	3,513,552	2,393,599	2,108,737	2,583,467	3,742,932	3,350,052	11,849,709	25,053,800	27,940,225	31,095,294	15,077,923	133,502,696
9	<b>TOTAL OTHER COST OF GAS</b>	<b>(\$11,777,909)</b>	<b>(\$4,570,323)</b>	<b>(\$6,223,031)</b>	<b>(\$6,729,654)</b>	<b>(\$5,146,555)</b>	<b>(\$3,429,439)</b>	<b>(\$11,142,158)</b>	<b>\$2,988,846</b>	<b>\$25,830,350</b>	<b>\$17,035,371</b>	<b>\$10,942,049</b>	<b>(\$21,012,476)</b>	<b>(\$13,234,928)</b>

## (a) Miscellaneous charges:

IMT Deferral	(421,044)	(194,766)	(320,609)	(556,125)	(474,954)	(344,970)	(1,133,990)	(289,305)	1,833,078	1,994,453	1,937,094	4,863	2,033,724
IMT Tax Adjustment													0
CUT Deferral	(2,410,166)	1,055,981	1,000,761	(402,989)	107,390	837,442	(6,156,057)	(5,940,088)	1,757,916	900,942	2,498,939	(4,728,680)	(11,478,607)
CUT Increment/(Decrement)	914,929	631,891	383,052	234,680	287,511	418,988	853,026	2,723,672	5,776,999	6,554,827	5,815,466	2,973,727	27,568,767
High Efficiency Discount Rate	(23,183)	(10,816)	(6,138)	(6,079)	(6,109)	(7,735)	(24,459)	(49,287)	(70,925)	(83,051)	(70,285)	(50,365)	(408,430)
Gas Loss-Facilities Damages	2,745	(425)	(5,185)	(8,280)	4,595	3,361	(476)	2,779	(18,044)	0	0	0	(18,930)
	<b>(\$1,936,718)</b>	<b>\$1,481,865</b>	<b>\$1,051,881</b>	<b>(\$738,793)</b>	<b>(\$81,568)</b>	<b>\$907,087</b>	<b>(\$6,461,957)</b>	<b>(\$3,552,229)</b>	<b>\$9,279,024</b>	<b>\$9,367,171</b>	<b>\$10,181,215</b>	<b>(\$1,800,455)</b>	<b>\$17,696,524</b>

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Demand and Storage Rate Changes**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 5**

Effective Date of Change	FERC Docket Number(s)	Description of Service	New Rate	Old Rate	Increase / (Decrease)	North Carolina Utilities Commission Effective Date	Docket Number	Order Date
04/01/20	RP20-622-000	Columbia Gas Transmission SST Demand Chg	\$7.00100	\$6.97000	\$0.03100			
05/01/20	RP20-751-000	Columbia Gas Transmission SST Demand Chg	\$6.95100	\$7.00100	(\$0.05000)			
08/01/20	RP20-995-000	Columbia Gas Transmission SST Demand Chg	\$6.89100	\$6.95100	(\$0.06000)			
12/01/20	RP21-142-000	Columbia Gas Transmission SST Demand Chg	\$6.90000	\$6.89100	\$0.00900			
02/01/20	RP20-1060-002	Columbia Gas Transmission SST Demand Chg	\$12.60300	\$6.90000	\$5.70300			
02/01/20	RP20-1060-000	Columbia Gas Transmission FSS - Reservation Charge	\$3.73000	\$1.50100	\$2.22900			
01/01/21	RP20-980-003	East Tennessee Natural Gas FT-A Patriot	\$10.90300	\$9.29000	\$1.61300			
05/01/20	RP20-720-000	Pine Needle LNG-1 Demand Charge	\$0.08224	\$0.09099	(\$0.00875)			
06/01/20	RP20-780-001	Pine Needle LNG-1 Demand Charge	\$0.07602	\$0.08224	(\$0.00622)			
04/01/20	RP20-575-000	Transco FT Reservation Charge - Zone 1 to Zone 5	\$0.59493	\$0.59523	(\$0.00030)			
04/01/20		Transco FT Reservation Charge - Zone 2 to Zone 5	\$0.58095	\$0.58125	(\$0.00030)			
04/01/20		Transco FT Reservation Charge - Zone 3 to Zone 5	\$0.53834	\$0.53861	(\$0.00027)			
04/01/20		Transco FT Reservation Charge - Zone 4 to Zone 5	\$0.47503	\$0.47524	(\$0.00021)			
04/01/20		Transco FT Reservation Charge - Zone 2 to Zone 6	\$0.67526	\$0.67558	(\$0.00032)			
04/01/20		Transco FT Reservation Charge - Zone 3 to Zone 6	\$0.63265	\$0.63294	(\$0.00029)			
04/01/20		Transco FT Reservation Charge - Zone 6 to Zone 6	\$0.16338	\$0.16340	(\$0.00002)			
04/01/20		Transco FT - Zone 1 to Zone 5 Former PS Rate Schedule	\$1.07882	\$1.07935	(\$0.00053)			
04/01/20		Transco FT - Zone 2 to Zone 5 Former PS Rate Schedule	\$1.05386	\$1.05439	(\$0.00053)			
04/01/20		Transco FT - Zone 3 to Zone 5 Former PS Rate Schedule	\$0.97778	\$0.97826	(\$0.00048)			
04/01/20		Transco FT - Zone 3 to Zone 5 Electric Power Unit Rate	\$0.00478	\$0.00505	(\$0.00027)			
04/01/20		Transco FT - Zone 4 to Zone 6 Electric Power Unit Rate	\$0.00515	\$0.00538	(\$0.00023)			
04/01/20	RP18-01126-004	Transco FT - Zone 3 to Zone 5 Momentum Expansion	\$0.31749	\$0.31776	(\$0.00027)			
04/01/20		Transco GSS Demand	\$0.12999	\$0.13000	(\$0.00001)			
06/01/20		Transco FT Reservation Charge - Zone 1 to Zone 5	\$0.48308	\$0.59493	(\$0.11185)			
06/01/20		Transco FT Reservation Charge - Zone 2 to Zone 5	\$0.46959	\$0.58095	(\$0.11136)			
06/01/20		Transco FT Reservation Charge - Zone 3 to Zone 5	\$0.43427	\$0.53834	(\$0.10407)			
06/01/20		Transco FT Reservation Charge - Zone 4 to Zone 5	\$0.38176	\$0.47503	(\$0.09327)			
06/01/20		Transco FT Reservation Charge - Zone 2 to Zone 6	\$0.54685	\$0.67526	(\$0.12841)			
06/01/20		Transco FT Reservation Charge - Zone 3 to Zone 6	\$0.51153	\$0.63265	(\$0.12112)			
06/01/20		Transco FT Reservation Charge - Zone 6 to Zone 6	\$0.12806	\$0.16338	(\$0.03532)			
06/01/20		Transco FT - Zone 1 to Zone 5 Former PS Rate Schedule	\$0.87626	\$1.07882	(\$0.20256)			
06/01/20		Transco FT - Zone 2 to Zone 5 Former PS Rate Schedule	\$0.85217	\$1.05386	(\$0.20169)			
06/01/20		Transco FT - Zone 3 to Zone 5 Former PS Rate Schedule	\$0.78911	\$0.97778	(\$0.18867)			
06/01/20	RP20-948-000	Transco FT - Zone 3 to Zone 5 Momentum Expansion	\$0.27275	\$0.31749	(\$0.04474)			
06/01/20		Transco GSS Demand	\$0.10552	\$0.12999	(\$0.02447)			
06/01/20		Transco WSS Demand	\$0.03102	\$0.03299	(\$0.00197)			
06/01/20		Transco ESS Demand	\$0.02500	\$0.02979	(\$0.00479)			
06/01/20	RP20-948-000	Transco LNG Demand	\$0.10316	\$0.05295	\$0.05021			
11/01/20	RP21-185-000	Transco GSS Demand	\$0.10555	\$0.10552	\$0.00003			
11/01/20	RP20-1160-001	Transco FT - Zone 5 to Zone 3 Southeastern Trail Project	\$0.00478	\$0.00000	\$0.00478			
		Cardinal Pipeline Zone 1B Reservation Charge	\$0.03930	\$0.03937	(\$0.00007)	04/01/20	G-39, Sub 44	03/26/20
		Cardinal Pipeline Zone 2 Reservation Charge	\$0.08100	\$0.08107	(\$0.00007)			
08/01/20	RP20-00467-000	Dominion Cove Point LNG - FTS Reservation Charge	\$0.64810	\$0.43880	\$0.20930			
08/01/20		Dominion Cove Point LNG - FPS -1 Reservation Charge	\$4.05540	\$2.97660	\$1.07880			
12/03/20	RP21-00296-000	Dominion Cove Point LNG - FTS Reservation Charge	\$0.56310	\$0.64810	(\$0.08500)			
12/03/20		Dominion Cove Point LNG - FPS -1 Reservation Charge	\$3.29510	\$4.05540	(\$0.76030)			
12/03/20	RP21-00294-000	Dominion FTNN/FTNN-GSS Reservation Charge	\$4.17410	\$4.16770	\$0.00640			
12/03/20		Dominion GSS Demand	\$1.87160	\$1.86980	\$0.00180			

