

PLACE: Via Videoconference

COPY

DATE: Thursday, September 9, 2021

TIME: 9:00 a.m. - 12:45 p.m.

BEFORE: Chair Charlotte A. Mitchell, Presiding
Commissioner ToNola D. Brown-Bland
Commissioner Lyons Gray
Commissioner Daniel G. Clodfelter
Commissioner Kimberly W. Duffley
Commissioner Jeffrey A. Hughes
Commissioner Floyd B. McKissick, Jr.

IN THE MATTER OF:

G-9, Sub 722

Consolidated Natural Gas Construction and Redelivery
Services Agreement Between Piedmont Natural Gas
Company, Inc., and Duke Energy Carolinas, LLC;

G-9, Sub 781

Application of Piedmont Natural Gas Company, Inc.,
for an Adjustment of Rates, Charges, and Tariffs
Applicable to Service in North Carolina; and

G-9, Sub 786

Application of Piedmont Natural Gas Company, Inc., for
Modification to Existing Energy Efficiency Program and
Approval of New Energy Efficiency Programs

VOLUME: 3

1 A P P E A R A N C E S:
2 FOR PIEDMONT NATURAL GAS COMPANY, INC.:

3 Amanda Johnson Demopoulos, Esq.
4 Associate General Counsel
5 4720 Piedmont Row Drive
6 Charlotte, North Carolina 28210

7
8 Brian S. Heslin, Esq.
9 Deputy General Counsel
10 Duke Energy Corporation
11 550 South Tryon Street
12 Charlotte, North Carolina 28202

13
14 James H. Jeffries, IV, Esq.
15 McGuireWoods LLP
16 201 North Tryon Street, Suite 3000
17 Charlotte, North Carolina 28202

18
19 CAROLINA UTILITY CUSTOMERS ASSOCIATION:

20 Marcus Trathen, Esq.
21 Craig D. Schauer, Esq.
22 Brooks Pierce
23 150 Fayetteville Street, Suite 1700
24 Raleigh, North Carolina 27601

1 A P P E A R A N C E S (Continued):
2 FOR CAROLINA INDUSTRIAL GROUP FOR FAIR UTILITY RATES

3 IV:

4 Christina D. Cress, Esq.

5 Patrick T. Buffkin, Esq.

6 Bailey & Dixon, LLP

7 434 Fayetteville Street, Suite 2500

8 Raleigh, North Carolina 27601

9

10 FOR DUKE ENERGY CAROLINAS, LLC:

11 Robert W. Kaylor, Esq.

12 Law Office of Robert W. Kaylor, P.A.

13 353 East Six Forks Road, Suite 260

14 Raleigh, North Carolina 27609

15

16 FOR FAYETTEVILLE PUBLIC WORKS COMMISSION:

17 James West, Esq.

18 General Counsel

19 Dustin Doty, Esq.

20 Staff Counsel

21 955 Old Wilmington Road

22 Fayetteville, North Carolina 28301

23

24

1 A P P E A R A N C E S (Continued):
2 FOR THE USING AND CONSUMING PUBLIC AND THE STATE OF
3 NORTH CAROLINA AND ITS CITIZENS:

4 Margaret A. Force, Esq.
5 Special Deputy Attorney General
6 Teresa L. Townsend, Esq.
7 Special Deputy Attorney General
8 North Carolina Department of Justice
9 Post Office Box 629
10 Raleigh, North Carolina 27602

11
12 FOR THE USING AND CONSUMING PUBLIC:
13 Elizabeth D. Culpepper, Esq.
14 Megan Jost, Esq.
15 Lucy E. Edmondson, Esq.
16 Public Staff - North Carolina Utilities Commission
17 4326 Mail Service Center
18 Raleigh, North Carolina 27699-4300

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P R O C E E D I N G S

CHAIR MITCHELL: Good morning. Let's come to order and go on the record, please. I'm Charlotte Mitchell, Chair of the North Carolina Utilities Commission, and with me this morning are the following Commissioners. When I announce your name, please indicate your presence.

Commissioner Brown-Bland.

COMMISSIONER BROWN-BLAND: I'm here.

CHAIR MITCHELL: Commissioner Gray.

COMMISSIONER GRAY: Good morning.

CHAIR MITCHELL: Commissioner Clodfelter.

COMMISSIONER CLODFELTER: Yes, good morning.

CHAIR MITCHELL: Commissioner Duffley.

COMMISSIONER DUFFLEY: Good morning.

CHAIR MITCHELL: Commissioner Hughes.

COMMISSIONER HUGHES: Present.

CHAIR MITCHELL: And Commissioner McKissick.

COMMISSIONER MCKISSICK: Good morning. Present.

CHAIR MITCHELL: All right. Present and

1 accounted for. All right. I now call for hearing
2 Docket Numbers G-9, Sub 722, Sub 781, and Sub 786,
3 in the matter of the application of Piedmont
4 Natural Gas Company, Incorporated for an adjustment
5 of rates, charges, and tariffs applicable to
6 service in North Carolina. By various orders
7 entered in this docket, the Commission has
8 consolidated with Docket Number 781, which is the
9 general rate case docket; Docket Number G-9, Sub
10 722, which is Piedmont's petition for a
11 consolidated natural gas construction and
12 redelivery services agreement between Piedmont and
13 Duke Energy Carolinas -- we will refer to that one
14 as the Lincoln agreement docket -- as well as
15 Docket Number G-9, Sub 786, which is the
16 application of Piedmont for modifications to
17 existing energy efficiency programs and for the
18 approval of new energy efficiency programs. And we
19 will refer to that docket as the energy efficiency
20 docket.

21 Okay. Before we proceed further, and as
22 is required by the State Government Ethics Act, I
23 remind members of the Commission of our duty to
24 avoid conflicts of interest and inquire at this

1 time as to whether any member of the Commission has
2 a known conflict of interest with respect to
3 matters coming before us in this docket.

4 (No response.)

5 Record will reflect that no conflicts
6 have been identified, so we will proceed.

7 All right. Let's go back to the
8 beginning. On July 26, 2004, in Docket Number G-9,
9 Sub 491, Piedmont filed an application for the
10 approval of a multiyear gas redelivery agreement
11 between Piedmont and Duke Power, which was a
12 division of Duke Energy Corporation and the
13 predecessor of Duke Energy Carolinas. This
14 original agreement set the rates and terms by which
15 Piedmont provided natural gas redelivery service to
16 DEC's Lincoln County combustion turbine facility,
17 or the Lincoln plant.

18 On September 3, 2004, the Commission
19 issued an order approving the original agreement.

20 On April 23, 2018, the Company filed, in
21 Docket G-9, Sub 722, for the approval of a
22 consolidated construction and redelivery agreement
23 between Piedmont and Duke Energy Carolinas related
24 to service at the Lincoln plant. Piedmont stated

1 that this agreement consolidated, superseded, and
2 expanded upon DEC's and Piedmont's rights and
3 responsibilities under the original agreement.

4 Thereafter, on November 16, 2018,
5 Piedmont filed a second revised agreement between
6 Piedmont and DEC in effort to address concerns that
7 had been raised by the Public Staff regarding that
8 revised agreement.

9 On January 10, 2020, Piedmont filed a
10 request that the Commission authorize it to
11 commence incremental service to the Lincoln plant
12 effective February 1, 2020, on an interim basis, at
13 the rates included in the second revised agreement.
14 The Commission granted the request and directed the
15 Public Staff to review the second revised
16 agreement.

17 In June 2020, the Public Staff filed its
18 recommendations as to the second agreement, and
19 Piedmont and DEC filed comments on the Public
20 Staff's recommendations.

21 In July 2020, the Commission issued an
22 order allowing Piedmont to continue to serve DEC at
23 the Lincoln plant under the second revised
24 agreement and subject to the conditions in the

1 Commission's orders until further order of the
2 Commission.

3 All right. On February 19, 2021,
4 Piedmont filed its notice of intent to file a
5 general rate case application.

6 On March 16, 2021, the Commission issued
7 an order consolidating the Lincoln agreement docket
8 and the rate case docket, finding that Piedmont's
9 general rate case is the proper forum to decide the
10 issue of rates and terms by which Piedmont may
11 provide natural gas service to DEC's Lincoln plant.

12 On March 19, 2021, Piedmont filed an
13 application for modifications to its existing
14 energy efficiency programs and for the approval of
15 new programs in Docket G-9, Sub 786.

16 On March 22nd, Piedmont filed its
17 application with the Commission seeking authority
18 to increase its rates, charges and tariffs
19 applicable to its service in North Carolina. In
20 the application, Piedmont sought a 10.4 percent
21 increase in annual total revenues to recover its
22 costs. Piedmont stated that its increase is
23 necessary primarily due to its investment of
24 capital to expand its gas distribution system to

1 better serve its current and future customers, and
2 to comply with federal pipeline safety and
3 integrity requirements.

4 Along with its application, Piedmont
5 filed the testimony of its expert witnesses Bowman,
6 Couzens, D'Ascendis, Menhorn, Newlin, Powers,
7 Weintraub, and Weisker.

8 On April 13, 2021, the Commission issued
9 an order establishing this general rate case and
10 suspending the rates.

11 On April 19, 2021, Piedmont filed the
12 direct testimony and exhibits of witnesses
13 DeCoursey and Barkley.

14 Also on April 19th, the Commission
15 issued an order finding the rate case to be the
16 proper forum to address Piedmont's energy
17 efficiency programs and therefore consolidating the
18 energy efficiency docket and the rate case docket.

19 On May 17th, the Commission issued an
20 order scheduling investigation and hearings,
21 establish intervention and testimony due dates and
22 discovery guidelines, and requiring public notice
23 in which the Commission scheduled both public
24 witness and expert witness hearings; establish

1 deadlines for the submission of petitions to
2 intervene, the filing of intervenor testimony, and
3 Piedmont's rebuttal testimony; required the
4 provision of appropriate public notice; and
5 mandated compliance with certain discovery
6 guidelines.

7 The intervention and participation of
8 the Public Staff in this proceeding is recognized
9 pursuant to North Carolina General Statute Section
10 62-15(d) and Commission Rule R1-19.

11 On August 2, 2021, the North Carolina
12 Attorney General's Office provided notice of its
13 intervention pursuant to North Carolina General
14 Statute Section 62-20. Further, by various orders,
15 the Commission has allowed the intervention of the
16 following: The Fayetteville Public Works
17 Commission, the Carolina Utilities Customer
18 Association Incorporated, the Carolina Industrial
19 Group for Fair Utility Rates IV, and Nucor
20 Steel-Hertford. Duke Energy Carolinas, having been
21 granted intervention in the docket pertaining to
22 the Lincoln plant, has been allowed by the order of
23 the Commission to participate in this consolidated
24 proceeding.

1 In accordance with the scheduling order,
2 the Commission held two public hearings, both
3 remotely, on July 14th, for the purpose of hearing
4 from Piedmont's customers.

5 On July 28th, Piedmont filed revised
6 versions of the schedules required by Commission
7 Rule R1-17 reflecting updates to its rates,
8 revenues, rate base, cost of capital, and expenses
9 through June 30, 2021, as well as the supplemental
10 testimony and exhibits of witnesses Bowman and
11 Couzens.

12 On August 11, 2021, the Public Staff
13 filed the direct testimony and exhibits of
14 witnesses Coleman, Feasel, Floyd, Hinton, Metz,
15 Perry, Patel, as well as the joint testimony of
16 Singer and Williamson; DEC filed the direct
17 testimony of witness Mitchell; CUCA filed the
18 direct testimony and exhibits of witness O'Donnell;
19 and CIGFUR IV filed the direct testimony and
20 exhibits of witness Phillips. The AGO,
21 Fayetteville Public Works Commission, and Nucor did
22 not file testimony or exhibits of any expert
23 witnesses.

24 On August 16th, CIGFUR IV filed an

1 errata to the direct testimony of witness Phillips,
2 and the Public Staff filed corrections to the
3 testimony of witness Hinton.

4 On August 23rd, Piedmont filed a motion
5 requesting the Commission's approval to substitute
6 witness Kenneth Sosnick as the sponsor of the
7 prepared direct testimony filed by witness
8 DeCoursey. As no party objected to Piedmont's
9 motion, the Commission granted that motion on
10 August 31, 2021.

11 On August 24th, the Public Staff filed
12 the supplemental testimony of its witness Metz.

13 And on August 25th, Piedmont filed the
14 rebuttal testimony of witnesses Barkley, Bowman,
15 Couzens, D'Ascendis, Long, Menhorn, and Newlin.

16 On August 26th, the Public Staff filed
17 the amended confidential testimony and exhibits of
18 its witness Perry.

19 And on September 2nd, the Company filed
20 a notice of settlement and motion to delay the
21 hearing, putting the Commission on notice that
22 certain parties had settled a number of issues in
23 principal, and requesting that the expert witness
24 hearing be delayed until Thursday, September 9th,

1 at 9 a.m. to allow Piedmont and the Public Staff to
2 finalize and file a formal stipulation of
3 settlement and the supporting testimony and
4 exhibits. This request was granted by order of the
5 Commission issued on September 3rd.

6 On September 7th, the Company filed the
7 stipulation of partial settlement and exhibits
8 thereto between Piedmont, the Public Staff, CUCA,
9 CIGFUR IV; as well as the settlement testimony of
10 Kally Couzens, the settlement testimony and
11 exhibits of Powers, the settlement testimony and
12 exhibit of D'Ascendis, and the supplemental
13 testimony of Adam Long.

14 Also on September 7th, the Public Staff
15 filed the settlement testimony and exhibit of
16 Hinton and the supplemental and settlement
17 testimony and exhibit of its witness Perry.

18 On August 30th, in light of the high
19 transmission rate and spread of the delta variant
20 of the coronavirus, the Commission issued an order
21 holding that the expert witness hearing would be
22 held remotely by way of Webex.

23 All right. Before we get started today,
24 I must make a few points on the record in light of

1 the fact that this hearing is being conducted
2 remotely. This hearing has been made accessible to
3 the public by way of a link to a video stream
4 that's provided on the Commission's website.

5 As evidenced by filings made in this
6 docket, all parties have consented to holding this
7 expert witness hearing remotely.

8 In the interest of ensuring the
9 efficient use of hearing time and minimizing the
10 potential for technical difficulties, the
11 Commission has afforded the parties an opportunity
12 for a technical check-in in order to verify that
13 they're able to access the remote technology
14 utilized by the Commission today for this hearing.

15 Due to the fact that this hearing is
16 being held remotely, parties have been asked to
17 avoid the use of confidential information to the
18 greatest extent possible. In the event that a
19 party must reference confidential information
20 during this hearing, we will leave the video
21 conference and join a teleconference line. The
22 party whose confidential information is discussed
23 is responsible for ensuring that only those parties
24 who have executed confidentiality agreements are on

1 the teleconference line. When the discussion of
2 confidential information is complete, we'll leave
3 the teleconference line and go back on to the video
4 conference.

5 Finally, and as a last request, I'll ask
6 that all hearing participants keep their
7 microphones muted, unless they're actively
8 addressing the Commission in order to avoid
9 interference with the court reporter's ability to
10 transcribe this proceeding. Additionally, when you
11 are addressing the Commission, you must appear on
12 camera.

13 Finally, if you must speak or speak out
14 of turn, please identify yourself first for
15 purposes of the record and so that the court
16 reporter knows who you are and so that I know who
17 you are.

18 All right. With that, we are ready for
19 appearances of the parties, and I will call upon
20 counsel to announce their appearances for the
21 record, and we'll begin with Piedmont.

22 All right, Mr. Jeffries?

23 MR. JEFFRIES: Good morning,
24 Chair Mitchell, members of the Commission. My name

1 is Jim Jeffries. I'm with the law firm of McGuire
2 Woods, and I'm here on behalf of Piedmont Natural
3 Gas today. Joining me in this docket -- in this
4 case today are Mr. Brian Heslin and
5 Ms. Amanda Demopoulos, who are both in-house
6 counsel with Duke Energy Corporation. Thank you.

7 CHAIR MITCHELL: All right. Good
8 morning, Mr. Jeffries, to you and your team.

9 All right. Public Staff?

10 MS. JOST: Good morning. Megan Jost
11 with the Public Staff representing the using and
12 consuming public. Appearing with me this morning
13 are Elizabeth Culpepper and Lucy Edmondson.

14 CHAIR MITCHELL: All right. Good
15 morning, Ms. Jost, to you and your team.

16 All right. Attorney General's Office?

17 MS. TOWNSEND: Good morning. This is
18 Teresa Townsend. In addition to Peggy Force, we
19 represent the using and consuming public and the
20 citizens of this state in this matter of public
21 interest.

22 CHAIR MITCHELL: All right. Good
23 morning, Ms. Townsend and good morning, Ms. Force.

24 All right. DEC?

1 MR. KAYLOR: Good morning,
2 Chair Mitchell. Robert Kaylor appearing on behalf
3 of Duke Energy Carolinas and the Lincoln agreement
4 docket which is the Sub 22 docket. I was off the
5 air for a while, so I don't know what happened.

6 CHAIR MITCHELL: All right. Good
7 morning, Mr. Kaylor, I see you and hear you now, so
8 you are connected.

9 All right. Fayetteville Public Works
10 Commission?

11 MR. WEST: Good morning, Madam Chair.
12 James West appearing on behalf of the Fayetteville
13 Public Works Commission, and joining me today is
14 Justin Doty, who is our staff counsel. This is his
15 first appearance at the North Carolina Utilities
16 Commission. He was sworn in just last week to the
17 North Carolina State Bar.

18 CHAIR MITCHELL: All right. Good
19 morning, Mr. West. And, Dustin, where are you?
20 Would you raise your hand, please, so I can see
21 you?

22 MR. DOTY: Yes, Chair Mitchell, I'm
23 here.

24 CHAIR MITCHELL: There you are. Good

1 morning and welcome.

2 MR. DOTY: Good morning, thank you.

3 CHAIR MITCHELL: And congratulations for
4 being newly sworn in. Welcome to the profession.

5 All right. CUCA?

6 MR. SCHAUER: Good morning,
7 Chair Mitchell. Craig Schauer on behalf of the
8 Carolina Utility Customers Association.

9 CHAIR MITCHELL: All right. Good
10 morning, Mr. Schauer.

11 CIGFUR?

12 MS. CRESS: Good morning,
13 Chair Mitchell. Christina Cress with the law firm
14 of Bailey & Dixon appearing on behalf of CIGFUR IV.

15 CHAIR MITCHELL: All right. Good
16 morning, Ms. Cress. And I don't believe that Nucor
17 is going to make an appearance this morning, but I
18 will ask out of abundance of caution. I'm not
19 hearing counsel for Nucor.

20 All right. Counsel, any preliminary
21 matters we need to take up or questions that
22 you-all have before we get started this morning?

23 MR. JEFFRIES: Chair Mitchell, this is
24 Jim Jeffries. I think we have just a couple of

1 preliminary matters. As the Chair is aware, a
2 settlement was filed on Tuesday in this docket, and
3 as a result of that settlement -- first of all, the
4 Company would like to express its appreciation for
5 all the hard work that all the parties put in to
6 reaching that settlement. We appreciate that,
7 particularly over -- a lot of that happened over
8 the long holiday weekend, so I just wanted to
9 express our appreciation for that.

10 But as a result of the settlement, it's
11 impacted the hearing in two ways, from the
12 Company's perspective. The first is that there's
13 been a substantial reduction in the amount of
14 reserved cross examination time for most of the
15 witnesses, given that the majority of the parties
16 to the settlement -- or the majority of the parties
17 in the case are stipulating parties to the
18 settlement and have waived cross pursuant to the
19 settlement.

20 The second is it's allowed the Company
21 to schedule and combine direct, rebuttal,
22 supplemental, and settlement testimony for a number
23 of its witnesses, which -- and we will -- this is
24 all reflected on the revised witness list that was

1 filed yesterday, but we wanted to bring it up with
2 the Chair and make sure that our proposed approach
3 was acceptable.

4 CHAIR MITCHELL: All right.

5 Mr. Jeffries, I'm not hearing anyone objecting. I
6 haven't heard any of the parties object to
7 Piedmont's proposal. I'm okay with it. In the
8 interest of ensuring an orderly record here, let's
9 be careful and get our testimony introduced by
10 witness such that, you know, you make sure for each
11 witness, please have -- please be sure to introduce
12 all testimony that that witness has sponsored as by
13 witness, if that makes sense.

14 MR. JEFFRIES: It does.

15 CHAIR MITCHELL: Okay. That will help
16 me, that will help our court reporter, and that
17 hopefully will help you-all when you go back into
18 the record.

19 MR. JEFFRIES: I think Mr. Heslin may
20 have a preliminary matter he wants to bring to your
21 attention.

22 CHAIR MITCHELL: Mr. Heslin?

23 MR. HESLIN: Thank you, Chair Mitchell.

24 One other matter is the consumer statement that was

1 filed with the Commission on September 2nd in this
2 docket is a letter purportedly from a Piedmont
3 employee dated August 26th. We were informed that
4 the Commission wanted to address this statement
5 possibly in the hearing. We wanted just to inform
6 you that our second witness, Mr. Brian Weisker, is
7 prepared to provide direct testimony on this
8 statement, but we wanted to check with you to see
9 if it's still the Commission's desire to address
10 today at the hearing or if there's another way we
11 want to address that statement.

12 CHAIR MITCHELL: Thank you, Mr. Heslin.
13 Let's go ahead and have your witness address the
14 letter in testimony this morning. And we do have
15 questions for the witness on the letter as well,
16 so --

17 MR. HESLIN: Very well.

18 CHAIR MITCHELL: -- we'll move forward
19 as planned. Okay?

20 All right. Counsel, any other questions
21 before we get started?

22 (No response.)

23 CHAIR MITCHELL: Okay. Well, you-all
24 have been through this drill before of a rate case

1 being held over video conference technology. I
2 thought that we would be past this by this point in
3 time, but here we are. We will -- we will take
4 breaks as we typically do for our court reporter,
5 and so that we can all step away from the computer
6 for a minute. We will go for about 90 minutes to
7 two hours, depending on where we are with
8 testimony, and then we will take a break. And then
9 we will also take a break for lunch. And we will
10 go from there, depending on where we are with the
11 hearing.

12 We will -- to the extent that any party
13 needs to utilize examination exhibits that have
14 been provided in advance of this proceeding, we
15 will -- we all have those exhibits and we'll use
16 them as necessary.

17 Please do your best to minimize
18 interference with our court reporter's ability to
19 hear and my ability to hear. Since we are working
20 remotely, you-all know that, when you take yourself
21 off mute, it can cause strange things to happen
22 with the audio. So just be mindful of the mute
23 button.

24 Okay. With that, I'll give y'all one

1 last chance to raise any questions or concerns
2 before we start.

3 (No response.)

4 CHAIR MITCHELL: All right. I'm not
5 hearing any, so, Mr. Jeffries, Mr. Heslin, the case
6 is with you.

7 MR. HESLIN: Thank you, Chair Mitchell,
8 Piedmont calls Sasha Weintraub.

9 MR. WEINTRAUB: Good morning.

10 CHAIR MITCHELL: All right.
11 Mr. Weintraub, would you raise your right hand,
12 please, sir.

13 Whereupon,

14 ALEXANDER J. WEINTRAUB,
15 having first been duly affirmed, was examined
16 and testified as follows:

17 CHAIR MITCHELL: All right, Mr. Heslin.

18 MR. HESLIN: Thank you.

19 DIRECT EXAMINATION BY MR. HESLIN:

20 Q. Mr. Weintraub, could you please state your
21 full name and business address for the record.

22 A. Sure. My name is Alexander J. Weintraub. I
23 am also known as Sasha Weintraub. I work at 4720
24 Piedmont Row, Charlotte, North Carolina.

1 Q. And for who -- whom do you work?

2 A. I'm the senior vice president for the natural
3 gas business unit at Duke Energy.

4 Q. Are you the same Sasha Weintraub that
5 prefiled testimony in this proceeding on
6 March 22, 2021, consisting of 13 pages?

7 A. I am.

8 Q. And was that testimony prepared by you or at
9 your direction?

10 A. It was.

11 Q. And do you have any corrections to your
12 prefiled testimony?

13 A. I do not.

14 Q. If I asked you the same questions that are
15 set forth in your prefiled testimony while you're on
16 the stand today, would your answers be the same?

17 A. They would, yes.

18 MR. HESLIN: Chair Mitchell, at this
19 point, we ask that Mr. Weintraub's prefiled direct
20 testimony dated March 22, 2021, be entered into the
21 record as if given orally from the stand.

22 CHAIR MITCHELL: All right. Hearing no
23 objections to the motion, the direct testimony of
24 Piedmont witness Weintraub filed in the docket on

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March 22, 2021, consisting of 14 pages, shall be copied into the record as if delivered orally from the stand.

(Whereupon, the prefiled direct testimony of Alexander J. Weintraub was copied into the record as if given orally from the stand.)

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Sep 14 2021

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Direct Testimony
of
Sasha Weintraub**

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

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

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

4 **Q. By whom and in what capacity are you employed?**

5 A. I am Senior Vice President of the Natural Gas Business Unit at Duke Energy
6 Corporation (“Duke Energy”). In that role, I am responsible for all utility
7 operations and business activities of Piedmont Natural Gas Company, Inc.
8 (“Piedmont” or the “Company”).

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

10 A. I received a bachelor’s degree in Mechanical Engineering from Rensselaer
11 Polytechnic Institute, a master’s degree in Mechanical Engineering from
12 Columbia University and a PhD in Industrial Engineering from North
13 Carolina State University. In 2012, I joined Duke Energy as Vice President
14 of Fuels and Systems Optimization. In 2014, I became Senior Vice
15 President of Customer Solutions. In November 2018, I assumed the role of
16 Senior Vice President and Chief Commercial Officer of the Natural Gas
17 Business Unit and I began my current role leading the Natural Gas Business
18 Unit in October 2019.

19 **Q. Have you previously testified before the North Carolina Utilities
20 Commission (“Commission”) or any other regulatory authority?**

21 A. Yes. I have previously testified before the North Carolina Utilities
22 Commission on a number of occasions.

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

1 A. My testimony supports the Petition filed by Piedmont on March 22, 2021,
2 seeking the establishment of a general rate proceeding in this docket. In
3 this testimony, I will provide a brief description of Piedmont and its
4 business, summarize our request for rate relief and the reasons behind such
5 request, and provide an overview of the other significant aspects of our
6 business and filing.

7 **Q. Please describe Piedmont and its business.**

8 A. Piedmont is a wholly-owned subsidiary of Duke Energy Corporation with
9 its headquarters located at 4720 Piedmont Row Drive, Charlotte, North
10 Carolina. The Company is principally engaged in the natural gas
11 distribution business and, as of December 31, 2020, we served more than
12 1.1 million customers in three states, including approximately 775,000 in
13 North Carolina, 154,000 in South Carolina and 193,000 in Tennessee. We
14 are fortunate to serve a growing service territory in North Carolina and
15 anticipate continued customer growth for our system in this State of
16 approximately 2% annually for the foreseeable future. The significant
17 capital investments that drive the need for this general rate case facilitate
18 Piedmont's ability to meet its obligation to serve this growing customer
19 base under all weather conditions.

20 **Q. Please describe Piedmont's gas distribution business in North Carolina.**

21 A. Piedmont serves customers in sixty-six (66) counties across a number of
22 cities, towns, and communities in North Carolina including Charlotte,
23 Greensboro, Winston-Salem, High Point, Burlington, Wilmington,

1 Hickory, Salisbury, Reidsville, Indian Trail, Fayetteville, Goldsboro,
2 Tarboro, Elizabeth City, New Bern, Rockingham, and Spruce Pine. We also
3 provide service to the municipal gas systems of the cities of Wilson,
4 Greenville, and Rocky Mount, and military facilities in Fayetteville and
5 Jacksonville, as well as multiple gas-fired electric generation facilities
6 located throughout the State, many of which are operated by either Duke
7 Energy Progress, LLC (“DEP”) or Duke Energy Carolinas, LLC (“DEC”).

8 **Q. What are Piedmont’s most important business goals?**

9 A. We continuously strive to provide safe and reliable natural gas service to
10 our customers at reasonable rates coupled with excellent customer service.
11 Customer, public, and employee safety are absolutely critical to everything
12 we do. We also want our current and future firm customers to feel certain
13 that we will be ready to serve them on the coldest winter day. We want our
14 customers to experience great customer service with each and every
15 interaction. Finally, the Company seeks to exemplify excellent
16 environmental stewardship.

17 **Q. Does Piedmont receive feedback on its customer service?**

18 A. Yes. We are rated on our provision of customer service in several ways,
19 including ratings from J.D. Power and Cogent Reports.

20 **Q. What can you report about Piedmont’s customer service scores?**

21 A. Piedmont has continued to receive positive customer satisfaction and
22 trusted brand scores from J.D. Power and Cogent Reports. Our most recent
23 score for J.D. Power is in the top quartile and we are ranked 6th out of 40

1 national natural gas utilities by Cogent. We also monitor customer
2 satisfaction frequently by surveying our customers and using a net promoter
3 score that includes customers that rate us highly and those that did not.
4 Piedmont received its highest net promoter scores ever during 2020. The
5 Company also reports monthly performance metrics concerning its call
6 center to this Commission. The Company committed several years ago to
7 the Commission that it would answer 80% of incoming calls within twenty
8 (20) seconds or less, which is an exceedingly high standard for call centers
9 to consistently achieve. Piedmont's commitment to that goal has never
10 wavered. In fact, that goal was exceeded during the test period, with
11 approximately 92% answered within the twenty second goal.

12 **Q. What is Piedmont seeking in this proceeding?**

13 A. In this proceeding, Piedmont seeks Commission authorization to: (1) update
14 and increase our rates and charges to account for changes in rate base,
15 operating expenses, and capital structure that have occurred since our last
16 general rate case proceeding (including the roll-in of prior capital
17 investments under our Integrity Management Rider mechanism); (2) extend
18 our Integrity Management Rider mechanism, which has been critical to our
19 ongoing efforts to comply with federal pipeline safety and integrity
20 requirements; (3) amortize and collect certain deferred environmental,
21 pipeline integrity, and other expenses that have accrued since Piedmont's
22 last general rate case; (4) update and revise Piedmont's existing service
23 regulations and tariffs; and (5) expand our efforts in operating customer

1 programs that promote their efficient use of natural gas by including the
2 proposed removal of associated program costs from base rates and the
3 implementation of an Energy Efficiency Program rider for cost recovery.
4 These matters are discussed in more detail either later in my testimony or in
5 the testimony of other Company witnesses.

6 **Q. What else is Piedmont seeking to do in this case?**

7 A. In addition to our requests for specific relief, as described above, we will
8 also: (1) provide updates to the Commission on our prior and projected
9 capital investment activities to comply with federal safety mandates; (2)
10 update the Commission on the status and necessity of the Robeson County
11 Liquefied Natural Gas (“LNG”) Project and certain other critical
12 infrastructure projects the Company seeks to recover in this proceeding.
13 These critical infrastructure projects support serving our growing customer
14 base reliably during extreme weather conditions; (3) discuss the impact of
15 this filing on our customers and measures that we are taking to assist
16 customers; and (4) report on our efforts to reduce methane emissions
17 associated with the production, transportation, and distribution of natural
18 gas.