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Demand and Storage Capacity Level Changes**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 6**

Effective Date of Change	Description of Service	Increase(Decrease)			North Carolina Utilities Commission Action		
		New Daily Demand Level	Previous Daily Demand Level	Daily Demand Level	Effective Date	Docket Number	Order Date
11/01/20	Transco Firm Transportation Zone 5 to Zone 5	10,000	0	10,000		N/A	
11/01/20	Transco Firm Transportation Zone 5 to Zone 5	10,000	0	10,000		N/A	
04/01/20	Transco Firm Transportation Zone 5 to Zone 5	20,000	0	20,000		N/A	
03/31/20	Transco Firm Transportation Zone 5 to Zone 5		20,000	(20,000)		N/A	
11/01/20	Transco Southeastern Trail FT Zone 5 to Zone 3	55,400	0	55,400		N/A	
1/1/2021	Transco Southeastern Trail FT Zone 5 to Zone 3	4,600	0	4,600		N/A	

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Demand and Storage Costs**  
**Incurred versus Collected**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 7**

	<b>Gas Flow Month</b>	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
	<b>Reporting Month</b>	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
	<b>Item</b>													
1	Demand & Storage Costs Expensed	\$9,882,830	\$8,443,218	\$8,639,383	\$7,633,959	\$7,815,729	\$7,846,550	\$7,649,110	\$7,971,329	\$9,499,794	\$9,907,499	\$10,078,304	\$9,713,502	\$105,081,205
2	Prior Month True Up	(1,440,326)	196,516	(1,021,037)	196,349	31,823	(197,512)	318,951	1,386,513	553,328	170,819	(379,555)	1,648,697	\$1,464,565
3	Current Month True Up													
4	Demand & Storage Costs Incurred	8,442,504	8,639,734	7,618,346	7,830,308	7,847,551	7,649,038	7,968,061	9,357,842	10,053,122	10,078,318	9,698,749	11,362,199	106,545,770
5	Demand & Storage Costs Billed	3,221,051	2,330,142	1,841,365	1,437,551	1,636,357	2,038,619	2,288,231	6,931,047	13,644,153	15,219,905	13,694,013	7,448,118	71,730,552
6	Incurred (Over) Under Collected	\$5,221,453	\$6,309,591	\$5,776,981	\$6,392,757	\$6,211,194	\$5,610,419	\$5,679,830	\$2,426,794	(\$3,591,031)	(\$5,141,587)	(\$3,995,264)	\$3,914,081	\$34,815,218



**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Deferred Account Activity**  
**Sales Customers Only Account**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 8**

Month	Beginning Balance	Commodity Cost (Over) Under Collections	Uncollectible Gas Cost	Hedging Activity	(Increment)/ Decrement	Rounding & Miscellaneous Adjustments	Interest	Ending Balance
Apr-20	(\$4,785,803)	(\$937,403)	\$6,893			\$0	(\$30,456)	(\$5,746,769)
May-20	(\$5,746,769)	(\$811,879)	\$16,672			\$0	(\$35,637)	(\$6,577,613)
Jun-20	(\$6,577,613)	(\$249,318)	\$20,516			\$0	(\$38,814)	(\$6,845,228)
Jul-20	(\$6,845,228)	(\$146,271)	\$17,917			\$0	(\$40,075)	(\$7,013,657)
Aug-20	(\$7,013,657)	(\$266,550)	\$7,797			\$0	(\$41,430)	(\$7,313,839)
Sep-20	(\$7,313,839)	\$133,926	(\$574)			\$0	(\$42,034)	(\$7,222,521)
Oct-20	(\$7,222,521)	(\$525,397)	\$4,383			(\$3,332)	(\$43,411)	(\$7,790,278)
Nov-20	(\$7,790,278)	\$1,171,816	(\$6,965)			\$0	(\$41,806)	(\$6,667,233)
Dec-20	(\$6,667,233)	\$842,222	(\$5,583)	\$2,959,771		\$0	(\$27,660)	(\$2,898,483)
Jan-21	(\$2,898,483)	\$525,643	\$1,496			\$0	(\$15,283)	(\$2,386,626)
Feb-21	(\$2,386,626)	\$5,915,226	\$46,473			\$0	\$3,447	\$3,578,520
Mar-21	\$3,578,520	\$878,720	\$21,121			\$0	\$23,365	\$4,501,726
<b>Total</b>		<b>\$6,530,737</b>	<b>\$130,146</b>	<b>\$2,959,771</b>	<b>\$0</b>	<b>(\$3,332)</b>	<b>(\$329,793)</b>	