19 **Q. What is the scope of the rate changes you are requesting in this rate**
20 **case?**

21 A. The Petition filed by the Company proposes rate changes that would
22 produce an overall increase in annual revenues of approximately \$109
23 million. This approximate 10% increase in annual revenues is necessary to

1 cover the costs, including a reasonable return on investment, of providing
2 safe, adequate and reliable natural gas service to the Company's customers
3 in North Carolina.

4 **Q. Why is it necessary to file this rate case?**

5 A. This rate filing is prompted by an insufficient return earned during the test
6 period ended December 31, 2020 that was driven by several factors. First,
7 since our last general rate case, Piedmont has continued to make substantial
8 capital investments in our system in order to (1) maintain and expand our
9 gas distribution system for the benefit of our customers in order to
10 accommodate system growth and service reliability, and (2) comply with
11 ongoing federal pipeline safety and integrity requirements. With respect to
12 the former factor, one of the primary drivers for this case is the
13 approximately \$223 million investment in the North Carolina allocated
14 portion of the Robeson County LNG plant as well as other critical
15 infrastructure projects that are necessary to provide service to our growing
16 customer base under extreme weather conditions. The total amount of
17 capital invested since our last rate case is approximately \$1.65 billion, \$1.15
18 billion of which supported system growth and \$.5 billion expended in
19 support of federal pipeline safety mandates. This rate case will allow us to
20 roll these amounts into our base rates in order to facilitate our ability to earn
21 a reasonable return on these investments.

22 I think it is important to note the customer benefits that result from
23 our ongoing financial stability. Historically, because of its financial

1 position, Piedmont has had the financial strength and flexibility necessary
2 to fund its long-term capital requirements, as well as to meet short-term
3 liquidity needs, at an economical cost to customers. As important as low
4 cost is, ready access to capital is critical to serving our customers. Such
5 access to capital is most assured for companies who have strong financial
6 positions, strong investment-grade credit ratings and adequate cash flow
7 generation to meet obligations as they become due. The financial flexibility
8 that comes from the ability to access cost-effective capital in all market
9 conditions serves the best interests of our customers.

10 **Q. Has the Company closely managed its operation and maintenance**
11 **expenses since its last general rate case filing in 2019?**

12 A. Yes. Our operation and maintenance expenses proposed by Ms. Bowman
13 for recovery in this proceeding exceed the amount allowed by the
14 Commission in its order in Docket G-9, Sub 743 by less than 1%. Our
15 management team and employees have worked to implement technology-
16 based improvements and more efficient procedures in order to hold our
17 expense level unchanged during a period of strong customer growth and
18 capital additions. An example of this includes improved website
19 functionality and customer notifications that enhance customer satisfaction
20 while simultaneously lowering the number of calls received by our call
21 center. The Company has also emphasized customer-related issue
22 resolution by its customer facing personnel, allowing faster, more personal,
23 and less costly responses. Overall, our constant focus on expense

1 containment over the past two years has provided benefits for customers in
2 this proceeding.

3 **Q. Please identify the other witnesses that will offer testimony on behalf of**
4 **Piedmont in this proceeding.**

5 A. Brian Weisker, Senior Vice President, Chief Operations Officer Natural
6 Gas Business, will testify as to the requirements of federal pipeline safety
7 and integrity regulations and the incurred and projected costs of compliance
8 with those regulations along with major system enhancements needed to
9 provide reliable service to Piedmont's growing customer base. Karl
10 Newlin, Senior Vice President, Corporate Development and Treasurer, will
11 testify on our pro forma capital structure, cost of debt, and provide further
12 perspective on the benefits to customers resulting from Piedmont's ongoing
13 financial stability and strong credit ratings. Pia Powers, Managing Director,
14 Gas Rates & Regulatory, will testify regarding our revenue request, its
15 impact on customers, our robust efforts to assist customers during the
16 pandemic and our proposed rider to recover costs associated with energy
17 conservation programs. Quynh Bowman, Director Gas Rates & Regulatory
18 Strategy, will testify in support of our cost of service and rate base, revenue
19 requirement deficiency, G-1 compliance, and the proposed amortizations of
20 deferred assets. Kally Couzens, Manager, Rates & Regulatory Strategy,
21 will testify regarding our pro forma revenue calculations and proposed
22 rates. In addition to these Company witnesses, we are also filing the

1 testimonies of Dylan D'Ascendis on the cost of equity and Cynthia
2 Menhorn on class cost of service and rate design.

3 **Q. Can you please provide a little more context to Piedmont's rate case**
4 **filing in this docket?**

5 A. Yes. This rate filing occurs in the context of four significant influences
6 impacting the natural gas industry. These influences are the maturing
7 development of market access to plentiful new sources of shale gas, the
8 development of corresponding environmental opposition to the extraction
9 method for such supplies and opposition to the construction of infrastructure
10 necessary to deliver such supplies to end-use markets, substantial and
11 increasing federal regulations around pipeline safety and integrity that are
12 requiring unprecedented capital investment in existing natural gas
13 infrastructure, and the COVID-19 pandemic from which North Carolina,
14 and the nation as a whole, is beginning to emerge. We envision further
15 economic recovery during the period of time between the date of our filing
16 and the date of our anticipated rate adjustment in the fall. The first factor
17 has allowed us to maintain natural gas rates for our customers at levels that
18 are comparable with prior periods even in the face of the substantial and
19 ongoing capital investment required by the third factor, and the negative
20 economic and operational implications of the second and fourth factors.

21 The continuing benefits of shale natural gas production have
22 allowed us to comply with federal integrity management requirements and
23 otherwise grow our system while preserving the essential affordability of

1 natural gas service for our customers which will be a benefit to customers
2 coming out of the current pandemic.

3 **Q. How did Piedmont respond to the pandemic?**

4 **A.** Piedmont responded by voluntarily instituting many of the measures that
5 the Commission subsequently mandated in terms of customer disconnection
6 policy and the assessment of late payment and other fees. The Company's
7 call center representatives have remained attentive to customers' needs by
8 offering flexible payment arrangements options and providing contact
9 points for agencies with funds to assist customers with payment of their
10 utility bills. Furthermore, the Company has and continues to proactively
11 reach out to customers through multiple communication channels to make
12 sure they understand the full suite of options available to support them. The
13 Company remains committed to continuing its practice of working
14 diligently to limit service disconnections by making flexible payment
15 arrangements available to customers in need. Piedmont witness Powers
16 provides additional detail on these measures.

17 In addition, Piedmont witness D'Ascendis recommends an ROE in
18 the lower portion of his range in light of uncertain economic conditions and
19 Piedmont witness Bowman notes that the Company is proposing to remove
20 the burden of credit card fees from customers who select that payment
21 method.

22 **Q. Did Piedmont propose adjustments to its cost of service to address**
23 **impacts of the pandemic?**

1 A. Generally, we did not propose any specific adjustments based upon our
2 belief that the quantification of known and measurable variances
3 attributable to the pandemic is difficult for our particular company.
4 Further, we believe that if such quantification were readily available, it
5 would not result in a material adjustment to the test period cost of service
6 based upon our financial performance. Certain cost of service items
7 increased while others declined from levels experienced prior to the
8 pandemic. The duration of the pandemic and the extent to which the
9 Company's cost of service will be impacted by the pandemic in the future
10 is also not currently determinable. The primary exception was the removal
11 from operating expenses of a stipend paid to certain employees during the
12 test period to help with dependent care hardships. The Company has not
13 determined that such stipends will be paid in future periods and therefore
14 the associated cost was removed from test period operating expenses.

15 **Q. Did Piedmont request any cost deferrals associated with the pandemic**
16 **during the test period?**

17 A. No, we did not petition the Commission for any such deferral and believe
18 the test period, with the exception of the stipend, represents a reasonable
19 going level of operating expenses and revenues.

20 **Q. Are there any other subjects related to Piedmont's ongoing provision**
21 **of natural gas sales and transportation service to its North Carolina**
22 **customers that you would like to discuss?**

1 A. Yes. I would like to briefly mention that Piedmont is undertaking steps to
2 eliminate methane leakage from its operations and facilities as discussed in
3 more detail in the direct testimony of Company witness Weisker. Excellent
4 environmental stewardship is critical to the ongoing success of Piedmont
5 and the natural gas industry, and our goal to reach a net zero carbon
6 emission level by 2030 reflects our commitment to the environment.

7 **Q. Can you please address the Robeson County LNG Facility?**

8 A. Yes. Mr. Weisker addresses this facility in greater detail in his direct
9 testimony but in brief our construction of the Robeson County LNG facility
10 was necessary in order to ensure that Piedmont is able to continue to provide
11 firm natural gas distribution service to our customers under extreme cold
12 weather conditions, known as a design day because we design our system
13 to serve reliably on such day. Growing demand on our system causes us to
14 continually evaluate the adequacy of our systems to serve heat sensitive,
15 high-priority customers on the coldest day we may incur. The Robeson
16 County LNG facility will provide peaking service that will ensure our
17 continued ability to serve these customers under such conditions in a
18 manner consistent with Piedmont's longstanding best cost approach
19 employed to acquire natural supply, pipeline capacity, and associated
20 system infrastructure. This facility will provide storage on our system at a
21 critical location and that is solely under Piedmont's control. This will
22 protect our customers from potentially life-threatening situations as were
23 experienced earlier this year in Texas due to record cold temperatures. I

1 also note that our Pipeline Services team constantly evaluates the resources
2 required to ensure the provision of firm service on a design day. The
3 additional design day capacity, on-system reliability, and operational
4 flexibility provided by Robeson LNG allows Piedmont the opportunity to
5 evaluate existing upstream storage and capacity contracts that deliver into
6 the interstate pipeline system for the purpose of releasing a portion of the
7 contracts that will be replaced with Robeson LNG. The potential release of
8 a portion of these upstream storage or capacity contracts may serve to
9 reduce demand gas costs paid by our customers.

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

11 **A. Yes.**

1 Q. And, Mr. Weintraub, have you prepared a
2 summary of your prefiled testimony?

3 A. I have.

4 MR. HESLIN: And, Chair Mitchell, before
5 Mr. Weintraub reads his summary, there were some
6 revisions made to his summary to add a little bit
7 more detail since it was filed last week. We're
8 happy to provide the court reporter with another
9 written document if that would be easier, but he
10 will be reading something that's a little different
11 than what was filed last week.

12 CHAIR MITCHELL: Okay. All right.
13 Well, please do get the revised summary to our
14 court reporter as soon as you can, and you may
15 proceed with your summary, Mr. Weintraub.

16 THE WITNESS: Thank you.

17 My name is Sasha Weintraub. I am the
18 senior vice president of the natural gas business
19 unit at Duke Energy Corporation. I prefiled direct
20 testimony in this docket on March 22, 2021, in
21 support of Piedmont's application for a general
22 rate increase.

23 My prefiled direct testimony provides a
24 brief description of Piedmont and its business,

1 summarizes the Company's request for rate relief
2 and the reasons behind such request, and provides
3 an overview of the other significant aspects of
4 Piedmont's business and filing. My prefiled direct
5 testimony also identifies the other witnesses that
6 are offering testimony on behalf of Piedmont in
7 this proceeding.

8 In my prefiled direct testimony, I
9 explain that the Company serves more than
10 1.1 million customers in three states.
11 Specifically in North Carolina, the Company serves
12 775,000 customers in 66 counties across the state.
13 The Company also provides service in North Carolina
14 to the municipal gas systems of three cities,
15 military facilities in two cities, and multiple
16 gas-fired electric generation facilities. I
17 explain that the Company anticipates continued
18 customer growth for its North Carolina system at a
19 rate of approximately 2 percent annually for the
20 foreseeable future.

21 Additionally, my prefiled direct
22 testimony lists several factors that support
23 Piedmont's decision to file this rate case. For
24 example, I explain that one of the primary drivers

1 for this rate case is the investment in the
2 North Carolina allocated portion of the Robeson
3 liquefied natural gas, LNG, facility, as well as
4 other critical infrastructure projects necessary to
5 serve the Company's growing customer base under all
6 weather conditions.

7 My prefiled direct testimony also
8 provides contextual information surrounding
9 Piedmont's rate case filing. I explain that this
10 rate case filing occurs in the context of the
11 following four significant influences impacting the
12 natural gas industry.

13 One, the maturing development of market
14 access to new sources of shale gas; two, the
15 development of corresponding environmental
16 opposition to the extraction method and
17 construction of infrastructure for these new
18 sources of shale gas; substantial and increasing
19 federal regulations concerning pipeline safety and
20 integrity; and four, the COVID-19 pandemic.

21 Finally, my prefiled direct testimony
22 explains how the Robeson LNG facility is
23 particularly important to Piedmont and its
24 continuing ability to provide safe and reliable

1 service to Piedmont's customers.

2 This concludes the summary of my
3 prefiled direct testimony.

4 MR. HESLIN: Chair Mitchell,
5 Mr. Weintraub is available for questions by
6 Commissioners.

7 CHAIR MITCHELL: All right. Let me
8 check in with my colleagues to see if any has
9 questions for Mr. Weintraub.

10 (No response.)

11 CHAIR MITCHELL: All right. I'm not
12 hearing any questions for you, Mr. Weintraub.
13 Looks like you were off easy today. Thank you,
14 sir, for your testimony, and you may be excused.

15 THE WITNESS: Thank you, Chair.

16 CHAIR MITCHELL: All right. Piedmont,
17 you may call your next witness.

18 MR. HESLIN: Piedmont calls
19 Brian Weisker to the stand.

20 CHAIR MITCHELL: All right.
21 Mr. Weisker, would you raise your right hand,
22 please, sir.

23 Whereupon,

24 BRIAN WEISKER,

1 forth in your prefiled testimony while you were on the
2 stand today, would your answers be the same?

3 A. Yes, they would.

4 MR. HESLIN: Madam Chair, at this point,
5 we would ask that Mr. Weisker's prefiled testimony
6 be entered in the record as if given orally from
7 the stand, and also ask that his exhibits be marked
8 as identified BRW-1 and BRW-2.

9 CHAIR MITCHELL: All right. Mr. Heslin,
10 hearing no objection to your motion, the direct
11 testimony of witness Weisker filed in this docket
12 on March 22, 2021, consisting of 17 pages shall be
13 copied into the record as if delivered orally from
14 the stand. The two exhibits shall be marked as
15 they were when prefiled.

16 (Exhibits BRW-1 and BRW-2, were identified
17 as they were marked when prefiled.)

18 (Whereupon, the prefiled direct
19 testimony of Brian Weisker was copied
20 into the record as if given orally from
21 the stand.)

22

23

24

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Direct Testimony and Exhibits
of
Brian R. Weisker**

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

1 **Q. Mr. Weisker, please state your name and business address.**

2 A. My name is Brian R. Weisker. My business address is 4720 Piedmont
3 Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am a Senior Vice President and Chief Operations Officer, Natural Gas
6 Business for Duke Energy Corporation (“Duke Energy”). In this capacity,
7 I am responsible for the operation of Piedmont Natural Gas Company
8 Inc.’s (“Piedmont” or “Company”) natural gas system.

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

10 A. I received a Bachelor of Sciences degree from the United States Naval
11 Academy in 1994 and an MBA degree from Tulane University in 2001.
12 From 1996 through 2002, I worked in the United States Navy as a
13 Division Officer, an Assistant Professor of Naval Science and as a
14 Navigation/Operations Department Head. From 2002 through 2006, I
15 worked at Cinergy as a Manager. In 2006, I joined Duke Energy as a
16 Station Manager. In 2014, I became General Manager of Carolina West
17 Outages & Maintenance Services. In 2015, I became Vice President of
18 Coal Combustion Products Operations & Maintenance. In 2018, I became
19 Vice President of Natural Gas Operational Excellence within Duke
20 Energy’s Natural Gas Business Unit. In January 2020, I assumed my
21 current role as Senior Vice President and Chief Operating Officer of Duke
22 Energy’s Natural Gas Business Unit.

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

1 A. I have not previously testified before the North Carolina Utilities
2 Commission but have sponsored testimony before the Tennessee Public
3 Utility Commission and the Indiana Utility Regulatory Commission.

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

5 A. My testimony in this proceeding will address: (1) Piedmont's ongoing
6 efforts and activities undertaken in compliance with the requirements of
7 federal pipeline safety regulations promulgated by the Pipeline and
8 Hazardous Materials Safety Administration ("PHMSA"); (2) Piedmont's
9 projected spending on PHMSA compliance and other capital projects over
10 the coming years in light of changing PHMSA regulatory requirements;
11 (3) the importance of Piedmont's Integrity Management Rider ("IMR")
12 mechanism based upon both its past and projected capital expenditures to
13 meet PHMSA's requirements; (4) Piedmont's capital investment in the
14 Robeson County liquefied natural gas ("LNG") project and other large
15 capital projects that contributed to the need for this general rate case; and
16 (5) our continuing efforts to reduce methane leakage from our system.

17 **Q. Are you sponsoring any exhibits to your testimony?**

18 A. Yes. I am sponsoring the following four exhibits:

19 Exhibit __ (BRW-1): PHMSA Expenditures

20 Exhibit __ (BRW-2): Future PHMSA Compliance Expenditures

21 **Q. Were these exhibits prepared by you or under your direction?**

22 A. Yes.

23

1 requirements. A summary of these projects is attached hereto as
2 Exhibit_(BRW-1). We anticipate completing capital projects during the
3 six months ending June 30, 2021 of an additional \$137 million. The
4 activities associated with these capital projects and related operating and
5 maintenance (“O&M”) expenditures include:

6 (1) the analysis and designation of High Consequence Areas
7 (“HCAs”) within Piedmont’s service territory;¹

8 (2) the gathering and review of Piedmont’s archived engineering
9 files on its transmission and distribution facilities;

10 (3) the actual survey and inspection of Piedmont’s transmission
11 lines using smart-pig technology;

12 (4) the mitigation or repair of flaws and defects detected through
13 smart-pig inspections;

14 (5) the removal, repair, replacement, and/or upgrade of certain
15 pipeline segments where necessary to comply with PHMSA
16 regulations either because of administrative documentation
17 deficiencies or because they are non-compliant with current
18 prevailing standards for modern pipeline facilities; and

19 (6) pipeline casing remediation and corrosion control.

20 **Q. Can you elaborate why Piedmont’s compliance with PHMSA**
21 **regulations results in significant costs?**

¹ Piedmont has 280 miles of HCAs in North Carolina.

1 A. Yes. Much of the cost is attributable to the fact that as we engage in a
2 very granular analysis of our transmission facilities through smart-pig
3 inspections, we often find anomalies that needed to be addressed. These
4 are not necessarily leaks, but every time we find a dent, evidence of
5 corrosion, a weak spot in the pipe, or a failure in cathodic protection we
6 are required to analyze the risk associated with the anomaly and devise
7 mitigation measures. We also do not have complete control over the costs
8 of undertaking specific projects since much of the PHMSA compliance
9 work is conducted by outside contractors who bid for the opportunity to do
10 such work. Because the entire industry has ramped up to comply with
11 PHMSA requirements over the last five years or so, competition for
12 qualified contractors has increased, which has had an inflationary impact
13 on the costs of this work.

14 **Q. Have customers benefitted from Piedmont's PHMSA compliance**
15 **work?**

16 A. Yes, and so has the public at large. Our system is much safer and more
17 transparent to us now than it was at the time the IMR was approved.

18 **Q. What has contributed the most to system safety?**

19 A. Any time we identify and remedy a potential physical system
20 vulnerability, system safety is improved when that vulnerability is
21 addressed. Our new electronic systems, as they continue to be
22 implemented, also allow us to manage our compliance activities more
23 efficiently with most of the data we need to engage in such management at

1 our fingertips. This is a vast improvement from the early days of PHMSA
2 compliance when most of our records relating to system construction,
3 maintenance and repair were in paper format.

4 **Q. How does Piedmont prioritize TIMP and DIMP remediation**
5 **requirements for discovered anomalies?**

6 A. Piedmont employs a sophisticated risk analysis system that analyzes the
7 type of anomaly in terms of the consequences of failure versus the
8 likelihood of failure. The Company then prioritizes mitigation measures
9 associated with that anomaly accordingly.

10 **Q. Are you satisfied with the progress Piedmont is making and is**
11 **Piedmont currently compliant with its obligations under PHMSA**
12 **regulations?**

13 A. Yes. The Company has made huge progress in terms of system safety and
14 integrity and we are currently compliant with our obligations under
15 PHMSA. Since our last rate case, we have retrofitted more than 113 miles
16 of our North Carolina transmission system to make it piggable, conducted
17 in-line inspections of more than 301 miles of transmission main and
18 uncovered 667 anomalies, all of which we have repaired or otherwise
19 mitigated.

20 **Q. Does that mean the TIMP and DIMP work that Piedmont has been**
21 **heavily engaged in is coming to an end?**

22 A. No. By design, the TIMP and DIMP requirements of PHMSA are cyclical
23 and iterative. As such, we will continue to engage in the inspection,

1 assessment, remediation, and documentation cycle with respect to both
2 transmission and distribution integrity on an ongoing basis. Resulting
3 capital costs as well as O&M expenses will continue to be difficult to
4 predict because remediation is dependent on the inspection findings.

5 **Piedmont's Anticipated Ongoing PHMSA Expenditures**

6 **Q. Are PHMSA's regulations static or do you anticipate changes to those**
7 **regulations in the future?**

8 A. PHMSA's regulations are subject to revision and change. In fact, they
9 were amended as recently as October 2019 and the industry expects
10 PHMSA to issue two additional rule modifications relating to Gas
11 Transmission Line Safety and Gas Gathering Line Safety soon, possibly as
12 early as this year. These amendments substantially expand obligations in
13 effect and require maximum allowable operating pressure reconfirmation
14 and materials verification for transmission pipelines. In addition, these
15 amendments expand assessments outside of HCAs into Moderate
16 Consequence Areas, significantly increasing the miles of transmission
17 pipeline to be assessed. We anticipate that the PHMSA rules may
18 continue to change over time and experience has shown that they are not
19 likely to become less stringent.

20 **Q. Does Piedmont have a projection of the cost of PHMSA compliance**
21 **activities?**

22 A. Yes. During the three-year period ending December 31, 2023, Piedmont
23 expects to incur approximately \$832 million of capital expenditures

1 related to PHMSA compliance activities. A summary of this activity is
2 attached hereto as Exhibit_(BRW-2).

3 **The Importance of Piedmont's IMR Mechanism and O&M Deferrals for**
4 **PHMSA Compliance**

5 **Q. Please describe the importance of the IMR mechanism to Piedmont's**
6 **efforts to ensure compliance with PHMSA pipeline safety and**
7 **integrity requirements in an economical manner.**

8 A. As shown on Exhibit_(BRW-1) and (BRW-2), these investments in a safe
9 and compliant system have been and will continue to be significant.
10 Because of the accelerated cost recovery opportunity associated with these
11 projects under the IMR, Piedmont does not face the inherent challenges
12 created by the normal regulatory lag associated with these capital projects,
13 allowing the Company to focus on the continuing safety and reliability of
14 the Piedmont system.

15 **Q. Is the IMR the only regulatory mechanism that helps Piedmont deal**
16 **with the issue of regulatory lag as it relates to PHMSA compliance**
17 **spending?**

18 A. No. The Commission has previously allowed Piedmont to defer O&M
19 expenditures under its TIMP and DIMP programs. These deferrals are
20 also very important to the Company's ability to maintain its robust
21 PHMSA compliance activities and Piedmont requests that these deferrals
22 continue to be allowed going forward.

1 **Q. Why can't you build these costs into the Company's pro forma**
2 **revenue requirement?**

3 A. Because these costs are highly variable in nature and we do not have a
4 mechanism sufficient to formulate a reasonable estimate of what these
5 costs will be year-to-year. Based on these facts, we continue to believe
6 that deferral is a better and ultimately more accurate way to account for
7 these costs.

8 **Capital Investments**

9 **Q. Has Piedmont incurred significant non-PHMSA related capital**
10 **expenditures since its last general rate case filing?**

11 A. Yes. We estimate that our North Carolina utility plant in service will
12 increase by more than \$1.65 billion during the two-year period from the
13 date through which plant was updated in our prior general rate case and
14 our projected plant in service proposed for use in this proceeding as of
15 June 30, 2021. Approximately 54% of this capital expenditure was
16 directly related to the addition of new or expanded natural gas
17 consumption by our customers or is being recovered timely through the
18 IMR and therefore does not contribute significantly to the current need for
19 general rate relief. However, the remaining 46%, \$759 million, of
20 investment was necessary to facilitate growth on our system and the
21 continued provision of reliable service during extreme weather. The vast
22 majority of these necessary projects will not generate a near-term increase

1 in revenues and, therefore, are the primary drivers of Piedmont's need for
2 rate relief at this time.

3 **Q. What is the largest such infrastructure project?**

4 A. It is the Robeson County LNG facility. We expect completion during
5 June of this facility which will provide significant enhancements to system
6 reliability and operational flexibility that is needed to meet our customers'
7 demand for natural gas during periods of extreme cold weather, also
8 known as peak demand. The tank will hold liquefied natural gas that
9 approximates the heating value of one million dekatherms of natural gas
10 and will be an addition to Piedmont's North Carolina plant in service of
11 approximately \$223 million.

12 **Q. How critical is the Robeson LNG facility for Piedmont to meet its**
13 **peak demand?**

14 A. The Robeson County LNG plant is absolutely critical to Piedmont's ability
15 to serve its design day demand, particularly in view of the cancellation of
16 the Atlantic Coast Pipeline project. Without the Robeson County LNG
17 plant, Piedmont's available natural gas supply will fall short of its peak
18 day demand during the winter of 2022-2023. Customer growth created the
19 need for additional natural gas supply on a peak day. The Company
20 reviewed several options for meeting this looming shortfall including
21 procuring additional firm transportation rights on the interstate pipeline
22 system combined with additions to our system infrastructure. Our review
23 indicated that the Robeson County LNG plant was the most cost-effective

1 option to support our projected peak demand needs. It is capable of not
2 only providing the gas supply needed for peak demand in eastern NC, but
3 the plant also provides that gas supply at an elevated pressure that pushes
4 the gas farther into Piedmont's system, thus alleviating the near-term need
5 for additional infrastructure. Its location is ideal in terms of facilitating
6 the provision of natural gas in a northeastern direction toward Fayetteville
7 and points beyond, and also to the southeast toward the growing
8 Wilmington area. Most of Piedmont's gas is received at a location near
9 Charlotte and must travel a considerable distance and pass by locations of
10 heavy natural gas consumption before reaching Robeson County and
11 locations even farther from Charlotte. As this is a Piedmont asset, we will
12 not be dependent on an outside third party to facilitate the movement of
13 natural gas from the storage tank to our customers under peak conditions.

14 **Q. In addition to the Robeson LNG project, please provide additional**
15 **capital projects that Piedmont has completed or expects to complete**
16 **prior to June 30, 2021.**

17 **A.** A few examples of significant investments made to serve our growing
18 customer base are as follows:

19 **Huntersville LNG** – This facility became operational in the early 1970s.
20 Over time, the natural gas composition received at the plant has changed
21 as more natural gas obtained from shale formations was introduced into
22 the interstate pipeline system with different properties from the more
23 traditional Gulf Coast supply. The composition of this new source of

1 natural gas led to operational problems associated with the original
2 pretreatment systems. The new pretreatment systems will be able to
3 correctly treat the current and forecasted gas to be received at the plant for
4 liquefaction. In addition, the Huntersville LNG Plant liquefaction system
5 was designed to fill the LNG tank in 200 days. The current operating
6 environment does not allow Piedmont to consistently have 200 days to fill
7 the tank, so the new liquefaction system was designed to fill in 100 days.
8 The new liquefaction system also uses a nitrogen-based refrigeration cycle
9 instead of a hydrocarbon gas cycle to lower the plant's carbon footprint.
10 The modernization of the Huntersville LNG facility is projected to add
11 approximately \$54 million to our North Carolina plant in service.

12 **Line 328 Extension - (Winston Salem)** Transmission pipeline extension
13 to provide additional capacity into the high-pressure distribution system
14 on the western side of the Winston Salem service area. The high-pressure
15 distribution system is the primary supply pipeline from which all
16 distribution systems are served in southwestern Forsyth and northeastern
17 Davie Counties. Installation of this proposed pipeline will ensure the
18 stability of the system during high demand conditions and ensure service
19 to current and projected firm customers in those areas. Project cost is
20 projected to be approximately \$48 million.

21 **Dixie River Road project – (Charlotte)** Large diameter steel distribution
22 project to serve as the primary backbone of the distribution system in West
23 Mecklenburg County between I-485 and the Catawba River near the

1 Steele Creek Community. This area is one of the last remaining areas in
2 Mecklenburg County with large tracts of developable property. Due to the
3 current growth, the existing distribution system in the Steele Creek
4 community had diminished to minimum design requirements in high
5 demand conditions. This project will restore pressure and flow for both
6 Steele Creek and the Dixie River Road area for current and projected
7 growth in this area at a cost of approximately \$16 million.

8 **Pender Onslow Expansion** – Approximately 35-mile distribution system
9 expansion generally paralleling Highway 17 between Wilmington and
10 Jacksonville to support the distribution system in each city and enhance
11 Piedmont’s ability to serve customers in this growing area. Project cost is
12 approximately \$31 million.

13 **Pleasant Garden Loop Line 330 Extension – (Greensboro)**
14 Transmission pipeline extension to provide additional capacity and
15 associated pressure into the high-pressure distribution system in the
16 Greensboro/South Guilford County distribution system. The high-
17 pressure distribution system is the primary supply pipeline from which all
18 distribution systems are served in Pleasant Garden/South
19 Greensboro/Southern Guilford County. Installation of this pipeline will
20 ensure the stability of the high-pressure distribution system during high
21 demand conditions and ensure service to current and projected firm
22 customers in those areas at a cost of approximately \$20 million.

1 **Robeson County LNG Pipeline** – Two separate transmission lines of
2 approximately four miles each installed to deliver natural gas to and from
3 the newly constructed Robeson County LNG facility. The addition to
4 North Carolina plant in service will be approximately \$33 million.

5 **Governmental Relocations** – Piedmont is required to move its pipeline
6 infrastructure residing in the easements it has obtained for property owned
7 by the State of North Carolina. There is no reimbursement from the State
8 for this type of relocation project. Such requests primarily involve road
9 construction projects and are received from the NC Department of
10 Transportation. Total costs during the two years ending June 30, 2021 are
11 projected to exceed \$95 million.

12 **Q. Does the Company anticipate a continuing need to expand facilities in**
13 **Eastern North Carolina going forward?**

14 **A.** Yes. As the Commission is aware, our system in the eastern part of the
15 state was inherited from North Carolina Natural Gas and, to a lesser
16 degree, Eastern North Carolina Natural Gas when Piedmont purchased the
17 facilities of these entities in 2003. In this part of the State, transmission
18 distances tend to be longer, operating pressures lower, and our overall
19 transmission system is not as dense or redundant as it is in the more
20 populous parts of our service territory. In addition, Piedmont has
21 experienced meaningful customer growth in the eastern part of the State
22 since 2003, which has consumed much of the flexibility of our existing
23 facilities in that region. One of the benefits that would have accrued to

1 Piedmont as a result of the Atlantic Coast Pipeline project is the addition
2 of new supplies of high-pressure gas delivered to Piedmont in eastern
3 North Carolina. Without the Atlantic Coast Pipeline project, Piedmont
4 will now need to construct additional facilities to increase deliverability to
5 that region from its more traditional sources of supply. Piedmont is
6 currently in the planning phases for these system upgrades but wanted the
7 Commission to be aware of these pending capital projects, currently
8 anticipated for completion in the 2024-2026 time frame.