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Deferred Account Activity**  
**All Customers Account**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 9**

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Month	Beginning Balance	Commodity Cost (Over) Under Collections	Demand Cost (Over) Under Collections	(Increment)/ Decrement	Miscellaneous Adjustments	Secondary Market Transactions	Supplier Refunds	Interest	Ending Balance
Apr-20	\$8,101,647	(62,254)	5,221,453	(707,353)	0	(1,574,017)	0	55,335	\$11,034,812
May-20	11,034,812	(16,641)	6,309,591	(512,221)	0	(1,426,760)	0	76,628	\$15,465,409
Jun-20	15,465,409	10,128	5,776,981	(403,869)	0	(1,496,883)	0	100,970	\$19,452,736
Jul-20	19,452,736	(29,051)	6,392,757	(315,475)	388	(1,513,537)	(13,097,646)	87,994	\$10,978,166
Aug-20	10,978,166	(15,498)	6,211,194	(358,740)	1,132	(1,528,728)	0	76,171	\$15,363,698
Sep-20	15,363,698	1,659	5,610,419	(447,525)	0	(1,528,542)	0	99,654	\$19,099,363
Oct-20	19,099,363	(40,804)	5,679,830	(504,024)	0	(1,519,820)	0	121,260	\$22,835,804
Nov-20	22,835,804	(73,704)	2,426,794	(179,812)	0	(1,437,212)	0	134,582	\$23,706,453
Dec-20	23,706,453	4,356	(3,591,031)	(49,892)	439	(1,943,047)	0	121,318	\$18,248,595
Jan-21	18,248,595	4,988	(5,141,587)	0	0	(1,892,364)	0	85,458	\$11,305,090
Feb-21	11,305,090	89,850	(3,995,264)	0	4,868	(1,715,294)	0	49,284	\$5,738,533
Mar-21	5,738,533	62,284	3,914,081	0	(11,737)	(1,677,473)	0	39,916	\$8,065,604
<b>Total</b>		<b>(\$64,687)</b>	<b>\$34,815,218</b>	<b>(\$3,478,910)</b>	<b>(\$4,911)</b>	<b>(\$19,253,677)</b>	<b>(\$13,097,646)</b>	<b>\$1,048,570</b>	

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Gas Supply**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 10**

<b>Gas Flow Month</b>	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
<b>Reporting Month</b>	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
<b>SOURCES OF SUPPLY AT CITY GATE</b>													
Contract # 16	0	0	20,000	20,000	0	0	0	0	0	0	0	0	40,000
Contract # 75	0	0	20,000	0	0	0	0	0	0	0	0	0	20,000
Contract # 118	310,000	0	0	0	0	0	0	0	0	0	0	0	310,000
Contract # 64	0	0	0	51,000	5,000	0	190,000	378,000	72,400	231,042	131,600	60,000	1,119,042
Contract # 114	0	0	20,000	0	0	0	10,000	0	30,000	15,000	0	0	75,000
Contract # 46	0	455,365	470,611	461,430	470,609	470,611	444,739	431,520	735,426	770,609	860,611	715,068	6,286,599
Contract # 74	0	20,000	25,000	89,000	15,000	0	100,000	41,000	320,000	802,000	1,055,000	538,378	3,005,378
Contract # 1	1,232,029	1,348,520	1,251,978	1,220,926	1,161,001	1,306,680	1,072,856	1,098,031	710,257	1,246,077	1,578,617	1,621,634	14,848,606
Contract # 111	295,014	20,000	32,000	11,000	13,000	0	470,000	112,000	237,930	634,331	707,261	723,268	3,255,804
Contract # 86	0	0	0	0	0	0	0	0	300,000	310,000	350,000	280,000	1,240,000
Contract # 125	0	300,000	310,000	300,000	310,000	310,000	300,000	310,000	300,000	309,999	310,000	279,762	3,339,761
Contract # 122	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract # 34	570,000	311,000	186,000	56,000	36,000	10,000	39,812	518,000	230,386	393,000	583,857	476,000	3,410,055
Contract # 113	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract # T26	(1)	10	3	2	3	0	7	15	58	26	79	59	261
Contract # 110	10,077	0	0	0	0	0	0	0	0	0	0	0	10,077
Contract # 123	82,000	251,000	738,000	323,000	15,000	0	147,300	755,600	0	700,000	835,000	150,000	3,996,900
Contract # 49	315,681	161,000	133,000	32,000	0	0	10,000	60,000	275,000	1,100,000	945,000	805,000	3,836,681
Contract # 9	90,000	477,000	118,000	89,000	5,000	0	79,856	135,000	45,000	679,947	495,000	312,000	2,525,803
Contract # 54	270,000	0	9,000	0	0	0	0	0	835,000	1,550,000	1,550,000	1,200,000	5,414,000
Transco Cash Out	142	0	0	0	0	0	0	0	0	0	0	0	142
Monroe Cash Out	0	0	0	0	0	0	0	0	0	0	0	0	0
Transportation Pooling Cash Out	(45,272)	(13,848)	(22,974)	(18,764)	(28,244)	(15,949)	14,873	(10,866)	(14,481)	30,206	(55,814)	18,134	(162,999)
Secondary Market Transactions													0
Contract # 46	0	0	0	0	0	0	(14,509)	(170,000)	(20,000)	(10,000)	(230,000)	(267,852)	(712,361)
Contract # 1	(50,000)	0	0	0	0	0	0	0	0	0	0	0	(50,000)
Contract # 49	0	0	0	0	0	0	0	0	0	0	0	0	0
Bundled Sales	0	0	0	0	0	0	0	0	0	(252,092)	0	0	(252,092)
Facilities Damages	(3,333)	(352)	(565)	(3,143)	(7,269)	(5,000)	(3,319)	(3,558)	(1,734)	(8,952)	0	(3,939)	(41,165)
<b>Subtotal</b>	3,076,337	3,329,694	3,310,053	2,631,451	1,995,100	2,076,342	2,861,614	3,654,742	4,055,242	8,501,193	9,116,211	6,907,513	51,515,491
Supplier Fuel Use	(105,199)	(76,929)	(69,663)	(56,530)	(40,344)	(41,646)	(63,877)	(78,105)	(80,901)	(151,036)	(171,670)	(146,950)	(1,082,850)
<b>TOTAL SUPPLY TO CITY GATE</b>	2,971,138	3,252,765	3,240,390	2,574,921	1,954,756	2,034,696	2,797,737	3,576,637	3,974,341	8,350,157	8,944,541	6,760,563	50,432,641

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Summary of Gas Supply**  
**For the Twelve Months Ended March 31, 2021**  
**Schedule 10**

<b>Gas Flow Month</b>	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	
<b>Reporting Month</b>	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
<b>STORAGE INJECTIONS</b>													
Columbia Storage	0	(281,016)	(281,016)	(281,016)	(281,016)	(281,016)	(281,016)	(222,611)	0	0	0	0	(1,908,707)
Cove Point LNG	0	0	0	0	0	0	0	0	0	0	0	0	0
DTI GSS	0	(276,103)	(276,103)	(276,103)	(276,103)	(276,103)	(276,103)	(276,100)	0	0	0	0	(1,932,718)
Transco Eminence	(65,473)	(14,490)	(23,047)	0	(6,000)	(18,205)	(12,000)	(49,906)	(53,000)	(68,387)	(85,811)	(83,784)	(480,103)
Transco ESS	(60,167)	(10,000)	(35,599)	0	0	(19,846)	(17,709)	(47,960)	(26,686)	(77,042)	(82,420)	(82,406)	(459,835)
Transco GSS	(119,032)	(46,616)	(190,138)	(193,651)	(58,625)	(53,111)	(215,776)	(207,628)	(23,398)	(51,030)	(24,280)	(61,200)	(1,244,485)
Transco LGA	0	0	0	0	0	0	0	0	0	0	0	0	0
LNG	0	(86,504)	0	0	0	0	0	(75,306)	(172)	0	0	0	(161,982)
Pine Needle	(46,575)	(10,350)	(87,975)	(139,725)	0	(56,925)	0	0	(9,934)	(5,140)	(5,175)	(5,175)	(366,974)
Saltville	(13,777)	0	0	0	0	0	(20,558)	(60,686)	(44,267)	(150,042)	(156,321)	(159,998)	(605,649)
Transco WSS	(23,119)	(13,058)	(143,100)	(191,396)	0	0	(298,103)	(321,061)	(5,922)	0	(51,680)	(38,149)	(1,085,588)
<b>TOTAL STORAGE INJECTIONS</b>	<b>(328,143)</b>	<b>(738,137)</b>	<b>(1,036,978)</b>	<b>(1,081,891)</b>	<b>(621,744)</b>	<b>(705,206)</b>	<b>(1,121,265)</b>	<b>(1,261,258)</b>	<b>(163,379)</b>	<b>(351,641)</b>	<b>(405,687)</b>	<b>(430,712)</b>	<b>(8,246,041)</b>
<b>STORAGE WITHDRAWALS</b>													
Columbia Storage	631,270	0	0	0	0	0	0	0	194,856	354,188	598,985	501,714	2,281,013
Cove Point LNG	0	0	0	0	0	0	0	0	0	0	0	50,000	50,000
DTI GSS	706,833	0	0	0	0	0	0	0	138,286	368,656	600,598	638,479	2,452,852
Transco Eminence	61,938	39,643	16,975	0	7,115	44,452	0	0	73,185	25,852	130,720	157,899	557,779
Transco ESS	61,938	39,643	16,975	0	7,115	46,716	0	0	59,971	20,329	100,846	185,146	538,679
Transco GSS	91,218	125,680	14,008	0	480	21,103	7,928	11,373	158,177	284,267	295,872	510,548	1,520,654
Transco LGA	0	0	0	0	0	0	0	0	0	0	0	0	0
LNG	16,911	790	14,991	13,213	13,999	13,282	12,220	4,518	13,727	14,377	15,267	112,071	245,366
Pine Needle	20,167	35,233	0	0	0	0	0	0	4,333	84,350	78,518	229,059	451,660
Saltville	0	0	0	0	0	0	0	0	0	305,732	160,000	480,000	945,732
Transco WSS	200,567	98,593	15,738	0	0	0	0	1,016	192,977	255,136	398,905	417,206	1,580,138
<b>TOTAL STORAGE WITHDRAWALS</b>	<b>1,790,842</b>	<b>339,582</b>	<b>78,687</b>	<b>13,213</b>	<b>28,709</b>	<b>125,553</b>	<b>20,148</b>	<b>16,907</b>	<b>835,512</b>	<b>1,712,887</b>	<b>2,379,711</b>	<b>3,282,122</b>	<b>10,623,873</b>
<b>COMPANY USE VOLUMES</b>	<b>(11,202)</b>	<b>(9,261)</b>	<b>(7,204)</b>	<b>(5,151)</b>	<b>(5,457)</b>	<b>(24,034)</b>	<b>(41,601)</b>	<b>(20,477)</b>	<b>(19,131)</b>	<b>(20,067)</b>	<b>(30,664)</b>	<b>(28,741)</b>	<b>(222,989)</b>
<b>GAS SUPPLY FOR DELIVERY</b>	<b>4,422,635</b>	<b>2,844,949</b>	<b>2,274,895</b>	<b>1,501,092</b>	<b>1,356,264</b>	<b>1,431,009</b>	<b>1,655,020</b>	<b>2,311,810</b>	<b>4,627,342</b>	<b>9,691,336</b>	<b>10,887,901</b>	<b>9,583,232</b>	<b>52,587,485</b>

**Public Service Company of North Carolina, Inc.**  
**Docket No. G-5, Sub 635**  
**Hedging Deferred Account Activity**  
**For the Twelve Months Ended March 31, 2021**  
**Creel Direct Exhibit 2**

	Item	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
1	Beginning balance	\$2,959,771	\$3,231,434	\$3,421,575	\$3,464,310	\$3,511,244	\$3,477,844	\$3,599,004	\$2,852,745	\$2,538,270	(\$375,220)	(\$367,337)	(\$335,323)	\$2,959,771
	Broker Transactions													
2	Premium	252,670	170,070	22,680	26,610	0	100,200	0	0	39,810	9,980	35,450	13,260	670,730
3	Settle	0	0	0	0	(54,728)	0	(771,533)	(337,280)	0	0	(4,575)	(114,223)	(1,282,338)
4	Fees	1,090	832	145	153	1,117	496	6,617	7,216	216	51	3,170	2,016	23,120
5	Margin Requirement													
	OTC Transactions													
6	Premium													
7	Settle													
8	Fees													
9	Swaps (Proceeds) / Costs													
	Other													
10	Interest													
11	Move to Sales Customer D/A									(2,959,771)				(2,959,771)
12	Sub-total	3,213,531	3,402,337	3,444,399	3,491,073	3,457,634	3,578,540	2,834,089	2,522,681	(381,475)	(365,190)	(333,291)	(434,270)	(588,488)
13	Interest	17,903	19,238	19,911	20,171	20,210	20,464	18,656	15,589	6,255	(2,147)	(2,032)	(2,232)	151,986
14	Ending balance	\$3,231,434	\$3,421,575	\$3,464,310	\$3,511,244	\$3,477,844	\$3,599,004	\$2,852,745	\$2,538,270	(\$375,220)	(\$367,337)	(\$335,323)	(\$436,502)	(\$436,502)

**QUALIFICATIONS AND EXPERIENCE**

NEHA PATEL

I graduated from University Of Mumbai in 1995 with a Bachelor of Science degree in Electronic Engineering. I began working as a Utilities Engineer with the Natural Gas Division of the Public Staff in spring of 2014. In 2020, I became Manager of the Natural Gas Section of the Energy Division.