9 **Methane Leakage Mitigation**

10 **Q. Is Piedmont aware of the concerns expressed by some environmental**
11 **activists that methane leakage associated with the production,**
12 **transmission and distribution of natural gas negates the lower**
13 **emissions benefits of natural gas as an energy source?**

14 A. Yes. I am very aware of these arguments.

15 **Q. Do you agree with those concerns?**

16 A. No. I disagree with the notion that natural gas is not a significant
17 improvement over coal and fuel oil in terms of emissions and potential
18 impacts on climate change. Having said that, the Company is continuing
19 to take steps to reduce or eliminate the potential of methane leakage on
20 Piedmont's system.

21 **Q. Please elaborate on Piedmont's efforts to reduce methane emissions.**

22 A. These efforts include the flaring of natural gas as part of pigging
23 operations whenever possible rather than releasing methane directly into

1 the atmosphere, adjusting compressor maintenance practices to limit the
2 number of occasions when gas must be vented and reducing the amount of
3 gas that is vented when necessary, and a continuing emphasis on
4 reductions in third-party damages which are the largest contributors to
5 methane releases on Piedmont's system. Additionally, we have performed
6 two satellite flyover pilots to identify methane leaks and compare them to
7 known leaks. In the future, we believe these flyovers may provide data to
8 identify leaks that is practically in real time. We are also piloting a
9 technology to capture the methane from a pipeline that is being removed
10 from service. This technology compresses the gas and injects it back into
11 the active portion of our system. Historically, this gas has been vented
12 into the atmosphere. Finally, we are an active member of ONE Future, a
13 coalition of industry members representing the entire natural gas supply
14 chain, working together to reduce the methane intensity of the natural gas
15 supply chain to 1% or less by 2025.

16 **Q. Do you have anything to add to your testimony?**

17 **A.** No, not at this time.

1 MR. HESLIN: Thank you, Chair Mitchell.

2 Q. Mr. Weisker, have you prepared a summary of
3 your prefiled testimony?

4 A. I have.

5 Q. Please provide that to the Commission.

6 A. My name is Brian Weisker, and I am the senior
7 vice president and chief operations officer of the
8 natural gas business for Duke Energy Corporation. I
9 prefiled direct testimony in this docket on
10 March 22, 2021, in support of Piedmont's application
11 for a general rate increase.

12 My prefiled direct testimony addresses the
13 following five topics: the efforts and activities
14 undertaken by Piedmont in compliance with regulations
15 of federal pipeline safety regulations promulgated by
16 the Pipeline and Hazardous Material Safety
17 Administration, commonly referred to as PHMSA, since
18 Piedmont's last general rate case; Piedmont's projected
19 spending on PHMSA compliance over the coming years in
20 light of ongoing and projected changes to PHMSA
21 regulatory requirements; the importance of Piedmont's
22 integrity management rider mechanism to both its past
23 and projected future spending on PHMSA compliance;
24 Piedmont's capital investment in the Robeson liquefied

1 natural gas project and other large capital projects;
2 and Piedmont's continuing efforts to reduce methane
3 leakage from its system.

4 In summary, my prefiled direct testimony
5 demonstrates Piedmont's commitment to compliance with
6 federal safety -- excuse me, federal pipeline safety
7 regulations in the scope of its compliance activities.
8 Piedmont recognizes and appreciates the Commission's
9 willingness to support such compliance with effective
10 regulatory mechanisms.

11 My prefiled direct testimony is accompanied
12 by the following two exhibits: The first is PHMSA
13 Expenditures, and the second is Future PHMSA Compliance
14 Expenditures.

15 This concludes the summary of my prefiled
16 direct testimony.

17 Q. Thank you, Mr. Weisker.

18 MR. HESLIN: Chair Mitchell, as we
19 discussed prior to handing off the witness for
20 further questioning, we are prepared to address the
21 consumer statement that the Company filed on
22 September 7, 2021, and identified as Weisker Direct
23 Late-Filed Exhibit Number 1.

24 CHAIR MITCHELL: All right. You may

1 proceed.

2 MR. HESLIN: Thank you.

3 Q. Mr. Weisker, you have before you what was
4 filed by Piedmont on September 7th and identified as
5 Weisker Direct Late-Filed Exhibit Number 1. Do you see
6 that?

7 A. Yes, I do.

8 Q. And that is a letter dated August 26, 2021,
9 to the chief clerk of the NCUC, or the North Carolina
10 Utilities Commission, specifically pertaining to Docket
11 Number G-9, Sub 781, which is the rate case docket that
12 the Commission is hearing today; is that correct?

13 A. That's correct.

14 Q. And the letter's one page consisting of two
15 paragraphs and states that it is from, quote, a
16 concerned employee and ratepayer, close quote; is that
17 correct?

18 A. That is correct.

19 MR. HESLIN: Chair Mitchell, at this
20 time, we ask that Weisker Direct Late-Filed Exhibit
21 Number 1 be marked as identified.

22 CHAIR MITCHELL: All right. Hearing no
23 objection, the exhibit will be marked as it was
24 when prefiled.

1 (Weisker Direct Late-Filed Exhibit
2 Number 1, was identified as it was
3 marked when prefiled.)

4 MR. HESLIN: Thank you.

5 Q. Mr. Weisker, without reading the letter word
6 for word, would it be fair to say that the individual
7 claims to be an employee of Piedmont, that he alleges
8 that Ms. Amy Presson unnecessarily mandated that the
9 Company apply a coating called ScarGuard to the entire
10 length of pipe on all horizontal drilling projects,
11 presumably to run up the cost, and then questions
12 Ms. Presson's qualifications and management?

13 A. That's correct. That's what the letter
14 claims.

15 Q. And before we address the specific
16 allegations, I'd like to lay a bit of context and
17 information for the Commission here.

18 First, what is your position in the Company
19 as it relates to Ms. Presson, and could you explain
20 some of her responsibilities?

21 A. So I am Ms. Presson's supervisor, and some of
22 her responsibilities include overall project
23 management, project controls, and implementation of our
24 major projects and transmission-level projects for the

1 natural gas business.

2 Q. And can you explain to the Commission what
3 horizontal boring or drilling is and when the Company
4 uses that methodology?

5 A. So horizontal drilling, it's a construction
6 technique that is utilized in an area where it's
7 difficult, if not impossible, to do an open-trenching
8 technique. So with a horizontal directional drill, a
9 drill rig is utilized, and you end up drilling and
10 boring underneath. It typically would be a river or an
11 environmentally sensitive area like a wetland, and the
12 bore -- the horizontally directional drill basically
13 drills and bores underneath that feature at a curvature
14 where it then comes up on the other side.

15 And then after you bored out that hole,
16 you're able to take the pipe that's constructed and
17 pull it back through that drill hole.

18 Q. And you mentioned the open trench or the open
19 cut technique. What are the differences, as far as
20 concerns between the horizontal drilling project and
21 the open cut pipe installation?

22 A. So as the name basically says, with the open
23 cut or an open trenching technique, it's literally a
24 trench is excavated anywhere from 4 to 6 feet deep,

1 typically, where we then lay the pipe into the trench.
2 And so we're able to visually see the soil conditions
3 where the pipe is laid, and we're able to also visually
4 see the soil that's then placed back around the pipe
5 after it's been laid. We can inspect -- visually
6 inspect the integrity of the coating that is applied on
7 the pipeline in order -- and the purpose of that
8 coating is there for protection of the pipe for decades
9 to come.

10 In a horizontal directional drill, as this
11 hole has been bored and drilled through, you can't
12 visually see that pipe once it ends up in its place
13 where it will permanently reside, and you have to
14 actually pull that pipe through, so you visually cannot
15 see.

16 So that's -- that is the largest difference
17 between those two techniques.

18 Q. What are the concerns, if any, regarding
19 pulling the pipe through a horizontal drilling hole?

20 A. So it's extremely important that when you
21 pull that pipe back through the hole that was drilled,
22 that we maintain the integrity of the coating on the
23 pipe; that we don't damage the coating or actually
24 damage the coating right through the coating and damage

1 the pipe. Because that coating, like I mentioned, it's
2 extremely important for protecting the pipe, itself,
3 from corrosion.

4 And so that -- so since you can't visually
5 see it, it's extremely important that that is
6 maintained once we pull the pipe back through the hole.
7 And so we measure that via resistivity test.

8 Q. And to avoid confusion when you mention
9 coating, ScarGuard is a coating that's mentioned in
10 this letter.

11 What is the coating that is under the
12 ScarGuard that you're referencing that needs to be
13 protected?

14 A. So that's a fusion-bonded epoxy coating. So
15 that is the coating that is applied on all of our steel
16 piping that is installed. So you have the pipe,
17 itself, that fusion-bonded epoxy, and then where
18 needed, in a rocky setting, that's when ScarGuard is
19 used to protect that fusion-bonded epoxy coating, or
20 FBE coating.

21 Q. And what is ScarGuard and what does it
22 actually do?

23 A. So ScarGuard is a -- it's an
24 abrasive-resistant overcoat -- an ARO is what -- by

1 abbreviation. But an abrasive-resistant overcoat that
2 is applied to the pipe before we pull it back through.
3 And if it's in a rocky terrain where we've had to bore
4 through a rocky setting, and that abrasive-resistant
5 overcoat's purpose is it hardens quickly after being
6 applied in the field, and its job is to protect that
7 fusion-bonded epoxy coating and the pipe from getting
8 any damage as we pull the pipe back through the
9 horizontal directional drill hole.

10 Q. What are the consequences if a pipe, in its
11 corrosion or cathodic protection, the -- I believe the
12 epoxy protection that you mentioned, if it's damaged
13 when it's pulled through the horizontal hole?

14 A. In the short term, it would be identified via
15 the resistivity testing. It's gonna be reworked,
16 pulling the pipe back out, recoating, delay of the
17 project, additional time, and additional cost. Over
18 the long term, if there's damage done to that coating,
19 we'll find that via our inline inspection techniques
20 that we perform. PHMSA required inspections that are
21 performed every seven years is the cycle for those.

22 And when we do an inline inspection, we can
23 find -- if we have an area with corrosion, we'd find
24 that via the inline inspection technique. And

1 ultimately, the worst-case scenario is having to
2 replace that pipe. And since this is an area where we
3 bored, we can't excavate down to it to do a repair.
4 The only way to fix that is doing another bore and
5 pulling a new pipe through.

6 Q. The letter mentions that applying ScarGuard
7 along the entire pipe within that horizontal drilling
8 bore is somewhat new. Has Piedmont changed its
9 application of ScarGuard on -- in these horizontal
10 drilling situations?

11 A. We have. So this is a relatively new over
12 the last couple of years, ScarGuard has been utilized
13 on the weld joints of pipings of -- weld pipe typically
14 comes in 40-foot segments, and then it's field welded.
15 And then ScarGuard was always applied at that field
16 weld location.

17 But what we have found through some of our
18 operating experience here over the last several years,
19 and with a couple projects where we ended up having to
20 do rework is when we -- without applying ScarGuard
21 across the entirety of the length of the pipe, it has
22 been damaged when we pulled it through a bore hole.

23 Q. And to be clear, when we talk about applying
24 ScarGuard across the entire pipe, that's only the pipe

1 that is subject to the horizontal drilling bore,
2 correct?

3 A. Correct. It's only the section where we
4 actually pull the pipe through the horizontal
5 directional drill, which is -- on all of our projects
6 is a very small amount of the total length of the pipe
7 that's installed.

8 Q. Does Piedmont apply ScarGuard along the
9 entire pipe every time there's a horizontal drilling
10 project?

11 A. No. We only install it in areas where the
12 soil is rocky, where we have the increased risk of
13 damaging that fusion-bonded epoxy coating in the
14 piping, and that's in an area where it's a rocky soil.
15 If it's sandy soil or a dirt soil, we do not install it
16 across the lengths of the pipe that's being pulled
17 through that horizontal directional drill hole.

18 Q. Who made the decision to apply ScarGuard
19 along the entire pipe in rocky situations?

20 A. That decision was made by our engineering and
21 integrity management organization within the Company.

22 Q. So the allegation letter that Ms. Presson was
23 a sole decision-maker and that she initiated the
24 mandate that ScarGuard be used all the time in HDD or

1 horizontal drilling situations is wrong?

2 A. Correct. That is an incorrect statement.

3 Q. And you mentioned that the ScarGuard is only
4 used on the entire pipe in horizontal drilling projects
5 where there's rocky soil. Approximately how much of
6 the time does Piedmont encounter a rocky soil within
7 the North Carolina service territory where it's
8 installing pipe?

9 A. So within the North Carolina -- within
10 North Carolina, when we do perform a horizontal
11 directional drill, it's somewhere in the range of 30 to
12 40 percent of those horizontal directional drills will
13 be in a rocky setting. It's very much geography
14 specific.

15 Q. What have the results been since Piedmont
16 started utilizing ScarGuard along the entire pipe in
17 these rocky situations?

18 A. So the results have been extremely positive.
19 I mentioned before that a resistivity test is
20 performed. After we pull the pipe back through the
21 horizontal directional drill bore hole, through that
22 hole, the resistivity test is performed to validate the
23 integrity of the fusion-bonded epoxy coating.

24 And what we have seen since utilizing the

1 ScarGuard in these rocky settings, that every single
2 one of those installations have been successful. We've
3 had improvements in the resistivity testing results,
4 which, in turn, will lead to long-term better
5 performance out of that fusion-bonded epoxy over
6 decades to come.

7 Q. Reference back to the exhibit Weisker Direct
8 Late-Filed Exhibit Number 1, and I refer you to the
9 second paragraph, seven lines down, the sentence that
10 starts:

11 "No other utility does this and all the
12 contractors can't understand why, even though
13 they are loving the windfall."

14 Do you see that quote?

15 A. I do.

16 Q. Do other utilities use ScarGuard across the
17 entire pipe like Piedmont is doing at this time?

18 A. Yes, they do. Other utilities have, and
19 we've done some additional investigation to verify.
20 Examples of other utilities that are doing this in the
21 same scenario, in rocky settings and a horizontal
22 directional drill, include Virginia Natural Gas,
23 Atlanta Gas Light, Atmos, and many others within the
24 industry.

1 Q. We've already discussed how Piedmont only
2 uses ScarGuard in about 30 percent of those horizontal
3 drilling projects, and then Piedmont has employed this
4 practice in about the last year, couple of years, which
5 is consistent with other utilities' usage.

6 What are the incremental cost of this change
7 in usage?

8 A. So for a pipe that's -- a 12-inch diameter
9 pipe, which is typically, I'll say, a standard pipe
10 that we install throughout the North Carolina system,
11 the incremental cost is around \$100,000 for a 100-foot
12 section of pipe. And what we've -- and as we've looked
13 back over the past -- looking back over the past three
14 years, looking at the average total length of pipe
15 installed and the amount of that length that was
16 installed via a horizontal directional drill, which it
17 averages, just say, six miles per year. And then that
18 35 percent roughly of the pipe that's in a rocky
19 setting, we're talking, on a typical year, about
20 2,000 -- excuse me -- two miles of pipe that's
21 installed utilizing, you know, a horizontal directional
22 drilling technique in a rocky setting, which is around
23 11,000 feet of pipe, which, in an annualized view, if
24 that's 12-inch pipe that's installed, you're looking at

1 about \$1.1 million.

2 Q. And I believe, in your answer, you stated
3 that ScarGuard costs approximately \$100,000 for
4 100 feet of pipe?

5 A. Correction. It's \$100,000 per 1,000 feet of
6 pipe. Sorry about that.

7 Q. Thank you. Now, towards the end of this
8 letter, the writer goes back to specifically
9 identifying Ms. Presson, and states that she is a
10 nuclear energy without requisite experience. He or she
11 then goes on to state that Ms. Presson doesn't listen
12 to her team, employs bullying tactics, and caused the
13 best construction superintendent the Company has ever
14 had to quit. Do you see that?

15 A. I do.

16 Q. So, first, can you explain to the Commission
17 Ms. Presson's qualifications and her performance in her
18 current role?

19 A. So Ms. Presson has 22 years of experience
20 within the utility industry. The last 10 years of that
21 experience has been at the director level or above
22 leading many complex projects and implementation of
23 projects. Ms. Presson has a bachelor of science in
24 business administration from the University of

1 North Carolina Chapel Hill. She has a bachelor of
2 science in nuclear engineering from North Carolina
3 State University.

4 She's also our representative for the natural
5 gas business unit on INGAA, Natural Gas Association of
6 America. She has extensive experience and has
7 demonstrated outstanding leadership leading her team
8 here in the natural gas business unit.

9 Q. And in your opportunity to observe her as her
10 manager, have you seen any of the behavior that this
11 letter alleges?

12 A. I have not. Ms. Presson has demonstrated an
13 immense level of teamwork, listening to her team,
14 accepting feedback, implementing fleet-wide solutions.
15 I have not seen anything that is claimed in this
16 letter.

17 Q. Do you have any idea who, quote, the best
18 construction superintendent the Company ever had, close
19 quote, that Ms. Presson presumably caused to quit the
20 Company?

21 A. Yes, I do. I know exactly who is being
22 referred to in the letter. And this construction
23 superintendent, he did not quit from the Company, he
24 retired from the Company. I've maintained very close

1 communication with him over the last several years.

2 And his exact words were, "Ms. Presson actually

3 empowered me to be able to retire."

4 Because of what he's learned and what he's
5 done over the last several years working within the
6 major project organizations, he had an opportunity to
7 go somewhere else and expand his career post retirement
8 from the Company, and he really is thankful for what
9 Ms. Presson has done for him.

10 Q. Thank you, Mr. Weisker. Just a couple more
11 questions.

12 What's the Company's response when it was
13 made aware of the allegations in this letter?

14 A. So we investigated the response. We take any
15 kind of an allegation seriously. We investigated both
16 the technical merits of the work that were -- when we
17 utilize ScarGuard. And we also investigated, I'll say,
18 the human element of it, as far as the claims against
19 Ms. Presson.

20 Q. And prior to this anonymous letter, had any
21 employee raised these concerns with you regarding the
22 Company's usage of ScarGuard?

23 A. No, they had not. But we try to instill a --
24 foster an environment of being able to bring up any

1 kind of an issue, and -- but no, they have not.

2 Q. If the identity of this anonymous writer were
3 learned by the Company, would Piedmont take any
4 negative actions for the employee?

5 A. No, we would not. I would like the
6 opportunity, if it was ever identified, to sit down
7 just to have a conversation to talk through. Because
8 there's obviously some significant technical gaps as
9 to, you know, understanding of when we use ScarGuard,
10 why we use ScarGuard, the importance of ScarGuard. And
11 just really have a conversation also around, if you
12 have concerns, please, feel free to come talk to me
13 about your concerns or anyone within the natural gas
14 business unit.

15 Q. Did representatives from Piedmont meet with
16 members of the energy division of the Public Staff
17 about this specific letter?

18 A. Yes, we did. We met with them yesterday
19 morning.

20 Q. Who on your team attended the meeting and
21 what are their positions and responsibilities?

22 A. So it was -- I met with the members of the
23 Public Staff as well as Billy Wooldridge. And he is
24 the construction superintendent within our major

1 projects business unit or business function department.

2 And then we had Mel Huey, who is our director of our
3 integrity management program.

4 Q. And did the Public Staff ask questions?

5 A. They did.

6 Q. And just to be clear, the members of the
7 Public Staff included accountants and engineers; is
8 that correct?

9 A. That is correct.

10 Q. And has Piedmont also had contact with the
11 North Carolina Utilities Commission gas pipeline safety
12 manager, Steve Wood, about this consumer statement?

13 A. Yes. Mr. Wood reached out to our regulatory
14 compliance team to investigate the matter just the past
15 couple of days, and I'd spoken with Steve last evening
16 as well.

17 Q. Thank you, Mr. Weisker.

18 MR. HESLIN: Chair Mitchell, Mr. Weisker
19 is available for cross examination and questions
20 from the Commission.

21 CHAIR MITCHELL: All right. Thank you,
22 Mr. Heslin. Cross examination for the witness?
23 I'll check in with the parties to see, beginning
24 with the Public Staff.

1 MS. JOST: The Public Staff does not
2 have any questions. Thank you.

3 CHAIR MITCHELL: Okay. Attorney
4 General's Office?

5 MS. TOWNSEND: Yes, Commissioner, we
6 just have a few questions for Mr. Weisker.

7 CROSS EXAMINATION BY MS. TOWNSEND:

8 Q. Good morning, Mr. Weisker.

9 A. Good morning.

10 Q. I just have a few questions, as I said.
11 Regarding your testimony on page 16 where you testified
12 regarding Piedmont's methane leak detection programs.

13 A. Yes.

14 Q. Okay. You mentioned that Piedmont has
15 performed two satellite flyover pilots to identify
16 methane leak; is that correct?

17 A. That's correct.

18 Q. And how have those satellite flyovers helped
19 Piedmont in determining its leak detection?

20 A. So it's gone extremely well, I'd say. So
21 what we were doing with the first several flyovers --
22 so we perform leak detection surveys where we have
23 folks on foot that go around and identify leaks on our
24 system that we then go out and repair.

1 With the flyover, two things: one, we wanted
2 to validate, do we see the leaks that we have on our
3 system with the satellite as well; and then also, are
4 there any other unknown leaks that we haven't detected
5 through our survey cycle that we would find and then be
6 able to go out and repair as well.

7 So in both accounts, we were able to
8 correlate the two, where we do have a known leak to
9 what we see with the satellite. And we were also able
10 to identify some leaks that we did not have on our
11 system and we were able to go out and repair.

12 Q. Awesome. And do you have plans, or does the
13 Company have plans to continue to utilize the satellite
14 flyovers?

15 A. So what we have now -- we've expanded this
16 and we're in the process of doing a pilot of this on a
17 monthly flyover. Not in North Carolina, it's for
18 Greenville, South Carolina. We wanted to get a pretty
19 good size city but just continue to grow this. But our
20 pilot right now is going to be a monthly flyover of --
21 you can imagine fly over, identify leaks, let's go and
22 then fix leaks, and fly back over again with the
23 satellite, take a snapshot to see that we were
24 successful in repairing.

1 So we did a flyover back in the springtime in
2 Greenville. What was really exciting, we've repaired
3 about 200 leaks. And when the flyover went over just
4 about two weeks ago, those leaks didn't show up on the
5 flyover, they were fixed. And so our plan is to
6 continue expand that, grow this pilot program, and
7 hopefully that this will be something that we can
8 continue to grow and expand as we work very diligently
9 to reduce any kind of methane emissions from our
10 system.

11 Q. Great. Awesome. Is Piedmont employing any
12 other methods of identifying methane leaks?

13 A. So we have our annual -- well, I should say
14 it's a three-year cycle of on-foot leak detection that
15 we do across the entirety of our system. So that's
16 where we literally walk the entire length of our system
17 to identify leaks. We also, on a quarterly basis,
18 utilize a helicopter to fly all of our gas transmission
19 lines. It has a -- it's just an air detection
20 sniffer -- a sniffer that attaches onto the helicopter,
21 and it flies the entire length of our transmission
22 system on a quarterly basis to identify leaks as well.

23 Q. Great. Has Piedmont made attempts to procure
24 natural gas from suppliers that employ these type of

1 methods that result in lower methane emissions?

2 A. I think I'm not the expert on the procurement
3 side of our natural gas. We have others who can
4 testify better as far as the procurement side.

5 Q. Okay. But there are attempts being made for
6 that purpose, to your knowledge?

7 A. I think we probably need to have another one
8 of our witnesses answer. I can't answer specifically
9 on what the attempts are.

10 Q. Okay. That's fine. And that's all the
11 questions I have. Thank you very much.

12 A. Thank you.

13 CHAIR MITCHELL: All right. Let's see,
14 Duke Energy Carolinas? I'm not seeing Mr. Kaylor.

15 Fayetteville Public Works Commission?

16 MR. WEST: No questions, Madam Chair.

17 CHAIR MITCHELL: Okay. CUCA?

18 MR. SCHAUER: No questions.

19 CHAIR MITCHELL: Okay. CIGFUR?

20 MS. CRESS: No questions,

21 Chair Mitchell.

22 CHAIR MITCHELL: All right.

23 Questions -- actually, Mr. Heslin, redirect for
24 your witness?

1 MR. HESLIN: No redirect,
2 Chair Mitchell. Thank you.

3 CHAIR MITCHELL: Okay. Questions for
4 the witness from Commissioners.

5 Commissioner McKissick?

6 COMMISSIONER MCKISSICK: Thank you,
7 Madam Chair.

8 EXAMINATION BY COMMISSIONER MCKISSICK:

9 Q. Just a few questions. And I had a number of
10 them, but I think that you were able to answer most of
11 them in your testimony today.

12 Can you elaborate further on Ms. Presson's
13 role in the adoption of this policy.

14 A. So Ms. Presson's role in the adoption, she
15 would -- her and her team would be the group that would
16 implement in the field the policy that was decided upon
17 by our engineering and technical team. So think of it
18 as an engineering and technical team develops the
19 standard, a construction standard, and then the team
20 that implements those projects in the field implements
21 that standard.

22 Q. Okay. And the engineering team, I mean, do
23 you know what kind investigations they conducted or
24 evaluations before determining that this was a policy

1 they wanted to adopt?

2 A. So we have utilized, as I mentioned, the
3 ScarGuard technique on weld joints, but we actually,
4 I'll say, did some testing of that. So one good
5 project as an example where we implemented this in late
6 2019, early 2020 to test out putting ScarGuard on the
7 entirety of the length of that horizontal directional
8 drill through a rocky soil was part of our line 24
9 replacement project. And so in that scenario there.
10 This was before the official policy of utilizing this
11 in this rocky horizontal directional drill sections.

12 But it was used on that project, and again,
13 saw outstanding results. No damage to the coating.
14 Resistivity test was excellent and showed improvements.
15 And so I'll say that field testing and implementation
16 is what led to the implementation of the policy from
17 our integrity management team.

18 Q. Okay. And at what point in time did the
19 engineering department make this recommendation of the
20 use of the material?

21 A. The formal recommendation was in
22 November of 2020.

23 Q. Okay, November 2020.

24 Have you had a chance since that time to do

1 any type of comparative analysis relating to the cost
2 of implementing the policy? And I think you said that,
3 you know, it looked like it cost -- I think was it in
4 the range of about \$1.1 million since its
5 implementation versus what you might have incurred
6 previously in terms of having to go back and reinstall
7 sections of pipe that were damaged?

8 A. I don't -- from an overall financial
9 analysis, I don't have -- I don't know that I can
10 answer that right now, as far as financial analysis on
11 the \$1.1 million cost. But the whole purpose of this
12 is to protect the asset for the long run. We are and
13 have and had to replace sections that have been bored
14 underneath a water body that have basically -- that the
15 pipe life hasn't lasted as long as would have been
16 expected. And so I think the cost very much justifies
17 the long-term value and the long-term integrity
18 management value.

19 Q. And I believe the allegation in the anonymous
20 letter was that it added millions to the cost of each
21 project.

22 Do you have any idea what has actually been
23 spent since this new ScarGuard policy has been adopted?
24 I mean, what has it actually worked out to, if you have

1 any idea of what that might be?

2 A. It would be in a range of that -- on an
3 annualized look, that \$1.1 million on an annualized
4 look. But that's spread out across multiple projects.
5 The one project I gave you the example on where we did
6 the testing of this back in 2019 went into service in
7 early 2020, that was a \$72 million total project, and
8 the cost of the ScarGuard was less than \$300,000.

9 Q. Got it. And, of course, you said the
10 ScarGuard is only used when you encounter the rocky
11 soil condition, and that's only about 30 percent of the
12 time; is that correct?

13 A. That's only about 30 to 40 percent of the
14 time in North Carolina when we do a horizontal
15 directional drill.

16 Q. Okay.

17 A. And realize a horizontal directional drill
18 technique is only used on it -- over the last three
19 years, it's only been used, on average, 8 percent. So
20 8 percent of the total miles installed, and then it's
21 only been 30 to 40 percent of the time on that
22 8 percent of the miles installed.

23 Q. And Ms. Presson, I take it based upon your
24 testimony, it was not her decision to implement the

1 policy at all dealing with the ScarGuard, it was made
2 by the engineering department.

3 So the allegation that it was her decision
4 and that, you know, her background was not appropriate
5 to make that determination, I take it that that
6 information that was provided in the letter is
7 inaccurate?

8 A. Yes, that is inaccurate. It was our
9 engineering and integrity management organization
10 that -- technical experts who made the decision.

11 COMMISSIONER McKISSICK: Thank you,
12 Madam Chair. I don't have any further questions.

13 THE WITNESS: Thank you.

14 CHAIR MITCHELL: Okay. Questions from
15 any other Commissioners?

16 (No response.)

17 CHAIR MITCHELL: All right. I'm not
18 seeing any. Let's go to questions on
19 Commissioner's questions. Any of the intervening
20 parties have questions on Commissioner's questions?

21 (No response.)

22 CHAIR MITCHELL: Okay. Piedmont,
23 questions on Commissioner's questions?

24 MR. HESLIN: Chair Mitchell, just one

1 question.

2 CHAIR MITCHELL: Okay.

3 REDIRECT EXAMINATION BY MR. HESLIN:

4 Q. Mr. Weisker, given the specific pointing out
5 of Ms. Presson and the discussion we've had, having
6 reviewed this letter and knowing Ms. Presson as you do
7 as her manager, do you have any concerns about her
8 qualifications, leadership abilities, or integrity?

9 A. I have absolutely no concerns about her
10 leadership abilities, integrity, and her
11 qualifications. She's extremely qualified for the job,
12 she's been doing an outstanding job, and she's an
13 outstanding leader, and is someone who has a bright
14 future ahead of her within the Company.

15 MR. HESLIN: Thank you. No further
16 questions. Thank you, Chair Mitchell. Thank you,
17 Mr. Weisker.

18 THE WITNESS: Thank you.

19 CHAIR MITCHELL: All right.

20 Mr. Weisker, thank you for your testimony today. I
21 do believe you are -- may be excused.

22 Mr. Heslin, I will take a motion from
23 you.

24 MR. HESLIN: Yes. At this time, we'd

1 ask that exhibits marked BRW-1 and BRW-2, as well
2 as Weisker Direct Late-Filed Exhibit 1, be accepted
3 into evidence.

4 CHAIR MITCHELL: All right. I'm not
5 hearing any objection to your motion, Mr. Heslin,
6 so it will be allowed.

7 (Exhibits BRW-1, BRW-2, and Weisker
8 Direct Late-Filed Exhibit Number 1, were
9 admitted into evidence.)

10 MR. HESLIN: Thank you, Chair Mitchell.
11 And we don't intend to recall Mr. Weisker in this
12 hearing.

13 CHAIR MITCHELL: Okay. Mr. Weisker, you
14 are excused. Thank you very much, sir.

15 THE WITNESS: Thank you, ma'am.

16 CHAIR MITCHELL: All right. Piedmont,
17 let's go ahead and call your next witness, please.

18 MR. JEFFRIES: Thank you,
19 Chair Mitchell. Piedmont would call
20 Mr. Karl Newlin to the stand, please.

21 CHAIR MITCHELL: All right. Mr. Newlin,
22 there you are. Good morning, sir, would you raise
23 your right hand.

24 Whereupon,

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KARL W. NEWLIN,

having first been duly affirmed, was examined

and testified as follows:

CHAIR MITCHELL: All right,

Mr. Jeffries.

MR. JEFFRIES: Thank you,

Chair Mitchell.

DIRECT EXAMINATION BY MR. JEFFRIES:

Q. Mr. Newlin, you could please state your name and business address for the record, please.

A. Karl Newlin. My business address is 550 South Tryon Street, Charlotte, North Carolina.

Q. And do you work -- well, where do you work, Mr. Newlin?

A. I work for Duke Energy Business Services. I'm the senior vice president corporate development and treasurer. Duke Energy Business Services provides various administrative services to Piedmont Natural Gas.

Q. All right. Thank you, sir. Are you the same Karl Newlin that prefiled direct testimony in this proceeding on March 22, 2021, consisting of 18 pages and exhibits marked as KWN-1 through KWN-3?

A. I am.

1 Q. And are you also the same Mr. Newlin that
2 filed rebuttal testimony in this proceeding on
3 August 25, 2021, consisting of 13 pages and an exhibit
4 marked as Rebuttal Exhibit KWN-1?

5 A. I am.

6 Q. And was that testimony and were those
7 exhibits prepared by you or under your direction?

8 A. Yes.

9 Q. Mr. Newlin, do you have any corrections to
10 your prefiled testimony or exhibits?

11 A. No, I do not.

12 Q. If I asked you the same questions that are
13 set forth in your prefiled testimony while you were on
14 the stand today, would your questions -- or would your
15 answers be the same as reflected in that testimony?

16 A. Yes.

17 MR. JEFFRIES: Chair Mitchell, Piedmont
18 would move that Mr. Newlin's prefiled direct and
19 prefiled rebuttal testimony be entered into the
20 record as if given orally from the stand.

21 CHAIR MITCHELL: All right. Hearing no
22 objection to your motion, Mr. Jeffries, the direct
23 testimony of witness Newlin that was filed in this
24 docket on March 22, 2021, shall be copied into the

1 record as if given orally from the stand. In
2 addition, the rebuttal testimony of witness Newlin
3 that was filed in this docket on August 25, 2021,
4 shall be copied into the record as if given orally
5 from the stand.

6 (Whereupon, the prefiled direct
7 testimony and prefiled rebuttal
8 testimony of Karl W. Newlin were copied
9 into the record as if given orally from
10 the stand.)

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Sep 14 2021

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Direct Testimony and Exhibits
of
Karl W. Newlin**

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

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

2 A. My name is Karl Newlin. My business address is 550 South Tryon Street,
3 Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Duke Energy Business Services, LLC (“DEBS”) as
6 Senior Vice President, Corporate Development and Treasurer. DEBS
7 provides various administrative and other services to Piedmont Natural
8 Gas Company, Inc, (“Piedmont” or the “Company”) and other affiliated
9 companies of Duke Energy Corporation (“Duke Energy”).

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

11 A. I graduated from Southern Methodist University with a Bachelor of
12 Business Administration degree in 1991. I subsequently received a
13 Master’s in Business Administration degree from UCLA’s Anderson
14 School of Management in 1998. I am also a Chartered Financial Analyst.

15 In November 2018, I assumed the role of Senior Vice President,
16 Corporate Development and Treasurer for Duke Energy. Previously, I
17 served as Senior Vice President and Chief Commercial Officer for Duke
18 Energy’s natural gas business. In this role, I was responsible for gas
19 commercial operations, which included supply, wholesale marketing,
20 transportation and pipeline services, field customer service, sales and
21 delivery, and business development. I was named to this position
22 following Duke Energy’s acquisition of Piedmont in October 2016.

23 I joined Piedmont in 2010 to manage Piedmont’s strategic

1 planning functions, new business development activities and joint venture
2 investments. In November 2011, I was appointed to the position of Chief
3 Financial Officer, assuming responsibility for Piedmont's accounting,
4 controller, finance, treasurer, investor relations, insurance, credit policy,
5 risk management and state regulatory affairs areas. Prior to joining
6 Piedmont, I served as Managing Director of Investment Banking for
7 Merrill Lynch & Co. in its New York and Los Angeles offices.

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

10 A. I have recently testified before the North Carolina Utilities Commission
11 ("NCUC" or "Commission") and have filed testimony on behalf of Duke
12 Energy Carolinas and Duke Energy Progress in Docket Nos. E-7, Sub
13 1214 and E-2, Sub 1219, respectively. I have also testified before the
14 NCUC in my prior role as Piedmont's Chief Financial Officer.

15 **Q. Do you have any exhibits supporting your testimony?**

16 A. Yes, I have three exhibits. Exhibit_(KWN-1) shows Piedmont's end of
17 test period capital structure as well as the projection of Piedmont's capital
18 structure in support of Piedmont's pro forma capital structure for use in
19 this proceeding. Exhibit_(KWN-2) shows Piedmont's pro forma
20 embedded cost of long-term debt for use in this proceeding.
21 Exhibit_(KWN-3) shows Piedmont's pro forma embedded cost of short-
22 term debt for use in this proceeding.

23 **Q. Were these exhibits prepared by you or under your direction and**

1 **supervision?**

2 A. Yes.

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

4 A. My testimony will address Piedmont's financial objectives, capital
5 structure, and cost of capital. I will also discuss the Company's current
6 credit ratings and forecasted capital needs. Throughout my testimony, I
7 will emphasize the importance of Piedmont's ongoing ability to meet its
8 financial objectives and the benefits to customers resulting from Piedmont
9 maintaining financial stability and strong credit ratings.

10 **Q. Please provide an overview of your testimony.**

11 A. As is discussed in greater detail in my testimony, Piedmont faces
12 substantial capital needs over the next several years in order to continue its
13 compliance with federal pipeline safety and reliability regulations and to
14 construct new pipeline and distribution facilities in order to serve its
15 growing North Carolina markets. In order to meet these capital demands,
16 the Company will compete for capital in the open market and must appeal
17 to debt and equity investors to attract the capital it needs.

18 Investors have a variety of investment opportunities available to
19 them and require a return commensurate with the risk they incur.
20 Investors are less likely to invest in a company if they feel the expected
21 return doesn't fairly compensate for the perceived risk of the investment.
22 A company with lower credit quality weakens its attractiveness as an
23 investment opportunity relative to similarly situated companies with

1 higher credit quality. For this reason, it is critically important that a
2 company maintain strong investment-grade credit quality, in order to
3 assure its financial strength and flexibility and ensure access to capital on
4 reasonable terms.

5 Piedmont has and will continue to make significant capital
6 investments in order to meet its obligations under pipeline safety and
7 integrity regulations promulgated by the federal Pipeline and Hazardous
8 Materials Safety Administration (“PHMSA”) and to continue to provide
9 cost effective, safe, and reliable natural gas service to its growing
10 customer base within the State of North Carolina. The Company’s
11 proposed rate increase will allow the Company to recover prudently
12 incurred costs, to compete in the capital markets for needed capital, and
13 preserve its financial standing with both equity and debt investors as well
14 as the credit rating agencies, to the long-term benefit of customers.

15 **Q. What role does capital structure and financial stability play in**
16 **Piedmont’s ability to provide safe, reliable, and economic natural gas**
17 **service to its customers?**

18 A. Financial stability and consistent access to capital are necessary for
19 Piedmont to provide safe, reliable, and economical service to its
20 customers. Piedmont strives at all times to maintain financial stability,
21 including investment grade credit ratings, to ensure reliable access to
22 capital on reasonable terms. Our ability to access needed capital on
23 reasonable terms is supported by the following specific objectives of the

1 Company: (a) maintaining a strong (52% or higher) equity component in
2 our capital structure; (b) pursuing timely recovery of prudently incurred
3 costs of providing utility service; (c) maintaining sufficient cash-flows to
4 meet our obligations; and (d) maintaining an adequate rate of return on
5 common equity.

6 **Q. What is Piedmont's proposed capital structure in this proceeding?**

7 A. As shown on my Exhibit_(KWN-1), I recommend a capital structure
8 consisting of 52.00% equity, 0.55% short-term debt and 47.45% long-term
9 debt.

10 **Q. Why are you recommending this pro forma capital structure?**

11 A. This capital structure represents an appropriate amount of risk due to
12 leverage (48% or lower) while minimizing the weighted average cost of
13 capital. Approval of the proposed capital structure will help Piedmont
14 maintain its credit quality, the importance of which I will describe in
15 subsequent sections of my testimony and is consistent with Duke Energy's
16 target credit ratings for Piedmont. The short-term debt component of the
17 recommended capital structure is a thirteen-month average value of
18 Piedmont's natural gas inventory balance. Procurement of natural gas is a
19 significant and necessary part of Piedmont's short-term indebtedness
20 under normal operating conditions. The Commission has approved this
21 method of calculating the short-term debt component of Piedmont's
22 capital structure in multiple previous general rate case dockets.

23 **Q. Does the Company's actual financial capital structure vary over time?**

1 A. Yes, it does. The specific debt/equity ratio will vary over time, depending
2 on a variety of factors, including, but not limited to, the timing and size of
3 capital investments and payments of large invoices, debt issuances,
4 seasonality of earnings, changes to inventory balances, equity infusions
5 received from parent, and dividend payments made to the parent company.
6 Achieving an approved regulatory capital structure as recommended above
7 is consistent with the Company's financial objectives and overall plan to
8 finance operations at favorable rates for customers. Piedmont will manage
9 its capital structure within a reasonable range of this base. As of
10 December 31, 2020, Piedmont's capital structure, including a thirteen-
11 month average of natural gas inventory as a proxy for short-term debt, was
12 50.59% equity, 48.74% long-term debt and 0.67% short-term debt.
13 Looking forward, the equity percentage of Piedmont's capital structure, as
14 shown in Exhibit_(KWN-1), is projected to be 52.56% and 52.87% for
15 year end 2021 and 2022, respectively.

16 **Q. What changes in the Company's capital structure will occur after**
17 **December 31, 2020, specifically over the next two years?**

18 A. As reflected on Exhibit_(KWN-1), Piedmont's projected equity
19 component of the Company's regulatory capital structure will range
20 between approximately 51% and 53% over the next two years. On March
21 11, 2021, Piedmont issued new long-term debt of \$350 million, 10-year
22 senior unsecured notes. Also in March 2021, Piedmont received a \$325
23 million equity infusion from its parent. In the second quarter of 2022,

1 Piedmont is expected to issue \$300 million of long-term debt. Equity will
2 also increase due to earnings achieved and retained in 2021 and 2022.

3 **Q. What pro forma cost rates did you attribute to each component of the**
4 **Company's capital structure?**

5 A. I utilized a cost rate of 4.09% for long-term debt, 0.47% for short-term
6 debt, and 10.25% for common equity.

7 **Q. How were these cost rates determined?**

8 A. For the Company's cost of common equity, I utilized the cost calculated
9 and recommended by Piedmont's ROE Witness Dylan D'Ascendis in his
10 direct testimony. For long-term debt, I used Piedmont's projected
11 embedded cost of long-term debt as of December 31, 2021, which
12 includes the previously referenced long-term debt offering in March 2021.
13 For short-term debt, the rate is based on the Company's projected 2021
14 average borrowing rate under the Utility Money Pool Agreement. The
15 derivation of these debt rates is shown on Exhibit_(KWN-2) and
16 Exhibit_(KWN-3).

17 **Q. How does Piedmont's proposed capital structure and cost rates**
18 **compare to its most recently approved capital structure?**

19 A. In Piedmont's rate case in 2019, the Commission approved the following
20 capital structure, which provides part of the basis for our current rates:
21 47.15% long term debt, 0.85% short term debt and 52.00% common
22 equity. The approved cost rates from that proceeding were 4.41%, 2.72%
23 and 9.70%, respectively.

1 **Q. Please explain credit quality and credit ratings, and how they are**
2 **determined.**

3 A. Credit quality (or creditworthiness) is a term used to describe a company's
4 overall financial health and its willingness and ability to repay all financial
5 obligations in full and on time. An assessment of Piedmont's
6 creditworthiness is performed by two major credit rating agencies,
7 Standard & Poor's ("S&P") and Moody's Investors Service ("Moody's").
8 Many qualitative and quantitative factors go into this assessment.
9 Qualitative aspects may include an assessment of the regulatory climate in
10 which Piedmont operates, Piedmont's record for delivering on its
11 commitments, the strength of its management team, its operating
12 performance, and the strength of its service area. Quantitative measures
13 are primarily based on operating cash flow and focus on the level at which
14 Piedmont maintains debt leverage in relation to its generation of cash and
15 its ability to meet its fixed obligations (interest and principal payments in
16 particular) on the basis of internally-generated cash. The percentage of
17 debt to total capital is another example of a quantitative measure.
18 Creditors and credit rating agencies view both qualitative and quantitative
19 factors in the aggregate when assessing the credit quality of a company.

20 **Q. What is the role of regulation in the determination of the financial**
21 **strength of a utility company?**

22 A. Investors, investment analysts, and credit rating agencies regard
23 constructive regulation as one of the most important factors in assessing a

1 utility company’s financial strength. These stakeholders want to be
 2 confident the Company operates in a stable regulatory environment that
 3 will allow the Company to recover prudently-incurred costs and earn a
 4 reasonable return on investments necessary to meet the demand,
 5 reliability, service, safety, and environmental requirements of its
 6 customers and service area. Important considerations include the allowed
 7 rate of return, the cash quality of earnings, the timely recovery of capital
 8 investments, the stability of earnings, and the strength of its capital
 9 structure. Positive consideration is also given for utilities operating in
 10 states where the regulatory process is streamlined, the time lag in capital
 11 investment recovery is minimized through cost recovery mechanisms such
 12 as riders and trackers, and outcomes are equitably balanced between
 13 customers and investors.

14 **Q. How are Piedmont’s outstanding securities currently rated by the**
 15 **credit rating agencies?**

16 A. As of the date of this testimony, Piedmont’s senior unsecured credit
 17 ratings and outlooks are as follows:

Rating Agency	S&P	Moody’s
Senior Unsecured	BBB+	A3
Outlook	Stable	Stable

18 Obligations carrying a credit rating in the “A” category are considered
 19 strong, investment-grade securities subject to low credit risk for the
 20 investor. “A” rated debt is presumed to be somewhat susceptible to

1 changes in circumstances and economic conditions; however, the debt
2 issuer's capacity to meet its financial commitments is considered strong.
3 By contrast, ratings in the "BBB" (one level weaker than the "A"
4 category) category are considered adequate and have less assurance of
5 access to the capital markets in challenging market conditions.

6 S&P may also modify its ratings with the use of a plus or minus
7 sign to further indicate the relative standing within a major rating
8 category. An "A+" credit rating is at the higher end of the "A" credit
9 rating category and an "A-" is at the lower end of the category. Moody's
10 credit rating assignments use the numbers "1", "2" and "3", with the
11 numbers "1" and "3" analogous to a "+" and "-", respectively. For
12 example, Moody's credit ratings of "A2" and "A3" would be analogous to
13 "A" and "A-" credit ratings at S&P.

14 The ratings outlook assesses the potential direction of a long-term
15 credit rating over an intermediate term (typically six months to two years).
16 Piedmont's "Stable" outlook at S&P and Moody's is an indication the
17 credit ratings are not likely to change at this time, however a change in
18 outlook or rating could occur if the Company experiences a change in its
19 business or financial risk.

20 **Q. Have there been any recent changes to Piedmont's credit ratings or**
21 **outlooks at S&P or Moody's?**

22 A. Yes. On December 15, 2020, S&P revised its outlook to "negative" from
23 "stable" on Duke Energy and subsidiaries, including Piedmont. On

1 January 26, 2021, S&P downgraded the senior unsecured ratings of Duke
2 Energy and subsidiaries, including Piedmont, to “BBB+” from “A-” and
3 returned the outlook to “stable.”

4 S&P utilizes a family rating methodology, whereby the credit
5 rating and outlook of the parent company, Duke Energy, is applied to each
6 of the parent’s subsidiaries. In its January 2021 Duke Energy report,¹
7 S&P attributed the downgrade to weaker consolidated financial metrics
8 primarily as a result of the coal ash settlement reached at Duke Energy
9 Carolinas and Duke Energy Progress and Duke Energy’s elevated capital
10 expenditure plan. S&P’s “stable” outlook is predicated on the expectation
11 that Duke Energy and subsidiaries will be able to manage regulatory risk
12 while capital spending remains high as Duke Energy continues its energy
13 transformation to reduce its carbon footprint.

14 **Q. What is the impact to Piedmont’s expected long-term borrowing costs**
15 **going forward with a one-notch downgrade by S&P at Duke Energy**
16 **and its subsidiaries?**

17 A. Since the one-notch downgrade by S&P on January 26, 2021 to
18 Piedmont’s senior unsecured rating, there has been no material impact to
19 Piedmont’s credit spreads. With Moody’s leaving its “A3” senior
20 unsecured credit rating on Piedmont unchanged, a sophisticated investor in
21 senior unsecured bonds will evaluate the creditworthiness of that specific

1 S&P Global Ratings, Research Update, “Duke Energy Corp. And Subsidiaries Downgraded To ‘BBB+’ On Coal Ash Settlement, Outlook Stable,” January 26, 2021 (“January 2021 Duke Energy Corporation Report”)

1 utility when determining the appropriate pricing level on new debt
2 offerings. For these reasons, a one-notch downgrade at Piedmont by S&P
3 due solely to its family rating methodology will not likely have any
4 meaningful impact to Piedmont's cost of debt going forward.

5 **Q. What benefits do customers of Piedmont enjoy by being a part of the**
6 **broader Duke Energy family?**

7 A. Customers of Piedmont enjoy several benefits derived from Piedmont's
8 status as a subsidiary of the larger Duke Energy portfolio of utilities.
9 Duke Energy's \$8.0 billion Master Credit Facility and \$6.0 billion
10 commercial paper program provide Piedmont greater access to liquidity
11 from highly reputable financial institutions and in the short-term money
12 markets. In addition, the Utility Money Pool Agreement allows Piedmont
13 to borrow short-term funds from participating entities at the "AA"
14 Industrial Commercial Paper Composite Rate, which is a lower rate than
15 would otherwise be available to Piedmont as a stand-alone issuer. Access
16 to deeper pools of liquidity at lower borrowing costs have been
17 particularly beneficial as uncertainty from the COVID-19 pandemic led to
18 extreme market dislocation and heightened volatility in the first half of
19 2020. Piedmont also benefits from lower overhead costs as a result of
20 shared corporate services.

21 **Q. Do Piedmont's customers benefit from the Company's strong credit**
22 **ratings?**

23 A. Yes. To ensure reliable and cost-effective service, compliance with

1 federal pipeline safety regulations and to fulfill its obligations to serve
2 customers, the Company must continuously plan and execute significant
3 capital projects. This is the nature of regulated, capital-intensive
4 industries like natural gas utilities. The Company must be able to operate
5 and maintain its business without interruption and refinance maturing debt
6 on time, regardless of financial market conditions. The financial markets
7 can experience periods of volatility, and Piedmont must be able to finance
8 its needs throughout such periods. Strong investment-grade credit ratings
9 provide Piedmont with greater access to the capital markets on reasonable
10 terms during such periods of volatility. Any factors that negatively impact
11 Piedmont's credit ratings, including an inadequate allowed ROE or an
12 inadequate equity percentage of the capital structure, have the potential to
13 reduce the Company's access to the capital markets and to increase the
14 cost of such access.

15 Approval of the Company's request in this case will support its
16 financial objectives by allowing timely recovery of its investments in plant
17 and equipment, providing sufficient cash flows to fund necessary capital
18 expenditures and service debt.

19 **Q. What strengths and weaknesses have the credit rating agencies**
20 **identified with respect to Piedmont?**

21 A. The rating agencies believe Piedmont operates in generally constructive
22 regulatory environments that support long-term credit quality, and they
23 also view the Company's customer growth profile and system integrity

1 investments as credit supportive. However, the rating agencies have
2 identified a number of challenges Piedmont faces in maintaining its credit
3 ratings. In its July 2020 credit opinion, Moody's identified several factors
4 that could adversely impact Piedmont's financial metrics (specifically,
5 cash flow coverage ratios), which, in turn, could affect its ratings.²

6 Capital Expenditures and Tax Reform: Moody's notes elevated capital
7 expenditures, the continued impact of federal tax reform, and the
8 associated leverage to fund customer growth and system integrity
9 investments will continue to pressure key credit metrics.

10 Environmental and Social Considerations: Moody's includes in their
11 credit assessment of Piedmont the impact of regulations on carbon and
12 methane through the production of energy. From a social perspective,
13 Moody's assesses the risk the coronavirus pandemic poses to the health
14 and safety of employees, and the potential impact the pandemic continues
15 to have if unemployment remains elevated. Moody's states, "...financial
16 and risk management policies including a strong financial profile are
17 important characteristics for managing environmental and social risks."³

18 **Q. What role do equity investors play in the financing of Piedmont, and**
19 **how will the outcome of this case impact these investors?**

20 A. Equity investors provide the foundation of a company's capitalization by
21 providing significant amounts of capital, for which an appropriate

2 See Moody's Investors Service, Credit Opinion, "Piedmont Natural Gas Company, Inc. – Update to
Credit Analysis," July 22, 2020 ("July 2020 Piedmont Report")

3 July 2020 Piedmont Report, p.4

1 economic return is required. Piedmont compensates equity investors for
2 the risk of their investment by targeting fair and adequate returns, stable
3 cash flows, and earnings growth - all necessary to preserve access to
4 equity capital. Returns to equity investors are realized only after all
5 operating expenses and fixed payment obligations (including principal and
6 interest) of the business have been paid. Because equity investors are the
7 last to receive surplus earnings and cash flows, their investment involves
8 significantly more risk. For this reason, equity investors require a higher
9 return for their investment. Equity investors in Duke Energy expect
10 utilities like Piedmont to recover their prudently incurred costs and earn a
11 fair and reasonable return for their investors. The Company's proposal in
12 this proceeding supports this investor expectation.

13 **Q. What effect does capital structure and return on equity have on credit**
14 **quality?**

15 A. Capital structure and return on equity are important components of credit
16 quality. As mentioned in the previous answer, the greater the equity
17 component of capitalization, the safer the returns are to debt investors,
18 which translates into higher credit quality and lower borrowing costs. In
19 addition, the allowed return on equity is a key component in the
20 generation of earnings and cash flows. An adequate return on equity helps
21 ensure equity investors receive fair compensation for their investment
22 while also helping to protect the interests of debt investors. A strong
23 capital structure and an adequate return on equity provide balance sheet

1 protection and cash flow generation to support high credit quality. High
2 credit quality creates financial flexibility by improving access to the
3 capital markets on reasonable terms, and ultimately lower debt financing
4 costs.

5 **Q. Do you believe Piedmont's capital structure has an adequate equity**
6 **component to enable the Company to achieve its financial strength**
7 **and credit quality objectives?**

8 A. Yes. Piedmont' requested equity component of 52% enables it to maintain
9 current credit ratings and financial strength and flexibility. Like many
10 utilities, Piedmont is in a period of significant capital investment
11 necessary to provide cost-effective, safe, and reliable service to its
12 customers in a period of rising costs, growing customer load and evolving
13 state and federal pipeline safety and integrity requirements. The
14 magnitude of its capital requirements dictates the need for a strong equity
15 component of the Company's capital structure in order to assure access to
16 capital funding at reasonable terms.

17 **Q. Please describe Piedmont's future capital requirements.**

18 A. Piedmont faces substantial capital needs over the next several years in
19 order to comply with pipeline safety and integrity regulations, refurbish,
20 replace and upgrade aging infrastructure, support its growing customer
21 base, construct additional on-system storage assets, and satisfy its debt
22 maturities.

23 **Q. How will Piedmont's capital requirements be funded?**

1 A. Piedmont's capital requirements are expected to be funded from internal
2 cash generation, the issuance of debt, and equity contributions from its
3 parent. It is important to remember that Duke Energy also has dividend
4 expectations from its shareholders. Duke Energy's corporate dividend
5 policy targets a mid-point 70 percent payout ratio, based on adjusted
6 diluted earnings per share. Piedmont and other utility subsidiaries of Duke
7 Energy are expected to support this dividend policy over time.

8 **Q. Do you anticipate Piedmont will be able to access sufficient debt and**
9 **equity to support its ongoing operations without any problems?**

10 A. I do, but the reasonableness of the terms upon which Piedmont can access
11 those markets depends largely on Piedmont continuing to maintain
12 favorable credit ratings. That, in turn, depends on the regulatory treatment
13 Piedmont receives from the state public service commissions that regulate
14 the Company. This is particularly true for this rate case and this
15 Commission as North Carolina accounts for over 70% the Company's rate
16 base and earnings potential.

17 **Q. Can you explain?**

18 A. Yes. Piedmont's investors and creditors carefully evaluate how we are
19 regulated by this Commission, including what levels of allowed return are
20 approved in our general rate proceedings. They are aware that allowed
21 rates of return may vary over time with changes in general economic
22 factors, but they also believe we operate in a generally constructive
23 regulatory environment – a conclusion with which we agree and which we

1 believe is a significant benefit to our customers. Any change in this
2 assessment could raise capital costs for Piedmont and its customers. This
3 vulnerability is especially acute in light of Piedmont's significant and
4 ongoing investments in capital projects required to meet federal safety and
5 integrity management requirements.

6 The Company's management recognizes that the Commission
7 must balance the interests of customers with those of the Company when
8 setting rates of return and capital structure in any general rate proceeding.
9 At the same time, it is important to consider the long-term consequences
10 these decisions can have on the terms under which Piedmont can access
11 capital markets.

12 **Q. Does this conclude your pre-filed direct testimony?**

13 **A. Yes.**

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Rebuttal Testimony and Exhibit
of
Karl W. Newlin**

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

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

2 A. My name is Karl Newlin. My business address is 550 South Tryon Street,
3 Charlotte, North Carolina. I am employed by Duke Energy Business
4 Services, LLC as Senior Vice President, Corporate Development and
5 Treasurer.

6 **Q. Did you file direct testimony in this proceeding?**

7 A. Yes, I filed direct testimony supporting Piedmont Natural Gas Company,
8 Inc.'s ("Piedmont" or the "Company") financial objectives, capital
9 structure, and cost of capital.

10 **Q. What is the purpose of your rebuttal testimony?**

11 A. The purpose of my rebuttal testimony is to respond to portions of the
12 testimony submitted by Mr. John R. Hinton, witness on behalf of the
13 Public Staff of the North Carolina Utilities Commission ("Public Staff")
14 and Mr. Kevin W. O'Donnell, witness on behalf of Carolina Utility
15 Customers Association, Inc. ("CUCA"). In my testimony I will address
16 their respective recommendations on the Company's appropriate capital
17 structure.

18 **Q. Do you have any exhibits to your rebuttal testimony?**

19 A. Yes. I have one exhibit, marked as Rebuttal Exhibit KWN-1, attached to
20 my rebuttal testimony.

21 **Q. Was this exhibit prepared by you or under your direction?**

22 A. Yes.
23

1 Q. Please summarize the key points made by witness Hinton and witness
2 O'Donnell regarding your recommendation that the Company's
3 appropriate equity ratio be 52% equity.

4 A. The key points are as follows:

5 • Witness Hinton claims that the Company's recommended equity
6 ratio of 52% is excessive, is not necessary to maintain Piedmont's
7 credit ratings, and does not reflect Piedmont's historical capital
8 structure. Instead, witness Hinton recommends the Commission
9 reduce the Company's equity ratio from 52% (as currently
10 approved under Docket G-9, Sub 743) to 50.54% based on a 13-
11 month historical average of Piedmont's capital structure as of May
12 31, 2021.

13 • Witness O'Donnell recommends a 50% equity ratio. To support
14 his recommendation, Mr. O'Donnell points to the following three
15 comparative equity ratios:

16 1. The "average" capital structure calculated for the
17 companies he utilized as "proxy" companies for the
18 purposes of calculating Piedmont's Return on Equity
19 ("ROE");

20 2. Duke Energy Corporation's ("Duke Energy") average
21 equity ratio based on the concept of double leverage; and

22 3. The 2020 and 15-year (2006-2020) historical average
23 allowed annual common equity ratio granted by state
24 regulators for natural gas companies.

1 **Q. Witness Hinton suggests that Piedmont’s 52% equity ratio is excessive**
 2 **and is not necessary in order to maintain the Company’s “A3” credit**
 3 **rating and “stable” outlook by Moody’s. Do you agree with witness**
 4 **Hinton?**

5 A. No. Mr. Hinton points to Piedmont’s average Cash Flow from Operations
 6 pre-working capital to Debt (CFO pre-WC to Debt) metric of 14.1% as the
 7 basis for his argument that Piedmont’s 52% equity ratio is excessive.
 8 Below is the table from page 20 of witness Hinton’s testimony with
 9 Moody’s CFO pre-WC to Debt metrics utilized in his average calculation.

Moody's Financial Scorecard	Cash Flow from Operations / Debt	Debt / Book Capitalization
Mar. 31, 2021	14.9 times	43.6%
Dec. 31, 2020	13.4 times	48.6%
Dec. 31, 2019	16.3 times	48.3%
Dec. 31, 2018	11.9 times	47.8%

10
 11 Moody’s Investors Service states in its July 16, 2021 Credit Opinion that
 12 Piedmont’s credit metrics “...are weak and have been adversely impacted
 13 by the negative cash flow impact of tax reform and increased leverage due
 14 to a large capital program.” In the same credit opinion, citing what
 15 “Factors that could lead to a downgrade,” Moody’s states “...if we expect
 16 the CFO pre-WC to debt ratio to be below 14% for an extended
 17 period...”¹ This clearly demonstrates that Moody’s downgrade threshold

¹ See Moody’s Investors Service, Credit Opinion, “Piedmont Natural Gas Company, Inc. – Update to Credit Analysis,” July 16, 2021 (“July 2021 Piedmont Report”)

1 for Piedmont's "A3" credit rating is 14% for the Company's CFO pre-WC
2 to debt metric. Piedmont's average CFO pre-WC to Debt of 14.1%, as
3 calculated by witness Hinton, is only 10 basis points above Moody's
4 downgrade threshold and shows the Company is already operating with
5 very minimal cushion. Any reduction to the Company's currently
6 approved equity ratio of 52% would result in higher long-term leverage,
7 higher interest expense, and lower CFO pre-WC. This combination of
8 lower CFO pre-WC and higher debt would weaken the Company's already
9 strained CFO pre-WC to debt ratio.

10 Witness Hinton further states that "the fact that Piedmont's
11 average Cash Flow metric is above 14 times [sic] suggests that Piedmont
12 does not require a 52.00% common equity ratio in order to maintain its
13 "A3" credit rating..." However, Moody's in its July 16, 2021 opinion
14 wrote that "[g]oing forward, on average, we expect Piedmont's ratio of
15 CFO pre-WC to debt to be between 15% and 16%."² Clearly, 14% is not
16 within 15% - 16% as Moody's expects, therefore a lowering of the equity
17 component of capital structure as witness Hinton suggests would be
18 detrimental to credit quality, Moody's expectations and potentially the A3
19 rating.