I have worked on Purchase Gas Cost Adjustment Procedures, Tariff Filings, Customer Utilization Trackers, Special Contract Review and Analysis, Weather Normalization Adjustments, Customer Complaint Resolutions, Integrity Management Riders, Franchise Exchange Filings, Compressed Natural Gas Special Contracts, Peak Day Demand and Capacity Calculations, Fuel and Electric Usage Trackers, Gas Resellers, Annual Review of Gas Cost Proceedings, Renewable Natural Gas Filings, Cost of Service Study, General Rate Case Proceedings, and Rate Design.

**QUALIFICATIONS AND EXPERIENCE**

SHAWN L. DORGAN

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 specialized in providing accounting support in conjunction with rider rate proceedings, in particular program cost reviews of energy efficiency programs authorized for the state's electric utilities under N. C. Gen. Stat. § 62-133.9. In addition, I have provided expert witness testimony in annual review of gas cost (ARGC) proceedings, first for Frontier Natural Gas Company, and now for Public Service Company of North Carolina (PSNC, a Dominion Energy company).

Alongside the rider and ARGC proceedings, I have provided accounting and testimonial support in general rate cases involving North Carolina's largest investor-owned electric and natural gas utilities, serving as the lead technical accountant in the 2019 Duke Energy Progress general rate case (Docket No. E-2, Sub 1219).

## **QUALIFICATIONS AND EXPERIENCE**

JULIE G. PERRY

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.



**Greg Lander, President**  
**Skipping Stone LLC**

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**Professional Summary:**

As President of Skipping Stone Inc., Greg Lander is responsible for Strategic Consulting in the mergers and acquisition arena with numerous clients within the energy industry. Generally recognized in the energy industry as an expert, he has advised and/or given testimony at numerous Federal Energy Regulatory Commission (FERC), State, arbitration, and legal proceedings on behalf of clients and has advised as well as initiated standards formation before the Gas Industry Standards Board (GISB) (predecessor to the North American Energy Standards Board (NAESB)). As Founder, President, and Chief Technology Officer of TransCapacity Limited Partnership, he was responsible for conceiving, planning, managing, and designing Transaction Coordination Systems utilizing Electronic Data Interchange (EDI) between trading partners. As a founding member of GISB, he assisted in establishing protocols and standards within the Business Practices, Interpretations and Triage Subcommittees.

**Professional Accomplishments:**

- Handled all Due Diligence for purchaser (Loews Corp) in acquisitions of two interstate pipelines, one natural gas storage complex, and ethylene distribution and transmission systems (Texas Gas Transmission, Gulf South Pipeline, Petal Storage, Petrologistics, and Chevron Ethylene Pipeline) most in excess of \$1 Billion. Developed purchaser's business case model, including rate/revenue models, forward contract renewal models, export basis modeling and revenue models, and operating cost and capex models. Coordinated Engineering and Environmental Due Diligence Teams integrating findings and assessments into final Diligence Reports.
- Assisted major electric retailer in 9 states with business case development for entry into North Eastern U.S. Commercial & Industrial natural gas marketing business. Identified market share of incumbents; retail registration process, billing processes; utility data exchange rules and procedures and developed estimates of addressable market by utility.
- Handled all economic Due Diligence for purchaser of large minority stake in Southern Star Gas Pipeline. Developed purchaser's business case model, including rate/revenue models and forward contract renewal models, assessed potential competitive by-pass of asset located in "pipeline alley", developed revenue models and operating cost and capex models. Coordinated Engineering, Pipeline Integrity, and Environmental Due Diligence Teams integrating findings and assessments into final Diligence Reports.
- Developed post-acquisition integration plans for inter-operability and alterations to system operations to take advantage of opportunities presented by

synergistic facilities' locations and functions and complimentary contractual requirements. Implementation of plan resulted in fundamental changes to systems operations and improvement in systems, net revenues, capacity capabilities, and facilities utilization.

- Handled all economic analysis, modeling, and systems capability due diligence for potential purchaser in several preliminary or completed yet un-consummated pre-transaction investigations involving Panhandle Eastern, Northern Border, Bear Paw, Florida Gas, Transwestern, Great Lakes, Guardian, Midwestern, Viking, Southern Star, Columbia Gas, Midla, Targa (No. Texas), Ozark, ANR, Falcon Gas Storage, Tres Palacios, Rockies Express, Norse Pipelines, Southern Pines, Leaf River, LDH (Mont Belvieu), Kinder Morgan Interstate, Trailblazer, Rockies Express and South Carolina Gas Transmission.
- Post Texas Gas Transmission and Gulf South Pipe Line acquisitions, assisted with all investigations involving assessments and proposals for realizing potential synergies with/from asset portfolio; rate case strategy development and alternate case development; and strategies around contract renewal challenges.
- Headed up due diligence team in acquisition of multi-state retail (residential) natural gas and electric book by Commerce Energy.
- Headed up due diligence team in acquisition of multi-state retail (C&I) natural gas book by Commerce Energy.
- Served as lead consultant for consortium of end-users, Local Distribution Companies, Power Generators, and municipalities in several major FERC Rate Cases, service restructuring, and capacity allocation proceedings involving a major Southwestern U.S. Pipeline.
- Expert witness in numerous gas and electric utility rate cases; integrated resource plans; litigated service offerings and cost approval and allocation proceedings for public interest clients. Controversies, often involving hundreds of millions to billions of dollars over cases' time horizons, are common.
- Served as lead consultant and expert witness for consortium of end-users, Local Distribution Companies, Power Generators, and municipalities in major FERC rate case under litigation involving decades-long disputes over service levels, cost allocation, and rate levels.
- Served as lead consultant for consortium of end-users and municipalities in major FERC rate case involving implementation of proposed rate design, cost allocation, and rate level changes.
- Developed and critiqued Rate Case Models for several pipeline proceedings and proposed proceedings (as consultant variously to both pipeline and shippers). Activities included modeling (and critiquing) new services' rates, costs, and revenues; responsibilities included development of various alternative cost allocation/rate designs and related service delivery scenarios.