20 **Q. Do you agree with witness Hinton's recommendation that a 50.54%**
21 **equity ratio is appropriate for Piedmont's regulatory capital**
22 **structure?**

23 **A.** No, I do not. Witness Hinton's recommended 50.54% equity ratio is

² July 2021 Piedmont Report, p. 2

1 based on a 13-month historical average as of May 31, 2021. However, in
2 March 2021, Piedmont received a \$325 million equity infusion from Duke
3 Energy to help fund the Company's capital needs for the year. Since this
4 equity infusion was performed in March, it is only included in three of the
5 thirteen months used in Mr. Hinton's historical average capital structure
6 calculation. Thus, on its face, Mr. Hinton's calculation does not account
7 for significant equity increases currently underlying Piedmont's
8 capitalization. As I will describe next, Piedmont's projected capital
9 structure shown in Exhibit_(KWN-1) to my direct testimony fully
10 accounts for this equity infusion and is a more accurate reflection of the
11 Company's actual capital structure.

12 Piedmont's regulatory capital structure as of December 31, 2020,
13 consisted of 50.59% equity, 48.74% long-term debt and 0.67% short-term
14 debt. To illustrate the variability of Piedmont's capital structure from
15 December 31, 2020 to December 31, 2022, I presented three additional
16 snapshots of projected capital structures in Exhibit_(KWN-1). This
17 exhibit was prepared to account for planned capital markets activity
18 including a \$350 million long-term debt financing and the previously
19 mentioned \$325 million equity infusion in March 2021 and to reflect the
20 future increases in the equity account from retained earnings generated by
21 the Company. As illustrated in Exhibit__(KWN-1), the equity percentage
22 is anticipated to increase to 52.56% by December 31, 2021 as a result of
23 accumulating retained earnings over the next few months with no change
24 in Piedmont's debt profile. Moving forward in the 2-year planning

1 horizon, the equity ratio is projected to strengthen again to 52.87% as of
2 December 31, 2022 as retained earnings continue to build and balance
3 against another \$300 million long-term debt financing anticipated for the
4 second quarter of 2022 to support the capital spending requirements of
5 the Company. This pattern of fluctuations within a reasonable band of a
6 utility's allowed equity occurs throughout the utility industry. In the case
7 of Piedmont, we expect this band to fall between approximately 50.5%
8 and 53% as presented in Exhibit_(KWN-1). For this reason, the
9 Company believes it is prudent to seek and receive a 52% equity
10 percentage for regulatory capital structure purposes.

11 **Q. What is the consequence of setting Piedmont's equity ratio too low**
12 **for ratemaking purposes?**

13 A. It increases our risk, reduces cash flow and potentially imperils our
14 existing credit ratings. From the perspective of analysts and potential
15 investors, it makes us a less desirable investment. These impacts would
16 ultimately lead to higher financing costs and eventually increase customer
17 rates.

18 **Q. Witness Hinton states Piedmont's average common equity ratio since**
19 **its merger with Duke Energy in October 2016 was approximately**
20 **50.5%, which is very close to the 13-month average as of May 31,**
21 **2021. Do you believe this historical average is reflective of the**
22 **Company's actual capital structure?**

23 A. No. Prior to its 2019 general rate case, the Company's regulatory
24 approved capital structure consisted of a 50.66% equity ratio, which was

1 set in its 2013 general rate case, Docket No. G-9, Sub 631. Piedmont's
2 current 52% regulatory equity ratio was not approved until October 31,
3 2019 in Docket No. G-9, Sub 743. Piedmont seeks to manage its capital
4 structure within a close range of its regulatory approved capital structure
5 and plans to do so in future periods as shown in Exhibit_(KWN-1).
6 Therefore, it is reasonable to expect the Company's capital structure from
7 2013 to 2019 would have closely tracked to the approved 50.66% equity
8 ratio at the time. However, as shown in Rebuttal Exhibit KWN-1, from
9 January 2018 through June 2021, Piedmont's monthly equity ratio
10 fluctuated between 47.9% and 55.1% with a mid-point of 51.5% and an
11 average equity ratio of 51.1%.

12 **Q. Do you agree with witness O'Donnell's recommendation that**
13 **Piedmont's appropriate equity ratio is 50%?**

14 A. No, I do not, because the basis from which Mr. O'Donnell forms his
15 recommendation is flawed. More specifically, most of the comparative
16 equity ratios Mr. O'Donnell points to are not applicable to Piedmont's
17 equity ratio for rate-setting purposes. Table 5 on page 36 of Mr.
18 O'Donnell's testimony summarizes his findings and is used to frame his
19 recommendation that Piedmont's requested capital structure is "not as
20 reasonable as a recommended capital structure of 50.00% for rate making
21 purposes."

22 **Q. Mr. O'Donnell first compares Piedmont's capital structure to the**
23 **same proxy group utilized to calculate his recommended ROE for**
24 **Piedmont. Do you have any concerns with this approach?**

1 A. Yes, while a proxy group average could potentially be a valid approach for
2 comparing equity ratios, Mr. O'Donnell's proxy group is primarily
3 comprised of utility holding companies where the equity ratios will be
4 impacted by the consolidated capital structure of all regulated and non-
5 regulated operations. It is inappropriate to compare the Company's capital
6 structure to these groups. The assets obtained by Piedmont to serve
7 customers were financed in a manner consistent with the Company's
8 capital structure as a regulated utility, not that of a parent level holding
9 company. Holding company capital structures differ from regulated utility
10 operating company capital structures for a variety of reasons, and the risk
11 profile for a consolidated entity can be very different than the risk profile
12 of a single subsidiary. Arbitrarily imposing a holding company capital
13 structure upon Piedmont would increase its leverage (and, therefore, risk),
14 reduce its cash flows, and erode credit quality – all to the detriment of the
15 Company's customers.

16 **Q. Company witness D'Ascendis uses holding companies for his ROE**
17 **analysis. Why does that make sense for ROE but not for capital**
18 **structure?**

19 A. Cost of Equity models require observable stock price data, which only
20 occur at the parent level, and, therefore, those models must utilize parent
21 company data. The appropriate capital financing structure for a given
22 utility operating company is not dependent upon that kind of information,
23 and there is no reason to conflate capital structure and ROE in this way.

1 **Q. What do you think represents an appropriate comparison group for**
2 **purposes of analyzing Piedmont's capital structure?**

3 A. If the objective is to compare Piedmont's capital structure against those of
4 other companies, I believe a more appropriate group of companies against
5 which to compare is a set of regulated utility operating companies.
6 However, a meaningful comparison may still be complicated by the
7 unique facts and circumstances surrounding each utility capital structure.
8 Capital structure should not be viewed in isolation; it is part of an overall
9 structure which considers capital structure, allowed ROE, and the various
10 mechanisms used to recover costs.

11 **Q. Please briefly describe witness O'Donnell's position that Piedmont's**
12 **capital structure should be comparable to the capital structure of**
13 **Duke Energy.**

14 A. Mr. O'Donnell contends that Duke Energy is using double leverage to
15 increase the profits of Piedmont. The concept of double leverage is that of
16 a holding company borrowing money (i.e., incurring debt) and injecting
17 the proceeds into the subsidiary operating company. This downstream
18 flow of money is then treated as equity by the subsidiary. The implication
19 of the double leverage concept is that this subsidiary equity is in some part
20 truly debt and therefore makes the subsidiary enterprise more levered than
21 it would appear. Mr. O'Donnell compares Duke Energy's capital structure
22 to Piedmont, and notes that Duke Energy's capital structure indicates more
23 debt than Piedmont.
24

1 Q. **Should double leverage be considered when establishing Piedmont's**
2 **capital structure?**

3 A. No. As I stated earlier in my testimony, Piedmont is a regulated utility
4 operating company, not a parent-level holding company. The Company is
5 capitalized in a manner that is consistent with similar, regulated utility
6 operating companies, and its actual capital structure is managed around its
7 current approved equity ratio of 52.0%. As a parent-level holding
8 company, Duke Energy is not regulated. Duke Energy will finance its
9 capital needs with the objective of maintaining a strong balance sheet that
10 supports its investment grade credit ratings, while utilizing the most
11 efficient, least cost option for raising capital.

12 For the same reasons that it is inappropriate to use a proxy group
13 of holding companies, it is inappropriate to apply a holding company
14 capital structure to Piedmont. Furthermore, arbitrarily imposing a holding
15 company capital structure on Piedmont would have detrimental effects on
16 the Company's credit profile and ultimately customer rates. The more
17 debt that is put into the capital structure, the more it will dilute cash flows
18 and weaken credit coverage ratios – the consequence of which would
19 weaken the Company's credit profile and have a negative impact on
20 Piedmont's credit ratings.

21 Since the merger with Piedmont in October 2016, Duke Energy
22 has infused equity on several occasions to manage the Company's capital
23 structure within a reasonable range of its regulatory approved capital
24 structure, while ensuring Piedmont is able to meet its significant capital

1 obligations. As shown in the tables below, however, Piedmont regularly
2 raised capital via the equity capital markets in the five years prior to the
3 merger – consistent with Duke Energy’s equity infusions since the merger.
4 In addition, Duke Energy, since 2017 has issued approximately \$5.5
5 billion of common stock via discrete public offerings, Duke Energy’s
6 dividend reinvestment program (DRIP) and its at-the-market (ATM)
7 equity program.

Piedmont Equity Issuances		Equity Infusions from DE Corp.	
5 years pre-merger		5 years post-merger	
(\$ Millions)		(\$ Millions)	
2012	\$22	2017	\$0
2013	\$120	2018	\$300
2014	\$75	2019	\$150
2015	\$85	2020	\$0
2016	\$139	2021	\$325
Average	\$88	Average	\$155

8
9 **Q. Lastly, Mr. O’Donnell compares Piedmont’s requested capital**
10 **structure to the 15-year historical average and 2020 average allowed**
11 **annual common equity ratios granted by state regulators for natural**
12 **gas utilities. Please discuss these comparisons in more detail.**

13 **A.** Mr. O’Donnell’s analysis shows that from 2006 through 2020, the average
14 common equity ratio granted to natural gas companies over this period
15 was 48.05%. In fact, Chart 4 of Mr. O’Donnell’s testimony illustrates
16 how common equity ratios across the country have trended over 400 basis
17 points higher when comparing the average equity ratio in 2020 back to the
18 average equity ratio in 2006. Mr. O’Donnell also states the 10-year
19 historical average of allowed equity ratios is 51.61%; however, he

1 excludes this time period from his Table 5 on page 36 of his testimony,
2 which he uses to form his recommendation for a 50.0% equity component
3 of the capital structure.

4 Of the many equity ratio comparisons in Table 5 of witness
5 O'Donnell's testimony, the inclusion of the 2020 average equity ratio
6 approved by regulators of 52.34% is most applicable in determining
7 Piedmont's appropriate equity ratio. If you look at the more recent years
8 in Chart 4 of Mr. O'Donnell's testimony, you will notice that from 2018 to
9 2020, the average allowed common equity ratios ranged from 51.56% to
10 52.34%, with a 3-year average ratio of 52.21%. This time period is
11 significant as it is post 2017 federal tax reform, which negatively impacted
12 Piedmont's cash flow credit metrics. In fact, Regulatory Research
13 Associates ("RRA") Regulatory Focus, *Major Rate Case Decisions January –*
14 *June 2021* notes that "the negative cash flow impact of 2017 federal tax
15 reform raised concerns regarding utility liquidity and credit metrics...and
16 the average authorized equity ratios adopted by utility commissions in
17 2019 were modestly higher than the levels in 2018 and 2017."

18 **Q. Do you continue to believe that 52% is the appropriate equity**
19 **component for Piedmont's capital structure?**

20 **A.** Yes. As noted in my direct testimony, the specific debt/equity ratio will
21 vary over time, depending on a variety of factors, including, among other
22 things, the timing and size of capital investments and payments of large
23 invoices, debt issuances, seasonality of earnings, equity infusions from the
24 parent company and dividend payments to the parent company. However,

1 a regulatory capital structure comprised of 52% equity is consistent with
2 the Company's financial objectives and overall plan to maintain its ability
3 to finance operations at rates favorable for customers. A healthy capital
4 structure and an adequate return on equity provide balance sheet
5 protection and cash flow generation to support high credit quality. High
6 credit quality creates financial flexibility by providing more readily
7 available access to the capital markets on reasonable terms, and ultimately
8 lower debt financing costs for the benefit of customers.

9 **Q. Does this conclude your pre-filed rebuttal testimony?**

10 A. Yes.

1 MR. JEFFRIES: And we would also request
2 that Mr. Newlin's prefiled exhibits with his direct
3 testimony consisting of Exhibit KWN-1 through
4 KWN-3, and his Rebuttal Exhibit KWN-1 be identified
5 as marked as well.

6 CHAIR MITCHELL: All right. Hearing no
7 objection to the motion, the exhibits to witness
8 Newlin's direct testimony and rebuttal testimony
9 should be marked for identification as they were
10 when prefiled.

11 MR. JEFFRIES: Thank you,
12 Chair Mitchell.

13 (Exhibits KWN-1 through KWN-3 and
14 Rebuttal Exhibit KWN-1, were identified
15 as they were marked when prefiled.)

16 Q. Mr. Newlin, have you prepared a summary of
17 your direct and rebuttal testimony?

18 A. I have.

19 Q. Could you please provide those to the
20 Commission?

21 A. Yes.

22 My name is Karl Newlin. I am the senior vice
23 president corporate development and treasurer for Duke
24 Energy Business Services. I prefiled direct testimony

1 in this docket on March 22, 2021, in support of
2 Piedmont's application for a general rate increase. I
3 also submitted prefiled rebuttal testimony on
4 August 25, 2021, in this proceedings.

5 My prefiled direct testimony addresses
6 Piedmont's financial objectives, capital structure, and
7 cost of capital. I also discussed the Company's
8 current credit ratings and forecasted capital needs.
9 My direct testimony emphasizes the importance of
10 Piedmont's ability to meet its financial objectives and
11 how customers benefit from Piedmont maintaining
12 financial stability and strong credit ratings.

13 My direct testimony provides an overview of
14 Piedmont's substantial capital needs to maintain
15 compliance with federal pipeline safety reliability
16 regulations, and to construct new pipelines to serve
17 its growing North Carolina markets. My direct
18 testimony explains how the Company competes for capital
19 in the open market, and must appeal to debt and equity
20 investors to track the capital needs. I discuss how
21 investors have a variety of investment opportunities
22 available to them, and that it's critically important
23 that a company, such as Piedmont, maintain strong
24 investment-grade credit ratings to ensure access to

1 capital on reasonable terms.

2 My direct testimony also demonstrates that
3 the Company's proposed rate increase will allow it to
4 recover prudently incurred costs, raise capital at
5 competitive terms, and preserve the Company's financial
6 standing with both equity and debt investors as well as
7 the credit rating agencies to the long-term benefit of
8 customers.

9 My direct testimony is supported by three
10 exhibits. My first exhibit shows the calculation of
11 Piedmont's actual and projected capital structure in
12 this proceeding. My second exhibit shows the
13 derivation of the pro forma embedded cost of long-term
14 debt. My third exhibit shows the derivation of the
15 pro forma embedded cost of short-term debt.

16 I also submitted prefiled rebuttal testimony
17 in this docket on August 25, 2021, to respond to
18 recommendations related to capital structure raised by
19 Commission Public Staff witness John Hinton and
20 Carolina Utility Customers Association witness
21 Kevin O'Donnell.

22 My rebuttal testimony is supported by one
23 exhibit showing Piedmont's capital structure over the
24 past few years by month.

1 This concludes the summary of my prefiled
2 direct and rebuttal testimonies.

3 Q. Mr. Newlin, you're aware, of course, that the
4 Company has entered into a stipulation with the other
5 stipulating parties in this docket, correct?

6 A. I am.

7 Q. And that stipulation contains a capital
8 structure that is slightly different than what you
9 recommended in your prefiled testimony, correct?

10 A. Correct.

11 Q. And is it that -- could you tell us, do you
12 support the capital structure that was incorporated
13 into the stipulation?

14 A. I do support the capital structure in the
15 settlement. It's 51 percent -- 51.6 percent equity,
16 47.75 percent long-term debt, 0.65 percent short-term
17 debt. And I believe that that capital structure will
18 preserve credit quality in the Company and essentially
19 enable me and my team to go out and raise funds to fund
20 the expenditures.

21 Q. Thank you, Mr. Newlin. I appreciate that
22 clarification.

23 MR. JEFFRIES: Chair Mitchell,
24 Mr. Newlin is available for cross examination and

1 questions from the Commission.

2 CHAIR MITCHELL: All right. Attorney
3 General's Office?

4 CROSS EXAMINATION BY MS. FORCE:

5 Q. Good morning, Mr. Newlin.

6 A. Good morning.

7 Q. My name is Margaret Force. I just have a few
8 questions for you, and I'm referring to two places in
9 your direct testimony. One is your Exhibit KWN-2 which
10 shows the embedded cost of long-term debt. I guess
11 that was projected for the end of 2021. And in the
12 footnote B of that exhibit, you indicated that a new
13 issuance of about \$350 million would be issued for
14 between 10 and 30 years.

15 Am I understanding your testimony correctly,
16 on page 6, you say that there were -- that you did
17 issue 10-year senior unsecured notes in March of '21
18 for \$350 million?

19 A. Page 6, you said?

20 Q. Of your initial testimony.

21 A. That's correct.

22 Q. I'm having trouble hearing you.

23 A. That's correct.

24 Q. That's better, thanks. And could say what

1 the rate was for that issuance?

2 A. Projected --

3 CHAIR MITCHELL: Mr. Newlin, make sure
4 you're speaking towards your microphone. It's not
5 picking you up, so our court reporter cannot hear
6 you.

7 THE WITNESS: I'm just looking for the
8 exact rate at issue that those notes on. We
9 projected a rate of 2.70 percent (sound failure) --

10 Q. I'm hearing some of what you say --

11 (Reporter interruption due to sound
12 failure.)

13 THE WITNESS: So we have projected a
14 2.70 percent coupon rate, and I'm just trying to
15 look and find the actual rate. If memory serves, I
16 think we came in actually a little bit lower.

17 Q. Lower. Okay. And am I correct also that --

18 I think you show that the imbedded cost of debt was
19 4.09 in your protection, but the agreed cost of debt is
20 4.08, and I'm understanding it to include the newer
21 issuance; is that right?

22 A. And that drove the cost of debt down
23 with (sound failure) --

24 (Reporter interruption due to sound

1 failure.)

2 Q. The last answer I think you gave was that
3 2.70 was the projection for the coupon rate, and you
4 think it was something lower than that?

5 A. I do. I believe it was lower, and that's
6 what drove the weighted average cost of the debt to be
7 4.08 percent after the actual versus the 4.09 which was
8 in the original projection.

9 Q. Great. Thank you. That came through loud
10 and clear.

11 And is it fair to say that the rate for the
12 cost per has been 4 percent or less for most of the
13 recent issuances or all of them?

14 A. Yes.

15 Q. For long-term debt.

16 And in the last case, would you agree, and
17 perhaps subject to check, that the cost of debt was
18 4.41 percent?

19 A. Subject to check.

20 Q. Embedded cost of long-term debt.

21 I don't have any other questions. I
22 appreciate it, thank you.

23 CHAIR MITCHELL: All right. My notes
24 indicate that no other party has cross examination

1 for the witness, but I will pause here to see if
2 any party has questions for the witness.

3 (No response.)

4 CHAIR MITCHELL: I'm not hearing any.
5 All right.

6 Redirect for the witness?

7 MR. JEFFRIES: No questions,
8 Chair Mitchell.

9 CHAIR MITCHELL: All right. Thank you,
10 Mr. Jeffries.

11 Questions from the Commission.

12 Commissioners, any questions for the witness?

13 (No response.)

14 CHAIR MITCHELL: I'm not hearing any
15 from the Commission either. All right.
16 Mr. Newlin, thank you, you may step down.

17 And, Mr. Jeffries, I'll take a motion.

18 MR. JEFFRIES: Thank you,
19 Chair Mitchell. Piedmont would move that
20 Mr. Newlin's prefiled direct exhibits identified as
21 KWN-1 through KWN-3, and his Rebuttal Exhibit KWN-1
22 be admitted into evidence.

23 CHAIR MITCHELL: All right. Hearing no
24 objection to that motion, it will be allowed.

1 (Exhibits KWN-1 through KWN-3 and
2 Rebuttal Exhibit KWN-1, were admitted
3 into evidence.)

4 MR. JEFFRIES: Chair Mitchell, we have
5 no intention of recalling Mr. Newlin today on
6 rebuttal.

7 CHAIR MITCHELL: All right. Mr. Newlin,
8 you may be excused. Thank you, sir.

9 All right. Piedmont, y'all may call
10 your next witness.

11 MR. JEFFRIES: Thank you,
12 Chair Mitchell. Piedmont would call
13 Dylan D'Ascendis to the stand.

14 THE WITNESS: Hello.

15 CHAIR MITCHELL: All right. Good
16 morning, Mr. D'Ascendis.

17 Whereupon,

18 DYLAN D'ASCENDIS,
19 having first been duly affirmed, was examined
20 and testified as follows:

21 CHAIR MITCHELL: All right,
22 Mr. Jeffries.

23 MR. JEFFRIES: Thank you.

24 DIRECT EXAMINATION BY MR. JEFFRIES:

1 Q. Mr. D'Ascendis, could you state your name and
2 business address for the record, please.

3 A. Yes. It's Dylan, D-Y-L-A-N, William
4 D'Ascendis. D, apostrophe, capital A-S-C-E-N-D-I-S.
5 My business address is 3000 Atrium Way, Suite 200,
6 Mount Laurel, New Jersey 08054.

7 Q. And where do you work, Mr. D'Ascendis?

8 A. I am a partner at ScottMadden, Inc.

9 Q. All right. And what work do you perform at
10 ScottMadden, Inc.?

11 A. I offer -- I offer expert testimony on
12 various regulatory issues, including rate return,
13 valuation, cost of service. I also train and develop
14 our staff, and then pretty much guide what the rate of
15 return practice in our Company.

16 Q. Thank you, Mr. D'Ascendis.

17 Are you the same Dylan D'Ascendis that
18 prefiled direct testimony in this proceeding on
19 March 22, 2021, consisting of 61 pages, an Appendix A,
20 and Schedules DWD-1 through DWD-8?

21 A. Yes.

22 Q. And you also prefiled rebuttal testimony in
23 this proceeding on August 25, 2021, consisting of
24 73 pages, and Rebuttal Exhibit DWD-1, which includes

1 Schedules DWD-1-R through DWD-14-R; is that correct?

2 A. That's right.

3 Q. And finally, on September 7, 2021, you
4 prefiled settlement testimony consisting of nine pages
5 and Settlement Exhibit DWD-1; is that right?

6 A. Yes.

7 Q. And was that testimony and were those
8 exhibits prepared by you or under your direction?

9 A. Yes.

10 Q. Do you have any corrections to your prefiled
11 testimony or exhibits?

12 A. I don't.

13 Q. Mr. D'Ascendis, if I asked you the same
14 questions as set forth in your prefiled testimonies
15 while you were on the stand today, would your answers
16 be the same?

17 A. They would.

18 MR. JEFFRIES: Chair Mitchell, we would
19 move that Mr. D'Ascendis' prefiled direct, prefiled
20 rebuttal, and prefiled settlement testimonies be
21 entered into the record as if given orally from the
22 stand.

23 CHAIR MITCHELL: All right.

24 Mr. Jeffries, hearing no objection to your motion,

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the prefiled direct testimony, the prefiled rebuttal testimony, and the prefiled settlement testimony of witness -- Piedmont witness D'Ascendis shall be copied into the record as if given orally from the stand.

(Whereupon, the prefiled direct testimony and Appendix A, prefiled rebuttal testimony, and prefiled settlement testimony of Dylan D'Ascendis were copied into the record as if given orally from the stand.)

OFFICIAL COPY

Sep 14 2021

**BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION**

DIRECT TESTIMONY

OF

DYLAN W. D'ASCENDIS, CRRA, CVA

ON BEHALF OF

PIEDMONT NATURAL GAS COMPANY, INC.

Docket No. G-9, Sub 781

March 22, 2021

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1 **I. INTRODUCTION**

2 **A. Witness Identification**

3 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

4 A. My name is Dylan W. D'Ascendis. My business address is 3000 Atrium Way, Suite
5 241, Mount Laurel, NJ 08054.

6 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

7 A. I am a Director at ScottMadden, Inc.

8 **B. Background and Qualifications**

9 **Q. PLEASE SUMMARIZE YOUR PROFESSIONAL EXPERIENCE AND**
10 **EDUCATIONAL BACKGROUND.**

11 A. I have offered expert testimony on behalf of investor-owned utilities before over 25
12 state regulatory commissions in the United States, the Federal Energy Regulatory
13 Commission, the Alberta Utility Commission, and one American Arbitration
14 Association panel on issues including, but not limited to, common equity cost rate,
15 rate of return, valuation, capital structure, class cost of service, and rate design.

16 On behalf of the American Gas Association (“AGA”), I calculate the AGA
17 Gas Index, which serves as the benchmark against which the performance of the
18 American Gas Index Fund (“AGIF”) is measured on a monthly basis. The AGA
19 Gas Index and AGIF are a market capitalization weighted index and mutual fund,
20 respectively, comprised of the common stocks of the publicly traded corporate
21 members of the AGA.

1 I am a member of the Society of Utility and Regulatory Financial Analysts
2 (“SURFA”). In 2011, I was awarded the professional designation "Certified Rate
3 of Return Analyst" by SURFA, which is based on education, experience, and the
4 successful completion of a comprehensive written examination.

5 I am also a member of the National Association of Certified Valuation
6 Analysts (“NACVA”) and was awarded the professional designation “Certified
7 Valuation Analyst” by the NACVA in 2015.

8 I am a graduate of the University of Pennsylvania, where I received a
9 Bachelor of Arts degree in Economic History. I have also received a Master of
10 Business Administration with high honors and concentrations in Finance and
11 International Business from Rutgers University.

12 The details of my educational background and expert witness appearances
13 are shown in Appendix A.

14 **II. PURPOSE AND SUMMARY**

15 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
16 **PROCEEDING?**

17 A. The purpose of my testimony is to present evidence and provide a recommendation
18 regarding Piedmont Natural Gas Company, Inc.’s (“Piedmont” or the “Company”)
19 return on common equity (“ROE”).

1 **Q. HAVE YOU PREPARED AN EXHIBIT IN SUPPORT OF YOUR**
2 **RECOMMENDATION?**

3 A. Yes. I have prepared Exhibit No. ___, consisting of Schedules DWD-1 through
4 DWD-8, which were prepared by me or under my direction.

5 **Q. PLEASE SUMMARIZE YOUR RECOMMENDED COMMON EQUITY**
6 **COST RATE.**

7 A. My recommended common equity cost rate of 10.25% is summarized on page 2 of
8 Schedule DWD-1. I have assessed the market-based common equity cost rates of
9 companies of relatively similar, but not necessarily identical, risk to Piedmont.
10 Using companies of relatively comparable risk as proxies is consistent with the
11 principles of fair rate of return established in the *Hope*¹ and *Bluefield*² decisions.
12 No proxy group can be identical in risk to any single company. Consequently, there
13 must be an evaluation of relative risk between the company and the proxy group to
14 determine if it is appropriate to adjust the proxy group's indicated rate of return.

15 My recommendation results from applying several cost of common equity
16 models, specifically the Discounted Cash Flow ("DCF") model, the Risk Premium
17 Model ("RPM"),³ and the Capital Asset Pricing Model ("CAPM"), to the market
18 data of a proxy group of eight natural gas distribution utilities ("Utility Proxy
19 Group") whose selection criteria will be discussed below. In addition, I applied the

¹ *Federal Power Comm'n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944).

² *Bluefield Water Works Improvement Co. v. Public Serv. Comm'n*, 262 U.S. 679 (1922).

³ To derive my indicated cost of common equity under the RPM, I used two risk premium methods. The first method was the Predictive Risk Premium Model ("PRPM"), and the second method was a risk premium model using a total market approach.

1 DCF model, RPM, and CAPM to a proxy group of 47 domestic, non-price regulated
 2 companies comparable in total risk to the Utility Proxy Group (“Non-Price
 3 Regulated Proxy Group”). The results derived from each are as follows:

4 **Table 1: Summary of Common Equity Cost Rates**

Discounted Cash Flow Model	9.46%
Risk Premium Model	10.11%
Capital Asset Pricing Model	12.05%
Cost of Equity Models Applied to Comparable Risk, Non-Price Regulated Companies	<u>12.18%</u>
Indicated Range	9.46% - 12.18%
Size Adjustment	0.00%
Flotation Cost Adjustment	<u>0.12%</u>
Recommended Range	9.58% - 12.30%
Recommended Cost of Common Equity	<u>10.25%</u>

5 The indicated range of common equity cost rates applicable to the Utility
 6 Proxy Group is between 9.46% and 12.18% before any adjustment for flotation
 7 costs, which were 0.12%.⁴ My Company-specific indicated range of common
 8 equity cost rates, adjusted for flotation costs, is between 9.58% and 12.30%. Given
 9 the Utility Proxy Group and Company-specific ranges of common equity cost rates,
 10 my recommended ROE for the Company is 10.25%. I have selected the lower end
 11 of my range to reflect the uncertainty surrounding the COVID-19 recovery and my

⁴ See Section VII for a detailed discussion of my flotation cost adjustment.

1 recommendation should be considered a conservative measure of the Company's
2 required ROE at this time.

3 **Q. HOW IS THE REMAINDER OF YOUR DIRECT TESTIMONY**
4 **ORGANIZED?**

5 A. The remainder of my Direct Testimony is organized as follows:

- 6 • Section III – Provides a summary of financial theory and regulatory principles
7 pertinent to the development of the cost of common equity;
- 8 • Section IV – Explains my selection of the Utility Proxy Group used to develop
9 my Cost of Common Equity analytical results;
- 10 • Section V – Describes the analyses on which my Cost of Common Equity
11 recommendation is based;
- 12 • Section VI – Summarizes my common equity cost rate before adjustments to
13 reflect Company-specific factors;
- 14 • Section VII – Explains my consideration of adjustments to my common equity
15 cost rate to reflect Company-specific factors;
- 16 • Section VIII – Discusses economic conditions in North Carolina; and
- 17 • Section IX – Presents my conclusions.

1 **III. GENERAL PRINCIPLES**

2 **Q. WHAT GENERAL PRINCIPLES HAVE YOU CONSIDERED IN**
3 **ARRIVING AT YOUR RECOMMENDED COMMON EQUITY COST**
4 **RATE OF 10.25%?**

5 A. In unregulated industries, marketplace competition is the principal determinant of
6 the price of products or services. For regulated public utilities, regulation must act
7 as a substitute for marketplace competition. Assuring that the utility can fulfill its
8 obligations to the public, while providing safe and reliable service at all times,
9 requires a level of earnings sufficient to maintain the integrity of presently invested
10 capital. Sufficient earnings also permit the attraction of needed new capital at a
11 reasonable cost, for which the utility must compete with other firms of comparable
12 risk, consistent with the fair rate of return standards established by the U.S.
13 Supreme Court in the previously cited *Hope* and *Bluefield* cases.