- Handled all market assessment, forward basis research, and transportation competition modeling for several proposed major pipelines and laterals, including two \$1 Billion+ Greenfields projects that went into construction and operation providing new outlets for growing southwestern shale production. (Gulf Crossing and Fayetteville Lateral).
- Assessed supply and demand balance for Southwestern US (OK, TX, Gulf Coast and LA) including assessment of future demand and supply displacement associated with West Texas wind power development and its likely impact on pipeline export capacity from region.
- Assessed supply and demand balance for Northeast to Gulf Coast capacity additions including assessment of Gulf Coast demand and export growth and its likely impact on forward basis.
- Assessed start-up gas supply needs for Appalachian coal fired power plant, resulting in installation of on-site LNG storage and gasification to address lack of enough firm pipeline capacity to meet need.
- Assessed installed and projected wind-turbine capacity in ERCOT and its eventual impact on Texas electric market as wind power output approaches minimum ERCOT load levels.
- Designed and developed EDI based data collection system, data warehouse and web-based delivery system ([www.capacitycenter.com](http://www.capacitycenter.com)) for delivering capacity data collected from pipelines to shippers, marketers, traders, and others interested in capacity information to support business operations and risk-management requirements.
- Designed pipeline capacity release deal integrating settlement system for firm users, including design and development for information services delivery on a transaction fee basis.
- Assisted client in developing proposals to increase pipeline capacity responsiveness and proposed market fixes that would create price signals around sub-day non-ratable flows, including rate proposals, sub-day capacity release markets, and measures to address advance reservation of capacity for electric generation fuel to meet sub-day generation demands.
- Developed "universal capacity contract" data model for storage of all interstate capacity contract transactions from all 60 major interstates in single database.
- Led design effort culminating in FERC-mandated datasets defining pipeline capacity rights, (including receipt capacity, mainline capacity, delivery capacity, segmentation rights, in and out of path capacity rights), Operationally Available Capacity, Index of Customers, and Transactional Capacity Reports (through GISB).
- Assembled consortium of utilities to investigate and develop large high-deliverability salt storage cavern in desert southwest (Desert Crossing). As LLC's Acting Manager, was responsible for developing business case and

economic models; handling all partner issues and reporting; coordinating all field engineering, facilities design, planning and siting; and managing all environmental, legal, engineering and regulatory activities. Wrote FERC Tariff. Brought project to NEPA Pre-Filing Stage and conducted non-binding Open Season, as well as assisted with prospective shipper negotiations. Project cancelled due to 2001 "California Energy Crisis" and contemporaneous Enron and energy trading sector implosions.

- Designed comprehensive retail energy transaction and customer acquisition data model, process flow, and transaction repository for web-based customer acquisition and customer enrollment intermediary.
- Experienced in negotiation and drafting (from both seller side and buyer side) of firm supply, firm precedent, firm transportation, firm storage, and power supply and capacity agreements for numerous entities including project financed IPPs and for new greenfields pipeline and expansion of storage system.
- Conducted interstate pipeline capacity utilization analysis for New England following winter of 2013/2014 price fly-up.
- Conducted PJM East interstate gas pipeline capacity utilization and comparative analysis between pipelines with standard NAESB nominating cycles versus those with near hourly scheduling practices.
- Conducted requirements analysis for several firms pursuing software selection of energy transaction systems.
- Instrumental in the formation of the GISB. Member of industry team that lead the development of the proposal for and bylaw changes related to the formation of NAESB.
- Provided support to numerous clients and clients' attorneys in disputes involving capacity contracts, capacity rights allocations, tariffs, rate cases, and supply contract proceedings as both up-front and behind the scenes expert.

#### **Associations and Affiliations:**

Longest serving Member of Board of Directors for NAESB and prior to that GISB - 25 years.

GISB Committees: Former Chairman, Business Practices Subcommittee – drafted approximately 450+ initial industry standards that are now codified FERC regulations (Order 567); Former Chairman, Interpretations Subcommittee – drafted and led adoption process for first 50+ standards interpretations; Former Chairman, Triage Subcommittee; Title Transfer Tracking Task Force; Order 637 GISB Action Subcommittee; and industry Common Codes Subcommittee. Currently member of NAESB Wholesale Gas Quadrant Executive Committee and of NAESB Parliamentary Committee.

**Past and Affiliations and Associated Accomplishments:**

1981-1989: One of five initial employees of Citizens Energy Corporation, Boston Mass. Responsible for starting and growing Citizens Gas Supply, one of the first independent gas marketers of the early 1980's, into \$200MM+ annual operation. Successfully lobbied for pipeline Open Access (Orders 436 and 636), introduction of pipeline Affiliated Marketer rules of conduct (Order 497), and Open Access to pipeline operational information (Order 563).

1989-1993: Independent Consultant - Natural Gas Projects, Pipeline Rate Cases, Project Financed Contract negotiations, and Independent Power markets

1993 – 1999: Founder and President, TransCapacity Service Corp – Software products and services related to pipeline capacity trading, nomination, and contracting. Raised \$17 MM from industry player to establish TransCapacity. Successfully lobbied for Pipeline restructuring and formation of capacity release market (Order 636). Sold to Skipping Stone.

1999 – 2004: Principal and Partner, Skipping Stone – Energy market consultants

2004 – 2008: President of Skipping Stone following purchase of Skipping Stone by Commerce Energy, Inc.

2008: Repurchased Skipping Stone from Commerce Energy, Reformulated Skipping Stone as LLC with Peter Weigand

2008 to Present: President and Partner, Skipping Stone. In addition to handling book of clients, responsible for all Banking, Accounting, Operations, Risk Management and contract matters for Skipping Stone.

**Education:**

1977: Hampshire College, Amherst, MA; Bachelor of Arts

**Publication:**

2013: Synchronizing Gas & Power Markets - Solutions White Paper

**Expert Testimony of Gregory M. Lander**

<b>Name of Case</b>	<b>Jurisdiction</b>	<b>Docket Number</b>	<b>Date</b>
El Paso Natural Gas Company	Federal Energy Regulatory Commission	RP04-251-000	May 3, 2004 (Testimony)
El Paso Natural Gas Company	Federal Energy Regulatory Commission	RP08-426-000	May 19, 2009 (Answering Testimony)  June 2, 2010 (Supplemental Answering Testimony)
El Paso Natural Gas Company	Federal Energy Regulatory Commission	RP10-1398-000	June 28, 2011 (Answering Testimony)  March 4, 2014 (Answering Testimony)
Petition of Boston Gas Company and Colonial Gas Company, each d/b/a National Grid for Approval by the Department of Public Utilities for a Firm Transportation Contract with Algonquin Gas Transmission Company	Massachusetts Department of Public Utilities	13-157	December 12, 2013 (Direct Testimony)
Petition of Boston Gas Company d/b/a National Grid for Approval by the Department of Public Utilities of a twenty-year Firm Transportation Agreement with Tennessee Gas Pipeline Company, involving an expansion of	Massachusetts Department of Public Utilities	15-34	June 5, 2015 (Direct Testimony)