14 The U.S. Supreme Court affirmed the fair rate of return standards in *Hope*,
15 when it stated:

16 The rate-making process under the Act, *i.e.*, the fixing of 'just and
17 reasonable' rates, involves a balancing of the investor and the
18 consumer interests. Thus we stated in the Natural Gas Pipeline Co.
19 case that 'regulation does not insure that the business shall produce
20 net revenues.' 315 U.S. at page 590, 62 S.Ct. at page 745. But such
21 considerations aside, the investor interest has a legitimate concern
22 with the financial integrity of the company whose rates are being
23 regulated. From the investor or company point of view it is
24 important that there be enough revenue not only for operating
25 expenses but also for the capital costs of the business. These include
26 service on the debt and dividends on the stock. Cf. *Chicago & Grand*
27 *Trunk R. Co. v. Wellman*, 143 U.S. 339, 345, 346 12 S.Ct. 400,402.
28 By that standard the return to the equity owner should be
29 commensurate with returns on investments in other enterprises

1 having corresponding risks. That return, moreover, should be
2 sufficient to assure confidence in the financial integrity of the
3 enterprise, so as to maintain its credit and to attract capital.⁵

4 In summary, the U.S. Supreme Court has found a return that is adequate to
5 attract capital at reasonable terms enables the utility to provide service while
6 maintaining its financial integrity. As discussed above, and in keeping with
7 established regulatory standards, that return should be commensurate with the
8 returns expected elsewhere for investments of equivalent risk. The Commission's
9 decision in this proceeding, therefore, should provide the Company with the
10 opportunity to earn a return that is: (1) adequate to attract capital at reasonable cost
11 and terms; (2) sufficient to ensure their financial integrity; and (3) commensurate
12 with returns on investments in enterprises having corresponding risks.

13 Lastly, the required return for a regulated public utility is established on a
14 stand-alone basis, i.e., for the utility operating company at issue in a rate case.
15 Parent entities, like other investors, have capital constraints and must look at the
16 attractiveness of the expected risk-adjusted return of each investment alternative in
17 their capital budgeting process. That is, utility holding companies that own many
18 utility operating companies have choices as to where they will invest their capital
19 within the holding company family. Therefore, the opportunity cost concept
20 applies regardless of the source of the funding, public funding or corporate funding.

21 When funding is provided by a parent entity, the return still must be
22 sufficient to provide an incentive to allocate equity capital to the subsidiary or

⁵ *Hope*, 320 U.S. 591 (1944), at 603.

1 business unit rather than other internal or external investment opportunities. That
2 is, the regulated subsidiary must compete for capital with all the parent company's
3 affiliates, and with other, similarly situated companies. In that regard, investors
4 value corporate entities on a sum-of-the-parts basis and expect each division within
5 the parent company to provide an appropriate risk-adjusted return.

6 It therefore is important that the authorized ROE reflects the risks and
7 prospects of the utility's operations and supports the utility's financial integrity
8 from a stand-alone perspective as measured by their combined business and
9 financial risks. Consequently, the ROE authorized in this proceeding should be
10 sufficient to support the operational (*i.e.*, business risk) and financing (*i.e.*, financial
11 risk) of the Company's North Carolina utility operations on a stand-alone basis.

12 **Q. WITHIN THAT BROAD FRAMEWORK, HOW IS THE COST OF**
13 **CAPITAL ESTIMATED IN REGULATORY PROCEEDINGS?**

14 A. Regulated utilities primarily use common stock and long-term debt to finance their
15 permanent property, plant, and equipment (*i.e.*, rate base). The fair rate of return
16 for a regulated utility is based on its weighted average cost of capital, in which, as
17 noted earlier, the costs of the individual sources of capital are weighted by their
18 respective book values.

19 The cost of capital is the return investors require to make an investment in
20 a firm. Investors will provide funds to a firm only if the return that they *expect* is
21 equal to, or greater than, the return that they *require* to accept the risk of providing
22 funds to the firm.

1 The cost of capital (that is, the combination of the costs of debt and equity)
2 is based on the economic principle of “opportunity costs.” Investing in any asset
3 (whether debt or equity securities) represents a forgone opportunity to invest in
4 alternative assets. For any investment to be sensible, its expected return must be at
5 least equal to the return expected on alternative, comparable risk investment
6 opportunities. Because investments with like risks should offer similar returns, the
7 opportunity cost of an investment should equal the return available on an
8 investment of comparable risk.

9 Whereas the cost of debt is contractually defined and can be directly
10 observed as the interest rate or yield on debt securities, the cost of common equity
11 must be estimated based on market data and various financial models. Because the
12 cost of common equity is premised on opportunity costs, the models used to
13 determine it are typically applied to a group of “comparable” or “proxy” companies.

14 In the end, the estimated cost of capital should reflect the return that
15 investors require in light of the subject company’s business and financial risks, and
16 the returns available on comparable investments.

17 **Q. IS THE AUTHORIZED RETURN SET IN REGULATORY PROCEEDINGS**
18 **GUARANTEED?**

19 A. No, it is not. Consistent with the *Hope* and *Bluefield* standards, the rate-setting
20 process should provide the utility a reasonable opportunity to recover its return of,
21 and return on, its prudently incurred investments, but it does not guarantee that
22 return. While a utility may have control over some factors that affect the ability to

1 earn its authorized return (e.g., management performance, operating and
2 maintenance expenses, etc.), there are several factors beyond a utility's control that
3 affect its ability to earn its authorized return. Those may include factors such as
4 weather, the economy, and the prevalence and magnitude of regulatory lag.

5 **A. Business Risk**

6 **Q. PLEASE DEFINE BUSINESS RISK AND EXPLAIN WHY IT IS**
7 **IMPORTANT FOR DETERMINING A FAIR RATE OF RETURN.**

8 A. The investor-required return on common equity reflects investors' assessment of
9 the total investment risk of the subject firm. Total investment risk is often discussed
10 in the context of business and financial risk.

11 Business risk reflects the uncertainty associated with owning a company's
12 common stock without the company's use of debt and/or preferred stock financing.
13 One way of considering the distinction between business and financial risk is to
14 view the former as the uncertainty of the expected earned return on common equity,
15 assuming the firm is financed with no debt.

16 Examples of business risks generally faced by utilities include, but are not
17 limited to, the regulatory environment, mandatory environmental compliance
18 requirements, customer mix and concentration of customers, service territory
19 economic growth, market demand, risks and uncertainties of supply, operations,
20 capital intensity, size, and the like, all of which have a direct bearing on earnings.
21 Although analysts, including rating agencies, may categorize business risks
22 individually, as a practical matter, such risks are interrelated and not wholly distinct

1 from one another. Therefore, it is difficult to quantify the effect of any individual
2 risk specifically and numerically on investors' required return, *i.e.*, the cost of
3 capital. For determining an appropriate return on common equity, the relevant issue
4 is where investors see the subject company as falling within a spectrum of risk. To
5 the extent investors view a company as being exposed to high risk, the required
6 return will increase, and vice versa.

7 For regulated utilities, business risks are both long-term and near-term in
8 nature. Whereas near-term business risks are reflected in year-to-year variability in
9 earnings and cash flow brought about by economic or regulatory factors, long-term
10 business risks reflect the prospect of an impaired ability of investors to obtain both
11 a fair rate of return on, and return of, their capital. Moreover, because utilities
12 accept the obligation to provide safe, adequate and reliable service at all times (in
13 exchange for a reasonable opportunity to earn a fair return on their investment),
14 they generally do not have the option to delay, defer, or reject capital investments.
15 Because those investments are capital-intensive, utilities generally do not have the
16 option to avoid raising external funds during periods of capital market distress, if
17 necessary.

18 Because utilities invest in long-lived assets, long-term business risks are of
19 paramount concern to equity investors. That is, the risk of not recovering the return
20 on their investment extends far into the future. The timing and nature of events that
21 may lead to losses, however, also are uncertain and, consequently, those risks and
22 their implications for the required return on equity tend to be difficult to quantify.

1 Regulatory commissions (like investors who commit their capital) must review a
2 variety of quantitative and qualitative data and apply their reasoned judgment to
3 determine how long-term risks weigh in their assessment of the market-required
4 return on common equity.

5 **B. Financial Risk**

6 **Q. PLEASE DEFINE FINANCIAL RISK AND EXPLAIN WHY IT IS**
7 **IMPORTANT IN DETERMINING A FAIR RATE OF RETURN.**

8 A. Financial risk is the additional risk created by the introduction of debt and preferred
9 stock into the capital structure. The higher the proportion of debt and preferred
10 stock in the capital structure, the higher the financial risk to common equity owners
11 (*i.e.*, failure to receive dividends due to default or other covenants). Therefore,
12 consistent with the basic financial principle of risk and return, common equity
13 investors demand higher returns as compensation for bearing higher financial risk.

14 **Q. CAN BOND AND CREDIT RATINGS BE A PROXY FOR A FIRM'S**
15 **COMBINED BUSINESS AND FINANCIAL RISKS TO EQUITY OWNERS**
16 **(*I.E.*, INVESTMENT RISK)?**

17 A. Yes, similar bond ratings/issuer credit ratings reflect, and are representative of,
18 similar combined business and financial risks (*i.e.*, total risk) faced by bond
19 investors.⁶ Although specific business or financial risks may differ between
20 companies, the same bond/credit rating indicates that the combined risks are

⁶ Risk distinctions within S&P's bond rating categories are recognized by a plus or minus, e.g., within the A category, an S&P rating can be at A+, A, or A-. Similarly, risk distinction for Moody's ratings are distinguished by numerical rating gradations, e.g., within the A category, a Moody's rating can be A1, A2 and A3.

1 roughly similar from a debtholder perspective. The caveat is that these debtholder
2 risk measures do not translate directly to risks for common equity.

3 **Q. DO RATING AGENCIES ACCOUNT FOR COMPANY SIZE IN THEIR**
4 **BOND RATINGS?**

5 A. No. Neither Standard & Poor's ("S&P") nor Moody's Investor Service
6 ("Moody's") have minimum company size requirements for any given rating level.
7 This means, all else equal, a relative size analysis must be conducted for equity
8 investments in companies with similar bond ratings.

9 **IV. PIEDMONT'S OPERATIONS AND THE UTILITY PROXY GROUP**

10 **Q. ARE YOU FAMILIAR WITH PIEDMONT'S OPERATIONS?**

11 A. Yes. Piedmont, a subsidiary of Duke Energy Corporation ("DUK"), provides
12 natural gas distribution service to approximately 1,085,000 customers in North
13 Carolina, South Carolina, and Tennessee.⁷ Of this total customer base, the
14 Company's North Carolina operations services approximately 775,000 customers.⁸
15 Piedmont currently has senior unsecured ratings of A3 (outlook: Stable) and BBB+
16 (outlook: Stable) from Moody's Investor Service and Standard & Poor's Rating
17 Services, respectively.⁹

18 **Q. PLEASE EXPLAIN HOW YOU CHOSE THE COMPANIES IN THE**
19 **UTILITY PROXY GROUP.**

20 A. The companies selected for the Utility Proxy Group met the following criteria:

⁷ Duke Energy Corporation, SEC Form 8-K, February 13, 2020, at 40.

⁸ Company provided.

⁹ Source: S&P Global Market Intelligence.

- 1 (i) They were included in the Natural Gas Utility Group of *Value Line's*
2 *Standard Edition* (“*Value Line*”) (January 29, 2021);
- 3 (ii) They have 60% or greater of fiscal year 2019 total operating income derived
4 from, and 60% or greater of fiscal year 2019 total assets attributable to,
5 regulated gas distribution operations;
- 6 (iii) At the time of preparation of this testimony, they had not publicly
7 announced that they were involved in any major merger or acquisition
8 activity (*i.e.*, one publicly-traded utility merging with or acquiring another);
- 9 (iv) They have not cut or omitted their common dividends during the five years
10 ended 2019 or through the time of preparation of this testimony;
- 11 (v) They have *Value Line* and Bloomberg Professional Services (“Bloomberg”)
12 adjusted Betas;
- 13 (vi) They have positive *Value Line* five-year dividends per share (“DPS”)
14 growth rate projections; and
- 15 (vii) They have *Value Line*, Zacks, Yahoo! Finance, or Bloomberg consensus
16 five-year earnings per share (“EPS”) growth rate projections.

17 The following eight companies met these criteria: Atmos Energy
18 Corporation, New Jersey Resources Corp., NiSource Inc., Northwest Natural Gas
19 Company, ONE Gas, Inc., South Jersey Industries, Inc., Southwest Gas Holdings,
20 Inc., and Spire, Inc.

21 **Q. WHY IS IT NECESSARY TO DEVELOP A PROXY GROUP WHEN**
22 **ESTIMATING THE ROE FOR THE COMPANY?**

23 A. Because the Company is not publicly traded and does not have publicly traded
24 equity securities, it is necessary to develop groups of publicly traded, comparable
25 companies to serve as “proxies” for the Company. In addition to the analytical
26 necessity of doing so, the use of proxy companies is consistent with the *Hope* and

1 *Bluefield* comparable risk standards, as discussed above. I have selected two proxy
2 groups that, in my view, are fundamentally risk-comparable to the Company: a
3 Utility Proxy Group and a Non-Price Regulated Proxy Group, which is comparable
4 in total risk to the Utility Proxy Group.¹⁰

5 Even when proxy groups are carefully selected, it is common for analytical
6 results to vary from company to company. Despite the care taken to ensure
7 comparability, because no two companies are identical, market expectations
8 regarding future risks and prospects will vary within the proxy group. It therefore
9 is common for analytical results to reflect a seemingly wide range, even for a group
10 of similarly situated companies. At issue is how to estimate the ROE from within
11 that range. That determination will be best informed by employing a variety of
12 sound analyses that necessarily must consider the sort of quantitative and
13 qualitative information discussed throughout my Direct Testimony. Additionally,
14 a relative risk analysis between the Company and the Utility Proxy Group must be
15 made to determine whether or not explicit Company-specific adjustments need to
16 be made to the Utility Proxy Group indicated results.

17 My analyses are based on the Utility Proxy Group which is comprised of
18 U.S. natural gas distribution utilities. As discussed earlier, utilities must compete
19 for capital with other companies with commensurate risk (including non-utilities)
20 and, to do so, must be provided the opportunity to earn a fair and reasonable return.

¹⁰ The development of the Non-Price Regulated Proxy Group is explained in more detail in Section VI.

1 Consequently, it is appropriate to consider the Utility Proxy Group's market data
2 in determining the Company's ROE.

3 **V. COMMON EQUITY COST RATE MODELS**

4 **Q. IS IT IMPORTANT THAT COST OF COMMON EQUITY MODELS BE**
5 **MARKET BASED?**

6 A. Yes. While a public utility such as DUK operates a regulated business within the
7 states in which it operates, it still must compete for equity in capital markets along
8 with all other companies of comparable risk, which includes non-utilities. The cost
9 of common equity is thus determined based on equity market expectations for the
10 returns of those companies. If an individual investor is choosing to invest their
11 capital among companies of comparable risk, they will choose a company
12 providing a higher return over a company providing a lower return.

13 **Q. ARE YOUR COST OF COMMON EQUITY MODELS MARKET BASED?**

14 A. Yes. The DCF model uses market prices in developing the model's dividend yield
15 component. Regarding the RPM, the Predictive Risk Premium Model ("PRPM")
16 uses monthly market returns in addition to expectations of the risk-free rate and the
17 total market risk premium approach uses bond ratings and expected bond yields
18 that reflect the market's assessment of bond/credit risk. In addition, Beta
19 coefficients ("β"), which reflect the market/systematic risk component of equity
20 risk premium, are derived from regression analyses of market prices. The CAPM
21 is market based for many of the same reasons that the RPM is market based (*i.e.*,
22 the use of expected bond yields and Betas). Selection criteria for comparable risk

1 non-price regulated companies are based on regression analyses of market prices
2 and reflect the market's assessment of total risk.

3 **Q. WHAT ANALYTICAL APPROACHES DID YOU USE TO DETERMINE**
4 **THE COMPANY'S ROE?**

5 A. As discussed earlier, I have relied on the DCF model, the RPM, and the CAPM,
6 which I apply to the Utility Proxy Group described above. I also applied these same
7 models to a Non-Price Regulated Proxy Group described later in this section.

8 I rely on these models because reasonable investors use a variety of tools
9 and do not rely exclusively on a single source of information or single model.
10 Moreover, the models on which I rely focus on different aspects of return
11 requirements, and provide different insights to investors' views of risk and return.
12 The DCF model, for example, estimates the investor-required return assuming a
13 constant expected dividend yield and growth rate in perpetuity, while Risk
14 Premium-based methods (*i.e.*, the RPM and CAPM approaches) provide the ability
15 to reflect investors' views of risk, future market returns, and the relationship
16 between interest rates and the cost of common equity. Just as the use of market
17 data for the Utility Proxy Group adds the reliability necessary to inform expert
18 judgment in arriving at a recommended common equity cost rate, the use of
19 multiple generally accepted common equity cost rate models also adds reliability
20 and accuracy when arriving at a recommended common equity cost rate.

1 **A. Discounted Cash Flow Model**

2 **Q. WHAT IS THE THEORETICAL BASIS OF THE DCF MODEL?**

3 A. The theory underlying the DCF model is that the present value of an expected future
4 stream of net cash flows during the investment holding period can be determined
5 by discounting those cash flows at the cost of capital, or the investors' capitalization
6 rate. DCF theory indicates that an investor buys a stock for an expected total return
7 rate, which is derived from the cash flows received from dividends and market price
8 appreciation. Mathematically, the dividend yield on market price plus a growth
9 rate equals the capitalization rate; *i.e.*, the total common equity return rate expected
10 by investors as shown below:

11
$$K_e = (D_0 (1+g))/P + g$$

12 where:

13 K_e = the required Return on Common Equity;
14 D_0 = the annualized Dividend Per Share;
15 P = the current stock price; and
16 g = the growth rate.

17 **Q. WHICH VERSION OF THE DCF MODEL DID YOU USE?**

18 A. I used the single-stage constant growth DCF model in my analyses.

19 **Q. PLEASE DESCRIBE THE DIVIDEND YIELD YOU USED IN APPLYING**
20 **THE CONSTANT GROWTH DCF MODEL.**

21 A. The unadjusted dividend yields are based on the proxy companies' dividends as of
22 January 29, 2021, divided by the average closing market price for the 60 trading
23 days ended January 29, 2021.¹¹

¹¹ See, column 1, page 1 of Schedule DWD-2.

1 **Q. PLEASE EXPLAIN YOUR ADJUSTMENT TO THE DIVIDEND YIELD.**

2 A. Because dividends are paid periodically (*e.g.* quarterly), as opposed to continuously
3 (daily), an adjustment must be made to the dividend yield. This is often referred to
4 as the discrete, or the Gordon Periodic, version of the DCF model.

5 DCF theory calls for using the full growth rate, or D_1 , in calculating the
6 model's dividend yield component. Since the companies in the Utility Proxy Group
7 increase their quarterly dividends at various times during the year, a reasonable
8 assumption is to reflect one-half the annual dividend growth rate in the dividend
9 yield component, or $D_{1/2}$. Because the dividend should be representative of the next
10 12-month period, this adjustment is a conservative approach that does not overstate
11 the dividend yield. Therefore, the actual average dividend yields in Column 1, page
12 1 of Schedule DWD-2 have been adjusted upward to reflect one-half the average
13 projected growth rate shown in Column 6.

14 **Q. PLEASE EXPLAIN THE BASIS FOR THE GROWTH RATES YOU APPLY**
15 **TO THE UTILITY PROXY GROUP IN YOUR CONSTANT GROWTH DCF**
16 **MODEL.**

17 A. Investors with more limited resources than institutional investors are likely to rely
18 on widely available financial information services, such as *Value Line*, Zacks,
19 Yahoo! Finance, and Bloomberg. Investors realize that analysts have significant
20 insight into the dynamics of the industries and individual companies they analyze,
21 as well as companies' ability to effectively manage the effects of changing laws and

1 regulations, and ever-changing economic and market conditions. For these reasons,
2 I used analysts' five-year forecasts of EPS growth in my DCF analysis.

3 Over the long run, there can be no growth in DPS without growth in EPS.
4 Security analysts' earnings expectations have a more significant influence on
5 market prices than dividend expectations. Thus, using earnings growth rates in a
6 DCF analysis provides a better match between investors' market price appreciation
7 expectations and the growth rate component of the DCF.

8 **Q. PLEASE SUMMARIZE THE CONSTANT GROWTH DCF MODEL**
9 **RESULTS.**

10 A. As shown on page 1 of Schedule DWD-2, for the Utility Proxy Group, the mean
11 result of applying the single-stage DCF model is 9.59%, the median result is 9.32%,
12 and the average of the two is 9.46%. In arriving at a conclusion for the constant
13 growth DCF-indicated common equity cost rate for the Utility Proxy Group, I relied
14 on an average of the mean and the median results of the DCF. This approach
15 considers all the proxy utilities' results, while mitigating the high and low outliers
16 of those individual results.

17 **B. The Risk Premium Model**

18 **Q. PLEASE DESCRIBE THE THEORETICAL BASIS OF THE RPM.**

19 A. The RPM is based on the fundamental financial principle of risk and return; namely,
20 that investors require greater returns for bearing greater risk. The RPM recognizes
21 that common equity capital has greater investment risk than debt capital, as
22 common equity shareholders are behind debt holders in any claim on a company's

1 assets and earnings. As a result, investors require higher returns from common
2 stocks than from bonds to compensate them for bearing the additional risk.

3 While it is possible to directly observe bond returns and yields, investors'
4 required common equity returns cannot be directly determined or observed.
5 According to RPM theory, one can estimate a common equity risk premium over
6 bonds (either historically or prospectively) and use that premium to derive a cost
7 rate of common equity. The cost of common equity equals the expected cost rate
8 for long-term debt capital, plus a risk premium over that cost rate, to compensate
9 common shareholders for the added risk of being unsecured and last-in-line for any
10 claim on the corporation's assets and earnings upon liquidation.

11 **Q. PLEASE EXPLAIN HOW YOU DERIVED YOUR INDICATED COST OF**
12 **COMMON EQUITY BASED ON THE RPM.**

13 A. To derive my indicated cost of common equity under the RPM, I used two risk
14 premium methods. The first method was the PRPM and the second method was a
15 risk premium model using a total market approach. The PRPM estimates the risk-
16 return relationship directly, while the total market approach indirectly derives a risk
17 premium by using known metrics as a proxy for risk.

18 **1. The Predictive Risk Premium Model**

19 **Q. PLEASE EXPLAIN THE PRPM.**

20 A. The PRPM, published in the *Journal of Regulatory Economics*,¹² was developed

¹² Autoregressive conditional heteroscedasticity. See "A New Approach for Estimating the Equity Risk Premium for Public Utilities", Pauline M. Ahern, Frank J. Hanley and Richard A. Michelfelder, Ph.D. *The Journal of Regulatory Economics* (December 2011), 40:261-278.

1 from the work of Robert F. Engle, who shared the Nobel Prize in Economics in
2 2003 “for methods of analyzing economic time series with time-varying volatility
3 (“ARCH”).¹³ Engle found that volatility changes over time and is related from
4 one period to the next, especially in financial markets. Engle discovered that
5 volatility of prices and returns clusters over time and is therefore highly predictable
6 and can be used to predict future levels of risk and risk premiums.

7 The PRPM estimates the risk-return relationship directly, as the predicted
8 equity risk premium is generated by predicting volatility or risk. The PRPM is not
9 based on an estimate of investor behavior, but rather on an evaluation of the results
10 of that behavior (*i.e.*, the variance of historical equity risk premiums).

11 The inputs to the model are the historical returns on the common shares of
12 each Utility Proxy Group company minus the historical monthly yield on long-term
13 U.S. Treasury securities through January 2021. Using a generalized form of ARCH,
14 known as GARCH, I calculated each Utility Proxy Group company’s projected
15 equity risk premium using Eviews[®] statistical software. When the GARCH model
16 is applied to the historical return data, it produces a predicted GARCH variance
17 series¹⁴ and a GARCH coefficient.¹⁵ Multiplying the predicted monthly variance
18 by the GARCH coefficient and then annualizing it¹⁶ produces the predicted annual
19 equity risk premium. I then added the forecasted 30-year U.S. Treasury bond yield

¹³ www.nobelprize.org.

¹⁴ Illustrated on Columns 1 and 2, page 2 of Schedule DWD-3.

¹⁵ Illustrated on Column 4, page 2 of Schedule DWD-3.

¹⁶ Annualized Return = (1 + Monthly Return)¹² - 1

1 of 2.31%¹⁷ to each company's PRPM-derived equity risk premium to arrive at an
2 indicated cost of common equity. The 30-year U.S. Treasury bond yield is a
3 consensus forecast derived from Blue Chip Financial Forecasts ("*Blue Chip*").¹⁸
4 The mean PRPM indicated common equity cost rate for the Utility Proxy Group is
5 9.69%, the median is 9.94%, and the average of the two is 9.82%. Consistent with
6 my reliance on the average of the median and mean results of the DCF models, I
7 relied on the average of the mean and median results of the Utility Proxy Group
8 PRPM to calculate a cost of common equity rate of 9.82%.

9 **Q. PLEASE DESCRIBE YOUR SELECTION OF A RISK-FREE RATE OF**
10 **RETURN.**

11 A. As shown in Schedules DWD-3 and 4, the risk-free rate adopted for applications of
12 the RPM and CAPM is 2.31%. This risk-free rate is based on the average of the
13 *Blue Chip* consensus forecast of the expected yields on 30-year U.S. Treasury
14 bonds for the six quarters ending with the second calendar quarter of 2022, and
15 long-term projections for the years 2022 to 2026 and 2027 to 2031.

16 **Q. WHY DO YOU USE THE PROJECTED 30-YEAR TREASURY YIELD IN**
17 **YOUR ANALYSES?**

18 A. The yield on long-term U.S. Treasury bonds is almost risk-free and its term is
19 consistent with the long-term cost of capital to public utilities measured by the
20 yields on Moody's A2-rated public utility bonds; the long-term investment horizon
21 inherent in utilities' common stocks; and the long-term life of the jurisdictional rate

¹⁷ See Column 6, page 2 of Schedule DWD-3.

¹⁸ *Blue Chip Financial Forecasts*, December 1, 2020 at page 14 and January 1, 2021 at 2.

1 base to which the allowed fair rate of return (*i.e.*, cost of capital) will be applied.
2 In contrast, short-term U.S. Treasury yields are more volatile and largely a function
3 of Federal Reserve monetary policy.

4 **Q. DID YOU INCLUDE CURRENT INTEREST RATES IN YOUR**
5 **ANALYSES?**

6 A. Yes. Even though I do not agree with using current interest rates in a rate of return
7 analysis, I recognize that the Commission has stated its preference for the use of
8 current, and not projected, interest rates.¹⁹ As such, in addition to my normal
9 practice of relying on projected interest rates, I have also presented my ROE
10 analyses based on current interest rates.

11 **2. The Total Market Risk Premium Approach**

12 **Q. PLEASE EXPLAIN THE TOTAL MARKET APPROACH RPM.**

13 A. The total market approach RPM adds a prospective public utility bond yield to an
14 average of: 1) an equity risk premium that is derived from a Beta-adjusted total
15 market equity risk premium, 2) an equity risk premium based on the S&P Utilities
16 Index, and 3) an equity risk premium based on authorized ROEs for gas distribution
17 utilities.

18 **Q. PLEASE EXPLAIN THE BASIS OF THE EXPECTED BOND YIELD OF**
19 **3.56% APPLICABLE TO THE UTILITY PROXY GROUP.**

20 A. The first step in the total market approach RPM analysis is to determine the
21 expected bond yield. Because both ratemaking and the cost of capital, including

¹⁹ See, North Carolina Utilities Commission, Docket Nos. W-354, Sub 363, 364, 365, Order Granting Partial Rate Increase and Requiring Customer Notice, at 72.

1 common equity cost rate, are prospective in nature, a prospective yield on similarly-
2 rated long-term debt is essential. I relied on a consensus forecast of about 50
3 economists of the expected yield on Aaa-rated corporate bonds for the six calendar
4 quarters ending with the second calendar quarter of 2022, and *Blue Chip's* long-
5 term projections for 2022 to 2026, and 2027 to 2031. As shown on line 1, page 3
6 of Schedule DWD-3, the average expected yield on Moody's Aaa-rated corporate
7 bonds is 3.06%. To derive an expected yield on Moody's A2-rated public utility
8 bonds, I made an upward adjustment of 0.50%, which represents a recent spread
9 between Aaa-rated corporate bonds and A2-rated public utility bonds, in order to
10 adjust the expected Aaa-rated corporate bond yield to an equivalent A2-rated public
11 utility bond yield.²⁰ Adding that recent 0.50% spread to the expected Aaa-rated
12 corporate bond yield of 3.06% results in an expected A2-rated public utility bond
13 yield of 3.56%.

14 I then reviewed the average credit rating for the Utility Proxy Group from
15 Moody's to determine if an adjustment to the estimated A2-rated public utility bond
16 was necessary. Since the Utility Proxy Group's average Moody's long-term issuer
17 rating is A3, another adjustment to the expected A2-rated public utility bond is
18 needed to reflect the difference in bond ratings. An upward adjustment of 0.10%,
19 which represents one-third of a recent spread between A2-rated and Baa2-rated
20 public utility bond yields, is necessary to make the A2 prospective bond yield

²⁰ As shown on line 2 and explained in note 2, page 3 of Schedule DWD-3.

1 applicable to an A3-rated public utility bond.²¹ Adding the 0.10% to the 3.56%
2 prospective A2-rated public utility bond yield results in a 3.66% expected bond
3 yield applicable to the Utility Proxy Group.

4 **Table 2: Summary of the Calculation of the Utility Proxy Group Projected**
5 **Bond Yield²²**

Prospective Yield on Moody's Aaa-Rated Corporate Bonds (<i>Blue Chip</i>)	3.06%
Adjustment to Reflect Yield Spread Between Moody's Aaa-Rated Corporate Bonds and Moody's A2-Rated Utility Bonds	0.50%
Adjustment to Reflect the Utility Proxy Group's Average Moody's Bond Rating of A3	<u>0.10%</u>
Prospective Bond Yield Applicable to the Utility Proxy Group	<u>3.66%</u>

6 To develop the indicated ROE using the total market approach RPM, this
7 prospective bond yield is then added to the average of the three different equity risk
8 premiums described below.

9 **a. The Beta-Derived Risk Premium**

10 **Q. PLEASE EXPLAIN HOW THE BETA-DERIVED EQUITY RISK**
11 **PREMIUM IS DETERMINED.**

12 **A.** The components of the Beta-derived risk premium model are: 1) an expected
13 market equity risk premium over corporate bonds, and 2) the Beta coefficient. The
14 derivation of the Beta-derived equity risk premium that I applied to the Utility

²¹ As shown on line 5 and explained in note 4, page 3 of Schedule DWD-3. Moody's does not provide public utility bond yields for A3-rated bonds. As such, it was necessary to estimate the difference between A2-rated and A3-rated public utility bonds. Because there are three steps between Baa2 and A2 (Baa2 to Baa1, Baa1 to A3, and A3 to A2) I assumed an adjustment of one-third of the difference between the A2-rated and Baa2-rated public utility bond yield was appropriate.

²² As shown on page 3 of Schedule DWD-3.

1 Proxy Group is shown on lines 1 through 9, page 8 of Schedule DWD-3. The total
2 Beta-derived equity risk premium I applied is based on an average of three
3 historical market data-based equity risk premiums, two *Value Line*-based equity
4 risk premiums, and a Bloomberg-based equity risk premium. Each of these is
5 described below.

6 **Q. HOW DID YOU DERIVE A MARKET EQUITY RISK PREMIUM BASED**
7 **ON LONG-TERM HISTORICAL DATA?**

8 A. To derive a historical market equity risk premium, I used the most recent holding
9 period returns for the large company common stocks from the Stocks, Bonds, Bills,
10 and Inflation (“SBBI”) Yearbook 2020 (“SBBI - 2020”)²³ less the average historical
11 yield on Moody’s Aaa/Aa-rated corporate bonds for the period 1928 to 2019. Using
12 holding period returns over a very long time is appropriate because it is consistent
13 with the long-term investment horizon presumed by investing in a going concern,
14 *i.e.*, a company expected to operate in perpetuity.

15 SBBI’s long-term arithmetic mean monthly total return rate on large
16 company common stocks was 11.83%, and the long-term arithmetic mean monthly
17 yield on Moody’s Aaa/Aa-rated corporate bonds was 6.05%.²⁴ As shown on line 1,
18 page 8 of Schedule DWD-3, subtracting the mean monthly bond yield from the
19 total return on large company stocks results in a long-term historical equity risk
20 premium of 5.78%.

²³ SBBI Appendix A Tables: Morningstar Stocks, Bonds, Bills, & Inflation 1926-2019.
²⁴ As explained in note 1, page 9 of Schedule DWD-3.

1 I used the arithmetic mean monthly total return rates for the large company
2 stocks and yields (income returns) for the Moody's Aaa/Aa corporate bonds,
3 because they are appropriate for the purpose of estimating the cost of capital as
4 noted in SBBI - 2020.²⁵ Using the arithmetic mean return rates and yields is
5 appropriate because historical total returns and equity risk premiums provide
6 insight into the variance and standard deviation of returns needed by investors in
7 estimating future risk when making a current investment. If investors relied on the
8 geometric mean of historical equity risk premiums, they would have no insight into
9 the potential variance of future returns, because the geometric mean relates the
10 change over many periods to a constant rate of change, thereby obviating the year-
11 to-year fluctuations, or variance, which is critical to risk analysis.

12 **Q. PLEASE EXPLAIN THE DERIVATION OF THE REGRESSION-BASED**
13 **MARKET EQUITY RISK PREMIUM.**

14 A. To derive the regression-based market equity risk premium of 9.30% shown on line
15 2, page 8 of Schedule DWD-3, I used the same monthly annualized total returns on
16 large company common stocks relative to the monthly annualized yields on
17 Moody's Aaa/Aa-rated corporate bonds as mentioned above. I modeled the
18 relationship between interest rates and the market equity risk premium using the
19 observed monthly market equity risk premium as the dependent variable, and the
20 monthly yield on Moody's Aaa/Aa-rated corporate bonds as the independent
21 variable. I then used a linear Ordinary Least Squares ("OLS") regression, in which

²⁵ SBBI - 2020, at 10-22.

1 the market equity risk premium is expressed as a function of the Moody's Aaa/Aa-
2 rated corporate bonds yield:

$$3 \quad RP = \alpha + \beta (R_{Aaa/Aa})$$

4 **Q. PLEASE EXPLAIN THE DERIVATION OF THE PRPM EQUITY RISK**
5 **PREMIUM.**

6 A. I used the same PRPM approach described above as applied to the Utility Proxy
7 Group to the historical equity risk premium. The inputs to the model are the
8 historical monthly returns on large company common stocks minus the monthly
9 yields on Moody's Aaa/Aa-rated corporate bonds during the period from January
10 1928 through January 2021.²⁶ Using the previously discussed generalized form of
11 ARCH, known as GARCH, the projected equity risk premium is determined using
12 Eviews[®] statistical software. The resulting PRPM predicted a market equity risk
13 premium of 9.65%.²⁷

14 **Q. PLEASE EXPLAIN THE DERIVATION OF A PROJECTED EQUITY RISK**
15 **PREMIUM BASED ON VALUE LINE DATA FOR YOUR RPM ANALYSIS.**

16 A. As noted above, because both ratemaking and the cost of capital are prospective, a
17 prospective market equity risk premium is needed. The derivation of the forecasted
18 or prospective market equity risk premium can be found in note 4, page 8 of
19 Schedule DWD-3. Consistent with my calculation of the dividend yield component
20 in my DCF analysis, this prospective market equity risk premium is derived from

²⁶ Data from January 1928 to December 2019 is from SBBI - 2020. Data from January 2020 to January 2021 is from Bloomberg.

²⁷ Shown on line 3, page 8 of Schedule DWD-3.

1 an average of the three- to five-year median market price appreciation potential by
2 *Value Line* for the 13 weeks ended January 29, 2021, plus an average of the median
3 estimated dividend yield for the common stocks of the 1,700 firms covered in *Value*
4 *Line's* Standard Edition.²⁸

5 The average median expected price appreciation is 35%, which translates to
6 a 7.79% annual appreciation, and, when added to the average of *Value Line's*
7 median expected dividend yields of 2.04%, equates to a forecasted annual total
8 return rate on the market of 9.83%. The forecasted Moody's Aaa-rated corporate
9 bond yield of 3.06% is deducted from the total market return of 9.83%, resulting in
10 an equity risk premium of 6.77%, as shown on line 4, page 8 of Schedule DWD-3.

11 **Q. PLEASE EXPLAIN THE DERIVATION OF AN EQUITY RISK PREMIUM**
12 **BASED ON THE S&P 500 COMPANIES.**

13 A. Using data from *Value Line*, I calculated an expected total return on the S&P 500
14 companies using expected dividend yields and long-term growth estimates as a
15 proxy for capital appreciation. The expected total return for the S&P 500 is 14.10%.
16 Subtracting the prospective yield on Moody's Aaa-rated corporate bonds of 3.06%
17 results in an 11.04% projected equity risk premium.

18 **Q. PLEASE EXPLAIN THE DERIVATION OF AN EQUITY RISK PREMIUM**
19 **BASED ON BLOOMBERG DATA.**

20 A. Using data from Bloomberg, I calculated an expected total return on the S&P 500
21 using expected dividend yields and long-term growth estimates as a proxy for

²⁸ As explained in detail in note 1, page 2 of Schedule DWD-3.

1 capital appreciation, identical to the method described above. The expected total
2 return for the S&P 500 is 17.78%. Subtracting the prospective yield on Moody's
3 Aaa-rated corporate bonds of 3.06% results in a 14.72% projected equity risk
4 premium.

5 **Q. WHAT IS YOUR CONCLUSION OF A BETA-DERIVED EQUITY RISK**
6 **PREMIUM FOR USE IN YOUR RPM ANALYSIS?**

7 A. I gave equal weight to all six equity risk premiums based on each source - historical,
8 *Value Line*, and Bloomberg - in arriving at a 9.54% equity risk premium.

9 **Table 3: Summary of the Calculation of the Equity Risk Premium Using**
10 **Total Market Returns²⁹**

Historical Spread Between Total Returns of Large Stocks and Aaa and Aa2-Rated Corporate Bond Yields (1928 – 2019)	5.78%
Regression Analysis on Historical Data	9.30%
PRPM Analysis on Historical Data	9.65%
Prospective Equity Risk Premium using Total Market Returns from <i>Value Line</i> Summary & Index less Projected Aaa Corporate Bond Yields	6.77%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from <i>Value Line</i> for the S&P 500 less Projected Aaa Corporate Bond Yields	11.04%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from Bloomberg Professional Services for the S&P 500 less Projected Aaa Corporate Bond Yields	<u>14.72%</u>
Average	<u>9.54%</u>

11 After calculating the average market equity risk premium of 9.54%, I adjusted it by
12 the Beta coefficient to account for the risk of the Utility Proxy Group. As discussed
13 below, the Beta coefficient is a meaningful measure of prospective relative risk to
14 the market as a whole, and is a logical way to allocate a company's, or proxy

²⁹ As shown on page 8 of Schedule DWD-3.

1 group's, share of the market's total equity risk premium relative to corporate bond
2 yields. As shown on page 1 of Schedule DWD-4, the average of the mean and
3 median Beta coefficient for the Utility Proxy Group is 0.93. Multiplying the 0.93
4 average by the market equity risk premium of 9.54% results in a Beta-adjusted
5 equity risk premium for the Utility Proxy Group of 8.87%.

6 ***b. The S&P Utility Index Derived Risk Premium***

7 **Q. HOW DID YOU DERIVE THE EQUITY RISK PREMIUM BASED ON THE**
8 **S&P UTILITY INDEX AND MOODY'S A-RATED PUBLIC UTILITY**
9 **BONDS?**

10 A. I estimated three equity risk premiums based on S&P Utility Index holding period
11 returns, and two equity risk premiums based on the expected returns of the S&P
12 Utilities Index, using *Value Line* and Bloomberg data, respectively. Turning first to
13 the S&P Utility Index holding period returns, I derived a long-term monthly
14 arithmetic mean equity risk premium between the S&P Utility Index total returns
15 of 10.74%, and monthly Moody's A-rated public utility bond yields of 6.53% from
16 1928 to 2019, to arrive at an equity risk premium of 4.21%.³⁰ I then used the same
17 historical data to derive an equity risk premium of 6.83% based on a regression of
18 the monthly equity risk premiums. The final S&P Utility Index holding period
19 equity risk premium involved applying the PRPM using the historical monthly
20 equity risk premiums from January 1928 to January 2021 to arrive at a PRPM-
21 derived equity risk premium of 5.59% for the S&P Utility Index.

³⁰ As shown on line 1, page 12 of Schedule DWD-3.

1 I then derived expected total returns on the S&P Utilities Index of 10.36%
2 and 7.67% using data from *Value Line* and Bloomberg, respectively, and subtracted
3 the prospective Moody's A2-rated public utility bond yield of 3.56%³¹, which
4 resulted in equity risk premiums of 6.80% and 4.11%, respectively. As with the
5 market equity risk premiums, I averaged each risk premium based on each source
6 (*i.e.*, historical, *Value Line*, and Bloomberg) to arrive at my utility-specific equity
7 risk premium of 5.51%.

8 **Table 4: Summary of the Calculation of the Equity Risk Premium Using**
9 **S&P Utility Index Holding Returns³²**

Historical Spread Between Total Returns of the S&P Utilities Index and A2-Rated Utility Bond Yields (1928 – 2019)	4.21%
Regression Analysis on Historical Data	6.83%
PRPM Analysis on Historical Data	5.59%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from <i>Value Line</i> for the S&P Utilities Index less Projected A2 Utility Bond Yields	6.80%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from Bloomberg Professional Services for the S&P Utilities Index less Projected A2 Utility Bond Yields	<u>4.11%</u>
Average	<u>5.51%</u>

10 **c. Authorized Return-Derived Equity Risk Premium**

11 **Q. HOW DID YOU DERIVE AN EQUITY RISK PREMIUM OF 5.83% BASED**
12 **ON AUTHORIZED ROES FOR GAS DISTRIBUTION UTILITIES?**

13 A. The equity risk premium of 5.83% shown on line 3, page 7 of Schedule DWD-3 is
14 the result of a regression analysis based on regulatory awarded ROEs related to the
15 yields on Moody's A-rated public utility bonds. That analysis is shown on page 13

³¹ Derived on line 3, page 3 of Schedule DWD-3.

³² As shown on page 12 of Schedule DWD-3.

1 of Schedule DWD-3. Page 13 of Schedule DWD-3 contains the graphical results
2 of a regression analysis of 797 rate cases for gas distribution utilities which were
3 fully litigated during the period from January 1, 1980 through January 29, 2021. It
4 shows the implicit equity risk premium relative to the yields on A-rated public
5 utility bonds immediately prior to the issuance of each regulatory decision. It is
6 readily discernible that there is an inverse relationship between the yield on A-rated
7 public utility bonds and equity risk premiums. In other words, as interest rates
8 decline, the equity risk premium rises and vice versa, a result consistent with
9 financial literature on the subject.³³ I used the regression results to estimate the
10 equity risk premium applicable to the projected yield on Moody's A2-rated public
11 utility bonds of 3.56%. Given the expected A-rated utility bond yield of 3.56%, it
12 can be calculated that the indicated equity risk premium applicable to that bond
13 yield is 5.83%, which is shown on line 3, page 7 of Schedule DWD-3.

14 **Q. WHAT IS YOUR CONCLUSION OF AN EQUITY RISK PREMIUM FOR**
15 **USE IN YOUR TOTAL MARKET APPROACH RPM ANALYSIS?**

16 A. The equity risk premium I apply to the Utility Proxy Group is 6.74%, which is the
17 average of the Beta-adjusted equity risk premium for the Utility Proxy Group, the
18 S&P Utilities Index, and the authorized return utility equity risk premiums of
19 8.87%, 5.51%, and 5.83%, respectively.³⁴

³³ See, e.g., Robert S. Harris and Felicia C. Marston, *The Market Risk Premium: Expectational Estimates Using Analysts' Forecasts*, Journal of Applied Finance, Vol. 11, No. 1, 2001, at 11 to 12; Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *The Risk Premium Approach to Measuring a Utility's Cost of Equity*, Financial Management, Spring 1985, at 33 to 45.

³⁴ As shown on page 7 of Schedule DWD-3.

1 **Q. WHAT IS THE INDICATED RPM COMMON EQUITY COST RATE**
2 **BASED ON THE TOTAL MARKET APPROACH?**

3 A. As shown on line 8, page 3 of Schedule DWD-3, I calculated a common equity cost
4 rate of 10.40% for the Utility Proxy Group based on the total market approach
5 RPM.

6 **Table 5: Summary of the Total Market Return Risk Premium Model³⁵**

Prospective Moody’s A3-Rated Utility Bond Applicable to the Utility Proxy Group	3.66%
Prospective Equity Risk Premium	6.74%
Indicated Cost of Common Equity	10.40%

7 **Q. WHAT ARE THE RESULTS OF YOUR APPLICATION OF THE PRPM**
8 **AND THE TOTAL MARKET APPROACH RPM?**

9 A. As shown on page 1 of Schedule DWD-3, the indicated RPM-derived common
10 equity cost rate is 10.11%, which gives equal weight to the PRPM (9.82%) and the
11 adjusted-market approach results (10.40%).

12 **C. The Capital Asset Pricing Model**

13 **Q. PLEASE EXPLAIN THE THEORETICAL BASIS OF THE CAPM.**

14 A. CAPM theory defines risk as the co-variability of a security’s returns with the
15 market’s returns as measured by the Beta coefficient (β). A Beta coefficient less
16 than 1.0 indicates lower variability than the market as a whole, while a Beta
17 coefficient greater than 1.0 indicates greater variability than the market.

18 The CAPM assumes that all non-market or unsystematic risk can be
19 eliminated through diversification. The risk that cannot be eliminated through

³⁵ As shown on page 3 of Schedule DWD-3.

1 diversification is called market, or systematic, risk. In addition, the CAPM
2 presumes that investors only require compensation for systematic risk, which is the
3 result of macroeconomic and other events that affect the returns on all assets. The
4 model is applied by adding a risk-free rate of return to a market risk premium, which
5 is adjusted proportionately to reflect the systematic risk of the individual security
6 relative to the total market as measured by the Beta coefficient. The traditional
7 CAPM model is expressed as:

$$R_s = R_f + \beta (R_m - R_f)$$

8
9 Where: R_s = Return rate on the common stock
10 R_f = Risk-free rate of return
11 R_m = Return rate on the market as a whole
12 β = Adjusted Beta coefficient (volatility of the
13 security relative to the market as a whole)

14 Numerous tests of the CAPM have measured the extent to which security
15 returns and Beta coefficients are related as predicted by the CAPM, confirming its
16 validity. The empirical CAPM (“EC”) reflects the reality that while the results of
17 these tests support the notion that the Beta coefficient is related to security returns,
18 the empirical Security Market Line (“SML”) described by the CAPM formula is
19 not as steeply sloped as the predicted SML.³⁶

³⁶ Roger A. Morin, *New Regulatory Finance* (Public Utility Reports, Inc., 2006), at 175. (“Morin”)

1 where x is a fraction to be determined empirically. The value of x
2 that best explains the observed relationship [is] $\text{Return} = 0.0829 +$
3 0.0520β is between 0.25 and 0.30. If $x = 0.25$, the equation
4 becomes:

$$5 \quad K = R_F + 0.25(R_M - R_F) + 0.75 \beta(R_M - R_F)^{39}$$

6 Fama and French provide similar support for the ECAPM when they state:

7 The early tests firmly reject the Sharpe-Lintner version of the
8 CAPM. There is a positive relation between beta and average return,
9 but it is too 'flat.'... The regressions consistently find that the
10 intercept is greater than the average risk-free rate... and the
11 coefficient on beta is less than the average excess market return...
12 This is true in the early tests... as well as in more recent cross-
13 section regressions tests, like Fama and French (1992).⁴⁰

14 Finally, Fama and French further note:

15 Confirming earlier evidence, the relation between beta and average
16 return for the ten portfolios is much flatter than the Sharpe-Linter
17 CAPM predicts. The returns on low beta portfolios are too high,
18 and the returns on the high beta portfolios are too low. For example,
19 the predicted return on the portfolio with the lowest beta is 8.3
20 percent per year; the actual return as 11.1 percent. The predicted
21 return on the portfolio with the t beta is 16.8 percent per year; the
22 actual is 13.7 percent.⁴¹

23
24 Clearly, the justification from Morin, Fama, and French, along with their
25 reviews of other academic research on the CAPM, validate the use of the ECAPM.
26 In view of theory and practical research, I have applied both the traditional CAPM
27 and the ECAPM to the companies in the Utility Proxy Group and averaged the
28 results.

³⁹ Morin, at 190.

⁴⁰ Fama & French, at 32.

⁴¹ *Ibid.*, at 33.

1 **Q. WHAT BETA COEFFICIENTS DID YOU USE IN YOUR CAPM**
2 **ANALYSIS?**

3 A. For the Beta coefficients in my CAPM analysis, I considered two sources: *Value*
4 *Line* and Bloomberg Professional Services. While both of those services adjust
5 their calculated (or “raw”) Beta coefficients to reflect the tendency of the Beta
6 coefficient to regress to the market mean of 1.00, *Value Line* calculates the Beta
7 coefficient over a five-year period, while Bloomberg calculates it over a two-year
8 period.

9 **Q. PLEASE DESCRIBE YOUR SELECTION OF A RISK-FREE RATE OF**
10 **RETURN.**

11 A. As discussed previously, the risk-free rate adopted for both applications of the
12 CAPM is 2.31%. This risk-free rate is based on the average of the *Blue Chip*
13 consensus forecast of the expected yields on 30-year U.S. Treasury bonds for the
14 six quarters ending with the second calendar quarter of 2022, and long-term
15 projections for the years 2022 to 2026 and 2027 to 2031.

16 **Q. PLEASE EXPLAIN THE ESTIMATION OF THE EXPECTED RISK**
17 **PREMIUM FOR THE MARKET USED IN YOUR CAPM ANALYSES.**

18 A. The basis of the market risk premium is explained in detail in note 1 on Schedule
19 DWD-4. As discussed above, the market risk premium is derived from an average
20 of three historical data-based market risk premiums, two *Value Line* data-based
21 market risk premiums, and one Bloomberg data-based market risk premium.

1 The long-term income return on U.S. Government securities of 5.09% was
2 deducted from the SBBI - 2020 monthly historical total market return of 12.10%,
3 which results in an historical market equity risk premium of 7.01%.⁴² I applied a
4 linear OLS regression to the monthly annualized historical returns on the S&P 500
5 relative to historical yields on long-term U.S. Government securities from SBBI -
6 2020. That regression analysis yielded a market equity risk premium of 9.98%.
7 The PRPM market equity risk premium is 10.76% and is derived using the PRPM
8 relative to the yields on long-term U.S. Treasury securities from January 1926
9 through January 2021.

10 The *Value Line*-derived forecasted total market equity risk premium is
11 derived by deducting the forecasted risk-free rate of 2.31%, discussed above, from
12 the *Value Line* projected total annual market return of 9.83%, resulting in a
13 forecasted total market equity risk premium of 7.52%. The S&P 500 projected
14 market equity risk premium using *Value Line* data is derived by subtracting the
15 projected risk-free rate of 2.31% from the projected total return of the S&P 500 of
16 14.10%. The resulting market equity risk premium is 9.66%.

17 The S&P 500 projected market equity risk premium using Bloomberg data
18 is derived by subtracting the projected risk-free rate of 2.31% from the projected
19 total return of the S&P 500 of 17.78%. The resulting market equity risk premium
20 is 15.47%. These six measures, when averaged, result in an average total market
21 equity risk premium of 10.42%.

⁴² SBBI - 2020, at Appendix A-1 (1) through A-1 (3) and Appendix A-7 (19) through A-7 (21).

1
2

Table 6: Summary of the Calculation of the Market Risk Premium for Use in the CAPM⁴³

Historical Spread Between Total Returns of Large Stocks and Long-Term Government Bond Yields (1926 – 2019)	7.01%
Regression Analysis on Historical Data	9.98%
PRPM Analysis on Historical Data	10.76%
Prospective Equity Risk Premium using Total Market Returns from <i>Value Line</i> Summary & Index less Projected 30-Year Treasury Bond Yields	7.52%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from <i>Value Line</i> for the S&P 500 less Projected 30-Year Treasury Bond Yields	11.79%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from Bloomberg Professional Services for the S&P 500 less Projected 30-Year Treasury Bond Yields	<u>15.47%</u>
Average	<u>10.42%</u>

3 **Q. WHAT ARE THE RESULTS OF YOUR APPLICATION OF THE**
4 **TRADITIONAL AND EMPIRICAL CAPM TO THE UTILITY PROXY**
5 **GROUP?**

6 A. As shown on page 1 of Schedule DWD-4, the mean result of my CAPM/ECAPM
7 analyses is 12.09%, the median is 12.00%, and the average of the two is 12.05%.
8 Consistent with my reliance on the average of mean and median DCF results
9 discussed above, the indicated common equity cost rate using the CAPM/ECAPM
10 is 12.05%.

⁴³ As shown on page 2 of Schedule DWD-4.

1 **D. Common Equity Cost Rates for a Proxy Group of Domestic, Non-**
2 **Price Regulated Companies Based on the DCF, RPM, and CAPM**

3 **Q. WHY DO YOU ALSO CONSIDER A PROXY GROUP OF DOMESTIC,**
4 **NON-PRICE REGULATED COMPANIES?**

5 A. In the *Hope* and *Bluefield* cases, the U.S. Supreme Court did not specify that
6 comparable risk companies had to be utilities. Since the purpose of rate regulation
7 is to be a substitute for marketplace competition, non-price regulated firms
8 operating in the competitive marketplace make an excellent proxy group if they are
9 comparable in total risk to the Utility Proxy Group being used to estimate the cost
10 of common equity. The selection of such domestic, non-price regulated competitive
11 firms theoretically and empirically results in a proxy group which is comparable in
12 total risk to the Utility Proxy Group, since all of these companies compete for
13 capital in the exact same markets.

14 **Q. HOW DID YOU SELECT NON-PRICE REGULATED COMPANIES THAT**
15 **ARE COMPARABLE IN TOTAL RISK TO THE UTILITY PROXY**
16 **GROUP?**

17 A. In order to select a proxy group of domestic, non-price regulated companies similar
18 in total risk to the Utility Proxy Group, I relied on the Beta coefficients and related
19 statistics derived from *Value Line* regression analyses of weekly market prices over
20 the most recent 260 weeks (*i.e.*, five years). These selection criteria resulted in a
21 proxy group of 47 domestic, non-price regulated firms comparable in total risk to
22 the Utility Proxy Group. Total risk is the sum of non-diversifiable market risk and

1 diversifiable company-specific risks. The criteria used in selecting the domestic,
2 non-price regulated firms was:

- 3 (i) They must be covered by *Value Line* (Standard Edition);
4 (ii) They must be domestic, non-price regulated companies, *i.e.*, not utilities;
5 (iii) Their Beta coefficients must lie within plus or minus two standard
6 deviations of the average unadjusted Beta coefficients of the Utility Proxy
7 Group; and
8 (iv) The residual standard errors of the *Value Line* regressions which gave rise
9 to the unadjusted Beta coefficients must lie within plus or minus two
10 standard deviations of the average residual standard error of the Utility
11 Proxy Group.

12 Beta coefficients measure market, or systematic, risk, which is not
13 diversifiable. The residual standard errors of the regressions measure each firm's
14 company-specific, diversifiable risk. Companies that have similar Beta coefficients
15 and similar residual standard errors resulting from the same regression analyses
16 have similar total investment risk.

17 **Q. HAVE YOU PREPARED A SCHEDULE WHICH SHOWS THE DATA**
18 **FROM WHICH YOU SELECTED THE 47 DOMESTIC, NON-PRICE**
19 **REGULATED COMPANIES THAT ARE COMPARABLE IN TOTAL RISK**
20 **TO THE UTILITY PROXY GROUP?**

21 A. Yes, the basis of my selection and both proxy groups' regression statistics are shown
22 in Schedule DWD-5.

1 **Q. DID YOU CALCULATE COMMON EQUITY COST RATES USING THE**
2 **DCF MODEL, RPM, AND CAPM FOR THE NON-PRICE REGULATED**
3 **PROXY GROUP?**

4 A. Yes. Because the DCF model, RPM, and CAPM have been applied in an identical
5 manner as described above, I will not repeat the details of the rationale and
6 application of each model. One exception is in the application of the RPM, where
7 I did not use public utility-specific equity risk premiums, nor did I apply the PRPM
8 to the individual non-price regulated companies.

9 Page 2 of Schedule DWD-6 derives the constant growth DCF model
10 common equity cost rate. As shown, the indicated common equity cost rate, using
11 the constant growth DCF for the Non-Price Regulated Proxy Group comparable in
12 total risk to the Utility Proxy Group, is 11.97%.

13 Pages 3 through 5 of Schedule DWD-6 contain the data and calculations
14 that support the 12.82% RPM common equity cost rate. As shown on line 1, page
15 3 of Schedule DWD-6, the consensus prospective yield on Moody's Baa-rated
16 corporate bonds for the six quarters ending in the second quarter of 2022, and for
17 the years 2022 to 2026 and 2027 to 2031, is 4.04%.⁴⁴

18 When the Beta-adjusted risk premium of 8.78%⁴⁵ relative to the Non-Price
19 Regulated Proxy Group is added to the prospective Baa2-rated corporate bond yield
20 of 4.04%, the indicated RPM common equity cost rate is 12.82%.

⁴⁴ *Blue Chip Financial Forecasts*, December 1, 2020, at 14 and January 1, 2021, at 2.
⁴⁵ Derived on page 5 of Schedule DWD-6.

1 Page 6 of Schedule DWD-6 contains the inputs and calculations that support
2 my indicated CAPM/ECAPM common equity cost rate of 12.07%.

3 **Q. HOW IS THE COST RATE OF COMMON EQUITY BASED ON THE NON-**
4 **PRICE REGULATED PROXY GROUP COMPARABLE IN TOTAL RISK**
5 **TO THE UTILITY PROXY GROUP?**

6 A. As shown on page 1 of Schedule DWD-6, the results of the common equity models
7 applied to the Non-Price Regulated Proxy Group -- which group is comparable in
8 total risk to the Utility Proxy Group -- are as follows: 11.97% (DCF), 12.82%
9 (RPM), and 12.07% (CAPM). The average of the mean and median of these models
10 is 12.18%, which I used as the indicated common equity cost rates for the Non-
11 Price Regulated Proxy Group.

12 **VI. CONCLUSION OF COMMON EQUITY COST RATE BEFORE**
13 **ADJUSTMENTS**

14 **Q. WHAT ARE THE INDICATED COMMON EQUITY COST RATES**
15 **BEFORE ADJUSTMENTS?**

16 A. By applying multiple cost of common equity models to the Utility Proxy Group and
17 the Non-Price Regulated Proxy Group, the indicated range of common equity cost
18 rates before any relative risk adjustment is between 9.46% and 12.18%. I used
19 multiple cost of common equity models as primary tools in arriving at my
20 recommended common equity cost rate, because no single model is so inherently
21 precise that it can be relied on to the exclusion of other theoretically sound models.
22 Using multiple models adds reliability to the estimated common equity cost rate,
23 with the prudence of using multiple cost of common equity models supported in

1 both the financial literature and regulatory precedent.

2 Based on these common equity cost rate results, I conclude that a common
3 equity cost rate between 9.46% and 12.18% is reasonable and appropriate before
4 any adjustments for relative risk differences between Piedmont and the Utility
5 Proxy Group are made.⁴⁶

6 **VII. ADJUSTMENTS TO THE COMMON EQUITY COST RATE**

7 **A. Size Adjustment**

8 **Q. DOES A COMPANY'S SIZE RELATIVE TO THE UTILITY PROXY**
9 **GROUP COMPANIES IMPACT ITS BUSINESS RISK?**

10 A. Yes. A smaller size relative to the Utility Proxy Group companies indicates greater
11 relative business risk for a utility because, all else being equal, size has a material
12 bearing on risk.

13 Size affects business risk because smaller companies generally are less able
14 to cope with significant events that affect sales, revenues and earnings. For
15 example, smaller companies face more risk exposure to business cycles and
16 economic conditions, both nationally and locally. Additionally, the loss of revenues
17 from a few larger customers would have a greater effect on a small company than
18 on a bigger company with a larger, more diverse, customer base.

⁴⁶ The 9.46% low end of the range represents the lowest model result. The 12.18% high end of the range is the highest model result.

1 Consistent with the financial principle of risk and return discussed above,
2 increased relative risk due to small size must be considered in the allowed rate of
3 return on common equity.

4 **Q. HAVE YOU APPLIED A RELATIVE RISK ADJUSTMENT DUE TO**
5 **PIEDMONT'S SMALL SIZE RELATIVE TO THE UTILITY PROXY**
6 **GROUP?**

7 A. No. While Piedmont has greater relative risk than the average utility in the Utility
8 Proxy Group as measured by its estimated market capitalization of common equity,
9 the difference is not large enough to merit a relative risk adjustment as shown on
10 Table 7, below.

11 **Table 7: Size as Measured by Market Capitalization for Piedmont**
12 **and the Utility Proxy Group**

	<u>Market Capitalization*</u>	<u>Times Greater than The Company</u>
	(\$ Millions)	
Piedmont	\$4,004.929	
Utility Proxy Group	\$4,505.920	1.1x
*From page 1 of Schedule DWD-7.		

13 Piedmont's estimated market capitalization for its North Carolina
14 operations was \$4.0 billion as of January 29, 2021,⁴⁷ compared with the market
15 capitalization of the average company in the Utility Proxy Group of \$4.5 billion as

⁴⁷ \$4,004.929M = \$4,822.659M (requested rate base) * 52.00% (requested equity ratio) * 159.7% (market-to-book ratio of the Utility Proxy Group) as demonstrated on page 2 of Schedule DWD-7.

1 of January 29, 2021. The average company in the Utility Proxy Group has a market
2 capitalization 1.1 times the size of Piedmont's estimated market capitalization.

3 As a result, even though there is a difference in size between Piedmont and
4 the Utility Proxy Group, in my opinion, it is not necessary to upwardly adjust the
5 range of indicated common equity cost rates between 9.46% to 12.18% to reflect
6 greater risk due to smaller relative size.