Tennessee's interstate pipeline running from Wright, New York to Dracut, Massachusetts, known at the Northeast Energy Direct Project			
Petition of Bay State Gas Company d/b/a Columbia Gas of Massachusetts for Approval by the Department of Public Utilities of a twenty-year Firm Transportation Agreement with Tennessee Gas Pipeline Company, involving an expansion of Tennessee's interstate pipeline running from Wright, New York to Dracut, Massachusetts, known at the Northeast Energy Direct Project	Massachusetts Department of Public Utilities	15-39	June 5, 2015 (Direct Testimony)
Petition of The Berkshire Gas Company for Approval of a Precedent Agreement with Tennessee Gas Pipeline Company, LLC, pursuant to G.L. c. 164, § 94A	Massachusetts Department of Public Utilities	15-48	June 5, 2015 (Direct Testimony)
Investigation of Parameters for Exercising Authority Pursuant to Maine Energy Cost Reduction Act, 35-A M.R.S.A. Section 1901	Maine Public Utilities Commission	2014-00071	July 11, 2014 (Direct Testimony)
Virginia Electric and Power Company's Integrated Resource Plan filing pursuant to Va. Code § 56-597 <i>et seq.</i>	Virginia Corporation Commission	PUR-2017-00051	August 11, 2017 (Direct Testimony)



In the Matter of the Laclede Gas Company's Request to Increase Its Revenues for Gas Service	Missouri Public Service Commission	<u>File No.</u> <u>GR-2017-0215</u>	September 8, 2017 (Direct Testimony) Consolidated and November 21, 2017 (Surrebuttal Testimony) Consolidated
In the Matter of the Laclede Gas Company d/b/a Missouri Gas Energy's Request to Increase Its Revenues for Gas Service		<u>File No.</u> <u>GR-2017-0216</u>	
Application of San Diego Gas & Electric Company (U902M) for Authority, Among Other Things, to Update its Electric and Gas Revenue Requirement and Base Rates Effective on January 1, 2019.	California Public Utilities Commission	Application 17-10-007	Consolidated  Direct Testimony May 14, 2018  Rebuttal Testimony June 8, 2018
Application of Southern California Gas Company (U904G) for Authority, Among Other Things, to Update its Gas Revenue Requirement and Base Rates Effective on January 1, 2019.		Application 17-10-008	
Application of Virginia Electric and Power Company to revise its fuel factor pursuant to § 56-249.6 of the Code of Virginia	Virginia State Corporation Commission	PUR-2018-00067	Direct Testimony June 14, 2018
Application of Southern California Gas Company (U 904 G) and San Diego Gas & Electric Company (U 902 G) Regarding Feasibility of Incorporating Advanced Meter Data Into the Core Balancing Process	California Public Utilities Commission	Application 17-10-002	Direct Testimony July 2, 2018
Virginia Electric and Power Company's Integrated Resource Plan filing	Virginia Corporation Commission	PUR-2018-00065	August 13, 2018 (Direct Testimony)



pursuant to Va. Code § 56-597 <i>et seq.</i>			
In the Matter of Constellation Mystic Power, LLC Docket No. ER18-1639	Federal Energy Regulatory Commission	ER18-1639	September 4, 2018 (Cross Answering Testimony)
South Carolina Electric and Gas Company Application for Approval of Merger with Dominion Resources Docket Nos. 2017-370-E; 2017-305-E; and 2017-207-E	South Carolina Public Service Commission	Docket Nos. 2017-370-E; 2017-305-E; and 2017-207-E	September 24, 2018 (Direct Testimony)
In re: Annual Review of Base Rates for Fuel Costs of South Carolina Electric and Gas Company	South Carolina Public Service Commission	Docket 2019-2-E	March 19, 2019 (Direct Testimony)
Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Consolidated Edison Company for Gas Service	New York Public Service Commission	Case 19-G-0066	May 24, 2019 (Direct Testimony)
Application of Virginia Electric and Power Company to revise its fuel factor pursuant to VA Code § 56-249.6.	Virginia State Corporation Commission	Case No. PUR-2019-00070	June 19, 2019 (Direct Testimony)
In the Matter of Annual Review of Base Rates for Fuel Costs for Duke Energy Carolinas, LLC, Increasing Residential and Non-Residential Rates	South Carolina Public Service Commission	Docket 2019-3-E	August 19, 2019 (Direct Testimony)
Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of The Brooklyn Union Gas Company d/b/a National Grid NY for Gas Service	New York Public Service Commission	Case-19-0309	August 30, 2019 (Direct Testimony)
Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of The KeySpan	New York Public Service Commission	Case-19-0310	August 30, 2019 (Direct Testimony)

Gas East Corp. d/b/a National Grid for Gas Service			
Annual Review of Base Rates for Fuel Costs of Dominion Energy South Carolina, Inc.	South Carolina Public Service Commission	DOCKET NO. 2020-2-E	March 13, 2020 (Direct Testimony) March 27, 2020 (Surrebuttal Testimony)
APPLICATION OF VIRGINIA ELECTRIC AND POWER COMPANY <i>To revise its fuel factor pursuant to § 56-249.6 of the Code of Virginia</i>	Virginia State Corporation Commission	Case No. PUR-2020-00031	April 30, 2020 (Direct Testimony)
Annual Review of Base Rates for Fuel Costs of Duke Energy Progress, LLC	South Carolina Public Service Commission	DOCKET NO. 2020-1-E	May 18, 2020 (Direct Testimony) June 2, 2020 (Surrebuttal Testimony)
In the Matter of the Application of Washington Gas Light Company for Authority to Increase Existing Rates and Charges for Gas Service	District of Columbia Public Service Commission	Formal Case No. 1162	July 31, 2020 (Direct Testimony)
Annual Review of Base Rates for Fuel Costs of Duke Energy Carolinas, LLC, Increasing Residential and Non-Residential Rates	South Carolina Public Service Commission	DOCKET NO. 2020-3-E	August 14, 2020 (Direct Testimony)

**PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.  
ANNUAL REVIEW OF GAS COSTS DOCKET NO. G-5, SUB 635  
HAW RIVER ASSEMBLY DATA REQUEST NO. 1  
July 9, 2021**

- 1-29. Assuming, as PSNC states, that 50,000 Dthd of Southgate “firms up” PSNC’s ability to receive firm service to support its ETNG/Saltville storage deliverability, this would leave 250,000 Dthd of capacity on MVP/SG to serve PSNC system demand. Further, assuming that PSNC’s Annual load also increases at the same 2.17% compounded year over year as its Design Day is forecasted to grow and thus becomes approximately 54.9 Million Dth in 2023; does PSNC have a market for, or an off-take buyer for, the estimated 97.5% of annual capacity (beyond PSNC’s load growth) that is available to PSNC as a result of adding 91.25 Million Dth of annual capacity but forecasted to only use approximately 2.3 Million Dth of that capacity to serve PSNC’s load estimated to grow at 2.17% compounded from 2021?

Response

The question incorrectly assumes that PSNC acquires capacity to meet the annual needs of its customers. Rather, the capacity is maintained at a level to meet PSNC’s firm demand on the coldest day to ensure reliable service to firm sales customers.

**PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.  
ANNUAL REVIEW OF GAS COSTS DOCKET NO. G-5, SUB 635  
HAW RIVER ASSEMBLY DATA REQUEST NO. 1  
July 9, 2021**

1-27. With respect to North Carolina's Clean Energy Plan:

- a. Please provide a narrative explaining the steps is PSNC taking to access, promote and utilize:
  - i. Landfill natural gas?
  - ii. Biologic methane gas recovered from animal waste?
  - iii. Biologic methane gas from sewage wastewater?
  - iv. Other renewable sources of methane gas that have low or negative carbon intensity characteristics?
- b. Please provide the daily and annual amount in Dth of the gas purchased or produced by PSNC of:
  - i. Landfill natural gas?
  - ii. Biologic methane gas recovered from animal waste?
  - iii. Biologic methane gas from sewage wastewater?
  - iv. Other renewable sources of methane gas that have low or negative carbon intensity characteristics?
- c. Please provide a narrative explaining the steps is PSNC taking to reduce emissions of natural gas from its assets relative to Dominion Energy's announced goal of a 50% reduction by 2030?
  - i. In this regard, is the (222,989) Dth of Company Use gas shown on Creel Exhibit 1, Schedule 10, page 2 inclusive of "lost and unaccounted for"?
    1. If so, what does PSNC estimate is the portion of the (222,989) is comprised of "lost and unaccounted for"?
    2. If not, what is the estimated amount, annually of emissions from PSNC assets that is proposed to be reduced by 50%?
  - ii. In this regard, what is the dollar amount that PSNC estimates will be the annual cost between 2021 and 2030 (stated individually) of reducing emissions from PSNC assets by 50% to be?
- d. Please provide a narrative explaining the steps is PSNC taking to study or assess Direct Air Capture and subsequent sequestration or use of CO<sub>2</sub> emitted by PSNC's natural gas customers as one way to reduce atmospheric CO<sub>2</sub> and contribute to meeting the state's CO<sub>2</sub> reduction goals?

Response

- a. PSNC has welcomed inquiries of interest from potential renewable natural gas (RNG) producers located on PSNC's system and has worked with these potential producers by providing guidance on the regulatory process, assessing the viability of interconnection points, and providing estimated costs of interconnection.
  - i. Discussions referenced above have resulted in two landfill producers filing for and receiving acceptance into PSNC's pilot RNG program. Interconnection agreements were approved by the Commission for these projects.
  - ii. PSNC has had inquiries and discussions with potential providers of RNG recovered from animal waste, but these potential projects are still in the conceptual stage and may or may not result in a viable project.
  - iii. PSNC has had inquiries and discussions with municipal operators of sewage treatment facilities, and one operator, the City of Raleigh, has publicly announced its project.
  - iv. PSNC has had inquiries and discussions with breweries, but these potential projects are still in the conceptual stage and may or may not result in a viable project.
- b. PSNC has not purchased or produced any RNG.
- c. Steps PSNC has taken to reduce natural gas emissions include the following:
  - Broad utilization of tapping and stopping to minimize blowdown segment length and volume.
  - Utilizing the pipeline system to draw down system pressures before blowdown events.
  - Utilizing portable compression equipment to minimize or eliminate blowdowns. This allows gas to be moved from an isolated pipeline segment into the adjacent pipeline, keeping all the gas inside the pipe.
  - Utilization of supplemental leak detection and repair surveys to reduce fugitive emissions. These surveys are performed in addition to and/or more frequently than surveys required by regulation.
  - Utilization of pressurized holds at compressor stations during non-operating periods. It is common practice to blowdown compressor units when they shut down after a period of use. Leaving the compressor pressurized when not operating eliminates numerous large volume blowdown events each year.
  - Investing in sustainability research via the Company's membership in Operations Technology Development, the non-profit research arm of the Gas Technology Institute.

- Implementation of a third-party damage reduction strategy that includes the addition of damage prevention specialist roles, which places a full-time focus on damage prevention efforts, and development of a high-risk ticket and excavator monitoring system.
  - i. The Company Use Volumes shown on Creel Direct Exhibit 1, Schedule 10, page 2, does not include lost and unaccounted for gas. PSNC has made no estimate regarding annual emission reductions from PSNC assets.
  - ii. PSNC has made no estimate regarding annual cost of emission reductions.
- d. PSNC has not studied or assessed such steps.

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1-17. For all Transco capacity releases from PSNC to acquiring shippers, please identify and provide in excel format those transactions between:

a. PSNC and affiliates of PSNC

i. And for each such transaction please provide the OFFER Number and Bid number, the tariff rate paid by PSNC and the award rate paid by the acquiring shipper.

b. PSNC and non-affiliated electric generators

i. And for each such transaction please provide the OFFER Number and Bid number, the tariff rate paid by PSNC and the award rate paid by the acquiring shipper.

Response

- a. During the review period, PSNC did not release any capacity to an affiliate.
- a. See attached Response 1-17 for all active releases of Transco capacity during the period April 2020 through March 2021.

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**July 9, 2021**

- 1-23. With respect to Jackson Direct Testimony at page 12 Ln 16 through page 13 Ln 20; and, as regards Southgate:
- a. Where does PSNC expect to receive deliveries off of Southgate directly into facilities of PSNC?
  - b. What market does PSNC have to absorb the approximately 250,000 Dthd (i.e., the quantity over and above the ETNG/Saltville 48,778 Dthd of winter 2022-23 “Seasonal Capacity” (see Jackson Exhibit 1).

Response

- a. See the response to question 1-22 above.
- b. PSNC’s design day is growing by approximately 20,000 dts every year. During the upcoming winter season, PSNC will need to contract for 60,000 dts/day of winter peaking supply to maintain an estimated 1% reserve margin. PSNC will have an estimated 17.9% reserve margin when the Southgate capacity goes into service in 2023; however, based on projected load growth, PSNC’s estimated reserve margin will be down to 1.4% by 2030.



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- 1-22. With respect to Jackson Direct Testimony page 12 Ln 16 through page 13 Ln 20; and, as regards MVP; where does PSNC expect to receive deliveries off of MVP directly into facilities of PSNC?

Response

PSNC expects to receive deliveries off MVP's Southgate lateral at interconnects in Rockingham and Alamance Counties.

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- 1-19. With respect to Jackson Exhibit 1, please identify the entity(ies) and location(s) from which the supply is made available to PSNC for the “Short-Term Peaking Service LNG” listed under “Peaking Capacity” for both of “2020-21” (i.e., 40,000 Dth/day) and “2021-22” (i.e., 24,000 Dth/day); and with respect to same:
- a. Please identify the pipeline(s), contract(s) and Path(s) such supply follows to PSNC’s service area(s) location(s).

Response

**[BEGIN CONFIDENTIAL] .... [END CONFIDENTIAL]**

- a. PSNC does not determine the flow of gas or its origination under these contracts, which are for bundled peaking services with deliveries to PSNC’s city gate.