7 **B. Flotation Cost Adjustment**

8 **Q. WHAT ARE FLOTATION COSTS?**

9 A. Flotation costs are those costs associated with the sale of new issuances of common
10 stock. They include market pressure and the mandatory unavoidable costs of
11 issuance (*e.g.*, underwriting fees and out-of-pocket costs for printing, legal,
12 registration, etc.). For every dollar raised through debt or equity offerings, the
13 Company receives less than one full dollar in financing.

14 **Q. WHY IS IT IMPORTANT TO RECOGNIZE FLOTATION COSTS IN THE**
15 **ALLOWED COMMON EQUITY COST RATE?**

16 A. It is important because there is no other mechanism in the ratemaking paradigm
17 through which such costs can be recognized and recovered. Because these costs
18 are real, necessary, and legitimate, recovery of these costs should be permitted. As
19 noted by Morin:

20 The costs of issuing these securities are just as real as operating and
21 maintenance expenses or costs incurred to build utility plants, and
22 fair regulatory treatment must permit recovery of these costs....

1 The simple fact of the matter is that common equity capital is not
2 free....[Flotation costs] must be recovered through a rate of return
3 adjustment.⁴⁸

4 **Q. SHOULD FLOTATION COSTS BE RECOGNIZED ONLY IF THERE WAS**
5 **AN ISSUANCE DURING THE TEST YEAR OR THERE IS AN IMMINENT**
6 **POST-TEST YEAR ISSUANCE OF ADDITIONAL COMMON STOCK?**

7 A. No. As noted above, there is no mechanism to recapture such costs in the
8 ratemaking paradigm other than an adjustment to the allowed common equity cost
9 rate. Flotation costs are charged to capital accounts and are not expensed on a
10 utility's income statement. As such, flotation costs are analogous to capital
11 investments, albeit negative, reflected on the balance sheet. Recovery of capital
12 investments relates to the expected useful lives of the investment. Since common
13 equity has a very long and indefinite life (assumed to be infinity in the standard
14 regulatory DCF model), flotation costs should be recovered through an adjustment
15 to common equity cost rate, even when there has not been an issuance during the
16 test year, or in the absence of an expected imminent issuance of additional shares
17 of common stock.

18 Historical flotation costs are a permanent loss of investment to the utility
19 and should be accounted for. When any company, including a utility, issues
20 common stock, flotation costs are incurred for legal, accounting, printing fees and
21 the like. For each dollar of issuing market price, a small percentage is expensed
22 and is permanently unavailable for investment in utility rate base. Since these

⁴⁸ Morin, at 321.

1 expenses are charged to capital accounts and not expensed on the income statement,
2 the only way to restore the full value of that dollar of issuing price with an assumed
3 investor required return of 10% is for the net investment, \$0.95, to earn more than
4 10% to net back to the investor a fair return on that dollar. In other words, if a
5 company issues stock at \$1.00 with 5% in flotation costs, it will net \$0.95 in
6 investment. Assuming the investor in that stock requires a 10% return on his or her
7 invested \$1.00 (*i.e.*, a return of \$0.10), the company needs to earn approximately
8 10.5% on its invested \$0.95 to receive a \$0.10 return.

9 **Q. DO THE COMMON EQUITY COST RATE MODELS YOU HAVE USED**
10 **ALREADY REFLECT INVESTORS' ANTICIPATION OF FLOTATION**
11 **COSTS?**

12 A. No. All of these models assume no transaction costs. The literature is quite clear
13 that these costs are not reflected in the market prices paid for common stocks. For
14 example, Brigham and Daves confirm this and provide the methodology utilized to
15 calculate the flotation adjustment.⁴⁹ In addition, Morin confirms the need for such
16 an adjustment even when no new equity issuance is imminent.⁵⁰ Consequently, it

⁴⁹ Eugene F. Brigham and Phillip R. Daves, Intermediate Financial Management, 9th Edition, Thomson/Southwestern, at 342.

⁵⁰ Morin, at pp. 327-30.

1 is proper to include a flotation cost adjustment when using cost of common equity
2 models to estimate the common equity cost rate.

3 **Q. HOW DID YOU CALCULATE THE FLOTATION COST ALLOWANCE?**

4 A. I modified the DCF calculation to provide a dividend yield that would reimburse
5 investors for issuance costs in accordance with the method cited in literature by
6 Brigham and Daves, as well as by Morin. The flotation cost adjustment recognizes
7 the actual costs of issuing equity that were incurred by DUK in its last three equity
8 issuances. Based on the issuance costs shown on page 1 of Schedule DWD-8, an
9 adjustment of 0.12% is required to reflect the flotation costs applicable to the Utility
10 Proxy Group.

11 **Q. WHAT IS THE INDICATED COST OF COMMON EQUITY AFTER YOUR**
12 **COMPANY-SPECIFIC ADJUSTMENTS?**

13 A. Applying the 0.12% flotation cost adjustment to the indicated cost of common
14 equity range of 9.46% to 12.18% results in a Company-specific cost of common
15 equity rate range of 9.58% to 12.30%, which is my recommended common equity
16 cost rate range. Based on that range I recommend a Company-specific cost of
17 common equity rate of 10.25%.

18 **VIII. ECONOMIC CONDITIONS IN NORTH CAROLINA**

19 **Q. DID YOU CONSIDER THE ECONOMIC CONDITIONS IN NORTH**
20 **CAROLINA IN ARRIVING AT YOUR ROE RECOMMENDATION?**

21 A. Yes, I did. As a preliminary matter, I understand and appreciate that the
22 Commission must balance the interests of investors and customers in setting the

1 return on common equity. As the Commission has stated, it "...is and must always
2 be mindful of the North Carolina Supreme Court's command that the
3 Commission's task is to set rates as low as possible consistent with the dictates of
4 the United States and North Carolina Constitutions."⁵¹ In that regard, the return
5 should be neither excessive nor confiscatory; it should be the minimum amount
6 needed to meet the *Hope* and *Bluefield* Comparable Risk, Capital Attraction, and
7 Financial Integrity standards.

8 The Commission also has found the role of cost of capital experts is to
9 determine the investor-required return, not to estimate increments or decrements of
10 return in connection with consumers' economic environment:

11 ... adjusting investors' required costs based on factors upon which
12 investors do not base their willingness to invest is an unsupportable
13 theory or concept. The proper way to take into account customer
14 ability to pay is in the Commission's exercise of fixing rates as low
15 as reasonably possible without violating constitutional proscriptions
16 against confiscation of property. This is in accord with the "end
17 result" test of *Hope*. This the Commission has done.⁵²

18 The North Carolina Supreme Court agreed, and upheld the Commission's
19 Order on Remand.⁵³ The North Carolina Supreme Court has also, however, made
20 clear that the Commission "must make findings of fact regarding the impact of

⁵¹ State of North Carolina Utilities Commission, Docket No. E-7, Sub 1026, Order Granting General Rate Increase, Sept. 24, 2013 at 25; *see also*, North Carolina Utilities Commission, Docket No. E-7, Sub 989, Order on Remand, at 31 ("the Commission in every case seeks to comply with the N.C. Supreme Court mandate that the Commission establish rates as low as reasonably possible within Constitutional limits.").

⁵² State of North Carolina Utilities Commission, Docket No. E-7, Sub 989, Order on Remand, October 23, 2013, at 34 - 35; *see also*, Dominion Remand Order, Docket No. E-22, Sub 479 at 26 (stating that the Commission is not required to "isolate and quantify the effect of changing economic conditions on consumers in order to determine the appropriate rate of return on equity").

⁵³ *State ex rel. Utils. Comm'n v. Cooper*, 366 N.C. 484, 739 S.E.2d 541 (2013) ("Cooper I").

1 changing economic conditions on customers when determining the proper ROE for
2 a public utility.”⁵⁴ In *Cooper II*, the North Carolina Supreme Court directed the
3 Commission on remand to “make additional findings of fact concerning the impact
4 of changing economic conditions on customers”,⁵⁵ which the Commission made in
5 its Order on Remand.⁵⁶ In light of the *Cooper II* decision and the North Carolina
6 Supreme Court precedent that preceded it,⁵⁷ I appreciate the Commission’s need to
7 consider economic conditions in the State. As such, I have undertaken several
8 analyses to provide such a review.

9 **Q. PLEASE SUMMARIZE YOUR ANALYSES AND CONCLUSIONS.**

10 A. In its Order on Remand in Docket No. E-22, Sub 479, the Commission observed
11 that economic conditions in North Carolina were highly correlated with national
12 conditions, such that they were reflected in the analyses used to determine the cost
13 of common equity.⁵⁸ As discussed below, those relationships still hold:

- 14 • Although economic conditions in North Carolina declined significantly in
15 the second quarter of 2020 as a result of the COVID-19 pandemic, they
16 improved considerably in the third and fourth quarters. Notably, economic
17 conditions in North Carolina continued to be strongly correlated to the U.S.
18 economy;

⁵⁴ State of North Carolina ex rel. Utilities Commission v. Cooper, 758 S.E.2d 635, 642 (2014) (“Cooper II”).

⁵⁵ Cooper II, 758 S.E.2d at 643.

⁵⁶ DNCP Remand Order, at 4-10.

⁵⁷ Cooper I, 366 N.C. 484, 739 S.E.2d 541 (2013).

⁵⁸ See, State of North Carolina Utilities Commission, Docket No. E-22, Sub 479, Order on Remand, July 23, 2015, at 39.

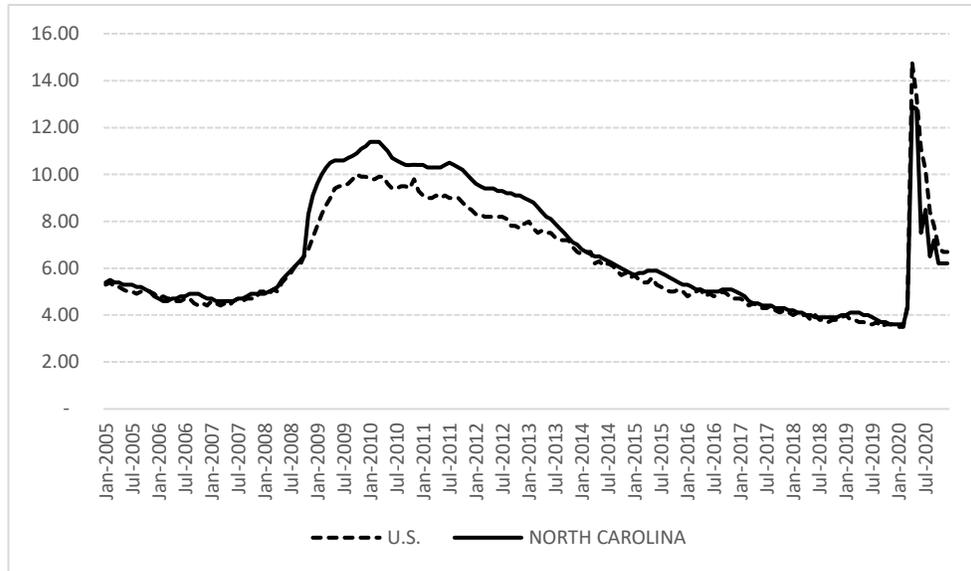
- 1 • Unemployment at both the state and county level remains highly correlated
2 with national rates of unemployment;
- 3 • Real Gross Domestic Product (“GDP”) in North Carolina also remains
4 highly correlated with U.S. real GDP growth; and
- 5 • Median household income in North Carolina has grown at a rate consistent
6 with the rest of the U.S. and remains strongly correlated with national levels.

7 **Q. PLEASE NOW DESCRIBE THE SPECIFIC MEASURES OF ECONOMIC**
8 **CONDITIONS THAT YOU REVIEWED.**

9 A. Turning first to the seasonally adjusted unemployment rate, prior to April 2020, the
10 unemployment rate had fallen substantially in North Carolina and the U.S. since
11 the 2008/2009 financial crisis. Although the unemployment rate in North Carolina
12 exceeded the national rate during and after the 2008/2009 financial crisis, by the
13 latter portion of 2013, the two were largely consistent. As the COVID-19 pandemic
14 hit the U.S., unemployment in North Carolina and across the U.S. spiked in April
15 2020 as many communities closed non-essential businesses to contain the spread
16 of the COVID-19 virus. Notably, North Carolina’s unemployment rate has fared
17 better than the overall U.S., even as both fell considerably by the end of 2020 (*see*
18 Chart 1, below).

1

Chart 1: Unemployment Rate (Seasonally Adjusted)⁵⁹



2

Between 2005 and 2020, the correlation between North Carolina’s unemployment rate and the national rate was 96.66%, indicating the two are highly correlated.

3

4

5

Second, I reviewed (seasonally unadjusted) unemployment rates in the counties served by Piedmont. As with the seasonally adjusted statistics described above, the unemployment rate in those counties spiked in April 2020 at 11.58% (0.92% below the state-wide average), but by November 2020 it had fallen substantially to 6.26%, somewhat above the rate statewide in North Carolina (6.10%) and below the overall rate in the U.S. (6.40%). From 2005 through November 2020, the correlation in unemployment rates between the counties served by Piedmont and the U.S., as well as North Carolina, were approximately 93.76% and 98.91%, respectively. In summary, county-level unemployment has

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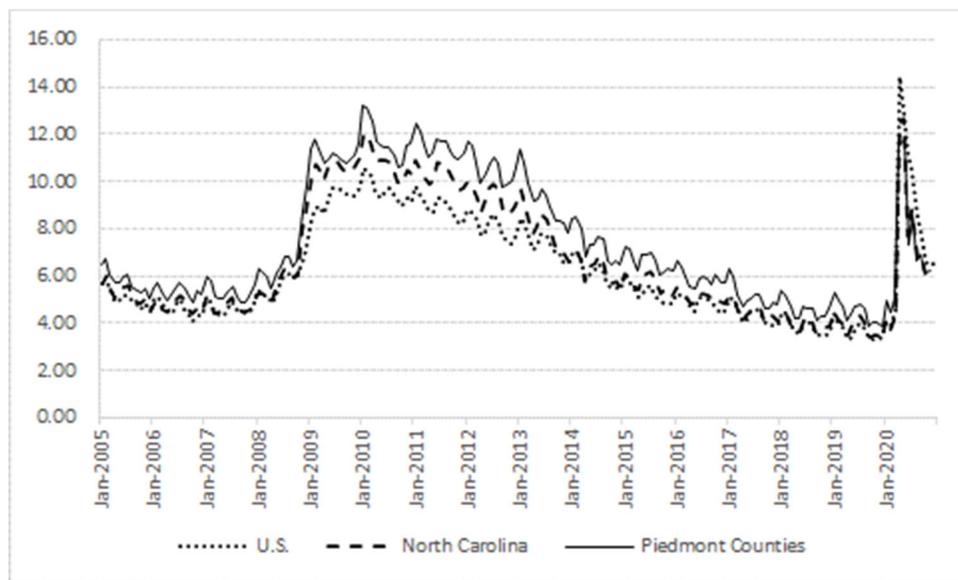
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⁵⁹

Source: Bureau of Labor Statistics.

1 fallen considerably since it recently spiked in April 2020, is similar to the U.S. and
 2 statewide unemployment rates, and is highly correlated to state and national
 3 unemployment rates.

4 **Chart 2: Seasonally Unadjusted Unemployment Rates⁶⁰**

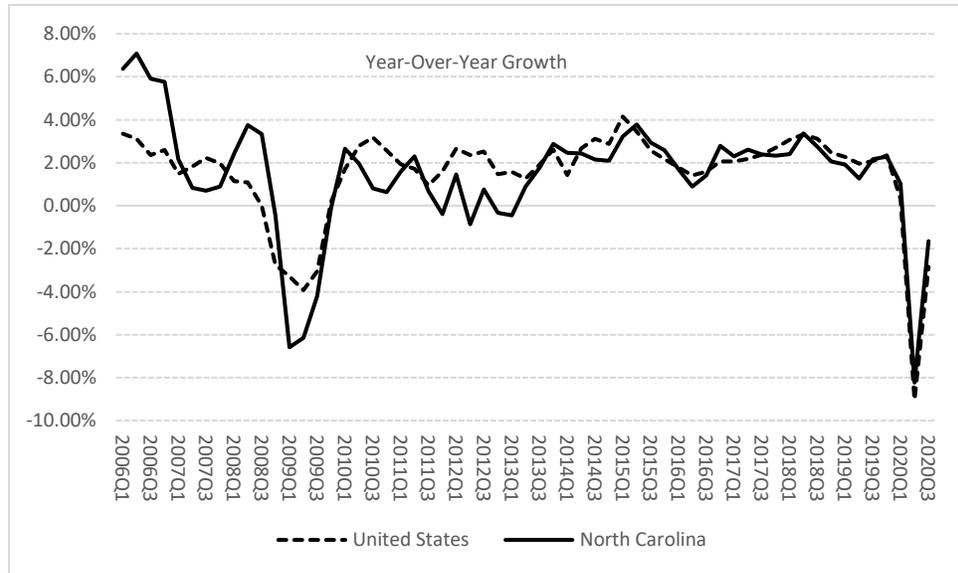


5
 6 Looking to real Gross Domestic Product growth, there also has been a
 7 relatively strong correlation between North Carolina and the national economy
 8 (approximately 81.50%). While the national rate of growth at times outpaced North
 9 Carolina between 2010 and 2014, since the first quarter of 2015, North Carolina's
 10 economic growth has been relatively consistent with U.S. economic growth.
 11 Moreover, North Carolina's real GDP growth fared better than the overall U.S. in
 12 2020; North Carolina's real GDP grew faster than the overall U.S. in the first
 13 quarter, and did not decline as much as the U.S. economy declined in the second
 14 and third quarters.

⁶⁰ Source: Bureau of Labor Statistics, St. Louis Federal Reserve.

1

Chart 3: Real Gross Domestic Product Growth Rate (Year over Year)⁶¹



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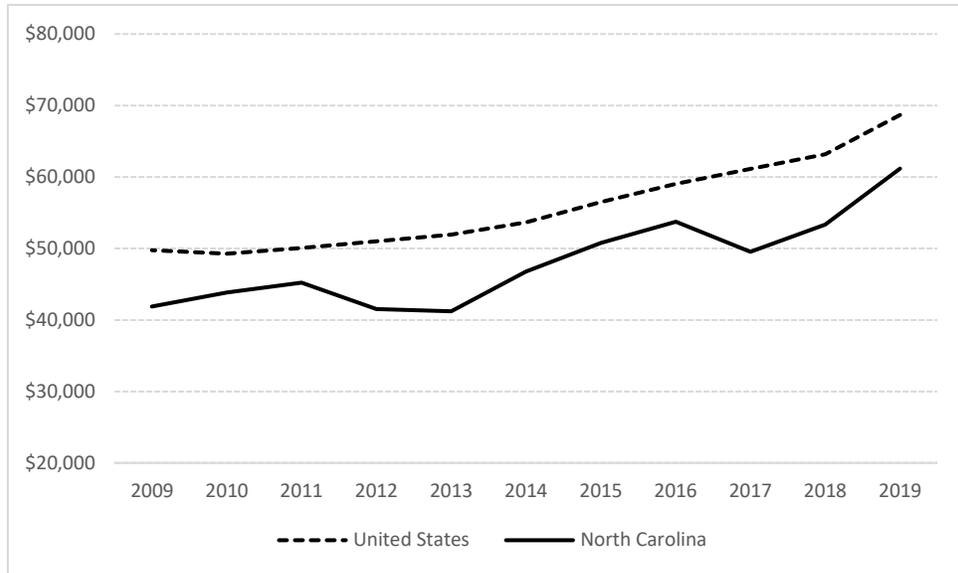
As to median household income, the correlation between North Carolina and the U.S. is relatively strong (94.00% from 2005 through 2019). Since 2009 (that is, the years subsequent to the financial crisis), nominal median household income in North Carolina has grown at a slightly faster pace than the national median income (3.85% vs. 3.27%, respectively; *see* Chart 4, below). To put household income in perspective, the Missouri Economic Research and Information Center reports that in the second quarter of 2019, North Carolina had the 22nd lowest cost of living index among the 50 states, the District of Columbia, and Puerto Rico.⁶²

⁶¹ Source: Bureau of Economic Analysis.

⁶² Source: meric.mo.gov/data/cost-living-data-series accessed January 27, 2021.

1

Chart 4: Median Household Income⁶³



2

Similarly, as shown in Chart 5, below, since 2009 total personal income, disposable income, personal consumption, and wages and salaries have generally been on an increasing trend at the national level. Although wages and salaries dipped in the second quarter of 2020, they rebounded in the third and fourth quarter to end the year higher than the first quarter of 2020.

3

4

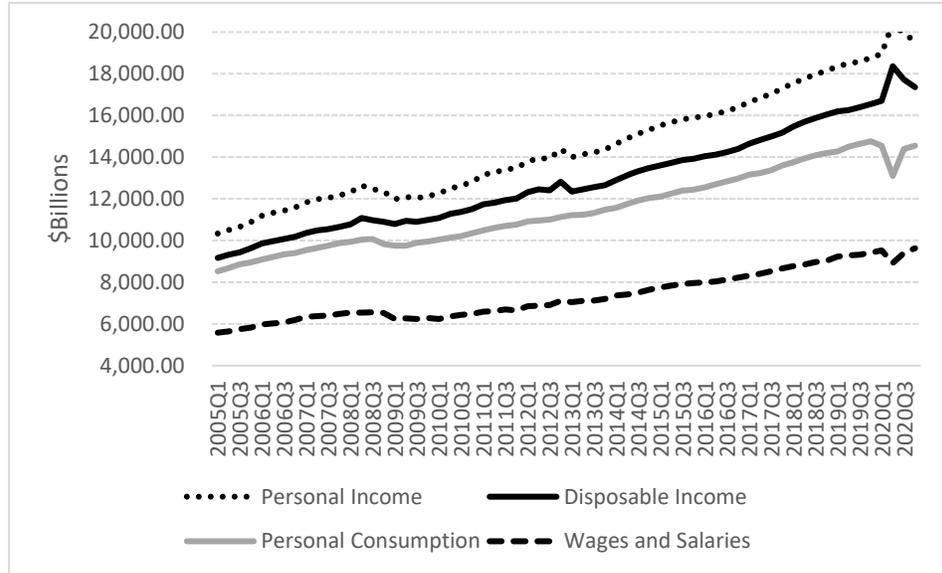
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⁶³ Source: U.S. Census Bureau, Current Population Survey.

1

Chart 5: United States Income and Consumption⁶⁴



2

3 **Q. HOW WOULD YOU SUMMARIZE THE ECONOMIC INDICATORS**
4 **THAT YOU HAVE ANALYZED AND DISCUSSED IN YOUR**
5 **TESTIMONY?**

6 **A.** Based on the data presented above, I observe the following:

- 7 • Unemployment at both the state and county level remains highly
- 8 correlated with national rates of unemployment. North Carolina's
- 9 unemployment rate and the rate in the counties served by Piedmont have
- 10 fallen significantly since spiking in April 2020.
- 11 • The state's real Gross Domestic Product remains highly correlated with
- 12 national GDP.
- 13 • Similarly, since 2005, median household income has grown in North

⁶⁴ Source: Bureau of Economic Analysis.

1 Carolina and has grown at a rate slightly faster than the national average.
2 Additionally, the overall cost of living in North Carolina also is below
3 the national average. Furthermore, at the national level, income has
4 generally been increasing since the financial crisis.

5 The U.S. and North Carolina economies both experienced an historically
6 difficult and challenging year as a result of the COVID-19 pandemic; yet the data
7 show that economic conditions have improved significantly. Moreover, although
8 economic conditions remain uncertain, North Carolina and the counties contained
9 within Piedmont's service area have fared better than the rest of the U.S. during the
10 COVID-19 pandemic.

11 **Q. IN YOUR OPINION, IS AN ROE OF 10.25% FAIR AND REASONABLE TO**
12 **PIEDMONT, ITS SHAREHOLDERS, AND ITS CUSTOMERS, AND NOT**
13 **UNDULY BURDENSOME TO PIEDMONT'S CUSTOMERS**
14 **CONSIDERING THE CHANGING ECONOMIC CONDITIONS?**

15 A. Yes. Based on the factors I have discussed here, I believe that an ROE of 10.25%
16 is fair and reasonable to Piedmont, its shareholders, and its customers in light of the
17 uncertainty surrounding the COVID-19 recovery.

18 **IX. CONCLUSION**

19 **Q. WHAT IS YOUR RECOMMENDED OVERALL ROE FOR PIEDMONT?**

20 A. Given the indicated ROE range applicable to the Utility Proxy Group of 9.46% to
21 12.18% and the Company-specific ROE range of 9.58% to 12.30%, I conclude that
22 an appropriate ROE for the Company is 10.25%.

1 **Q. IN YOUR OPINION, IS YOUR PROPOSED ROE OF 10.25% FAIR AND**
2 **REASONABLE TO PIEDMONT AND ITS CUSTOMERS?**

3 A. Yes, it is.

4 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

5 A. Yes, it does.

Piedmont Natural Gas Company, Inc.
General Rate Case
Docket No. G-9, Sub 781

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Sep 14 2021

APPENDIX A

Summary

Dylan is an experienced consultant and a Certified Rate of Return Analyst (CRRA) and Certified Valuation Analyst (CVA). He has served as a consultant for investor-owned and municipal utilities and authorities for 12 years. Dylan has extensive experience in rate of return analyses, class cost of service, rate design, and valuation for regulated public utilities. He has testified as an expert witness in the subjects of rate of return, cost of service, rate design, and valuation before 30 regulatory commissions in the U.S., one Canadian province, and an American Arbitration Association panel.

He also maintains the benchmark index against which the Hennessy Gas Utility Mutual Fund performance is measured.

Areas of Specialization

- Regulation and Rates
- Utilities
- Mutual Fund Benchmarking
- Capital Market Risk
- Financial Modeling
- Valuation
- Regulatory Strategy
- Rate Case Support
- Rate of Return
- Cost of Service
- Rate Design

Recent Expert Testimony Submission/Apearances

Jurisdiction	Topic
■ Massachusetts Department of Public Utilities	Rate of Return
■ New Jersey Board of Public Utilities	Rate of Return
■ Hawaii Public Utilities Commission	Cost of Service, Rate Design
■ South Carolina Public Service Commission	Return on Common Equity
■ American Arbitration Association	Valuation

Recent Assignments

- Provided expert testimony on the cost of capital for ratemaking purposes before numerous state utility regulatory agencies
- Maintains the benchmark index against which the Hennessy Gas Utility Mutual Fund performance is measured
- Sponsored valuation testimony for a large municipal water company in front of an American Arbitration Association Board to justify the reasonability of their lease payments to the City
- Co-authored a valuation report on behalf of a large investor-owned utility company in response to a new state regulation which allowed the appraised value of acquired assets into rate base

Recent Publications and Speeches

- Co-Author of: "Decoupling, Risk Impacts and the Cost of Capital", co-authored with Richard A. Michelfelder, Ph.D., Rutgers University and Pauline M. Ahern. The Electricity Journal, March, 2020.
- Co-Author of: "Decoupling Impact and Public Utility Conservation Investment", co-authored with Richard A. Michelfelder, Ph.D., Rutgers University and Pauline M. Ahern. Energy Policy Journal, 130 (2019), 311-319.
- "Establishing Alternative Proxy Groups", before the Society of Utility and Regulatory Financial Analysts: 51st Financial Forum, April 4, 2019, New Orleans, LA.
- "Past is Prologue: Future Test Year", Presentation before the National Association of Water Companies 2017 Southeast Water Infrastructure Summit, May 2, 2017, Savannah, GA.
- Co-author of: "Comparative Evaluation of the Predictive Risk Premium Model™, the Discounted Cash Flow Model and the Capital Asset Pricing Model", co-authored with Richard A. Michelfelder, Ph.D., Rutgers University, Pauline M. Ahern, and Frank J. Hanley, The Electricity Journal, May, 2013.
- "Decoupling: Impact on the Risk and Cost of Common Equity of Public Utility Stocks", before the Society of Utility and Regulatory Financial Analysts: 45th Financial Forum, April 17-18, 2013, Indianapolis, IN.

SPONSOR	DATE	CASE/APPLICANT	DOCKET No.	SUBJECT
Regulatory Commission of Alaska				
Alaska Power Company	09/20	Alaska Power Company; Goat Lake Hydro, Inc.; BBL Hydro, Inc.	Tariff Nos. TA886-2; TA6-521; TA4-573	Capital Structure
Alaska Power Company	07/16	Alaska Power Company	Docket No. TA857-2	Rate of Return
Alberta Utilities Commission				
AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	01/20	AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	2021 Generic Cost of Capital, Proceeding ID. 24110	Rate of Return
Arizona Corporation Commission				
EPCOR Water Arizona, Inc.	06/20	EPCOR Water Arizona, Inc.	Docket No. WS-01303A-20-0177	Rate of Return
Arizona Water Company	12/19	Arizona Water Company – Western Group	Docket No. W-01445A-19-0278	Rate of Return
Arizona Water Company	08/18	Arizona Water Company – Northern Group	Docket No. W-01445A-18-0164	Rate of Return
Colorado Public Utilities Commission				
Summit Utilities, Inc.	04/18	Colorado Natural Gas Company	Docket No. 18AL-0305G	Rate of Return
Atmos Energy Corporation	06/17	Atmos Energy Corporation	Docket No. 17AL-0429G	Rate of Return
Delaware Public Service Commission				
Delmarva Power & Light Co.	11/20	Delmarva Power & Light Co.	Docket No. 20-0149 (Electric)	Return on Equity
Delmarva Power & Light Co.	10/20	Delmarva Power & Light Co.	Docket No. 20-0150 (Gas)	Return on Equity
Tidewater Utilities, Inc.	11/13	Tidewater Utilities, Inc.	Docket No. 13-466	Capital Structure
Public Service Commission of the District of Columbia				
Washington Gas Light Company	09/20	Washington Gas Light Company	Formal Case No. 1162	Rate of Return
Federal Energy Regulatory Commission				
LS Power Grid California, LLC	10/20	LS Power Grid California, LLC	Docket No. ER21-195-000	Rate of Return
Florida Public Service Commission				
Peoples Gas System	09/20	Peoples Gas System	Docket No. 20200051-GU	Rate of Return
Utilities, Inc. of Florida	06/20	Utilities, Inc. of Florida	Docket No. 20200139-WS	Rate of Return
Hawaii Public Utilities Commission				
Launiupoko Irrigation Company, Inc.	12/20	Launiupoko Irrigation Company, Inc.	Docket No. 2020-0217 / Transferred to 2020-0089	Capital Structure
Lanai Water Company, Inc.	12/19	Lanai Water Company, Inc.	Docket No. 2019-0386	Cost of Service / Rate Design
Manele Water Resources, LLC	08/19	Manele Water Resources, LLC	Docket No. 2019-0311	Cost of Service / Rate Design
Kaupulehu Water Company	02/18	Kaupulehu Water Company	Docket No. 2016-0363	Rate of Return
Aqua Engineers, LLC	05/17	Puhi Sewer & Water Company	Docket No. 2017-0118	Cost of Service / Rate Design
Hawaii Resources, Inc.	09/16	Laie Water Company	Docket No. 2016-0229	Cost of Service / Rate Design
Illinois Commerce Commission				
Ameren Illinois Company d/b/a Ameren Illinois	07/20	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 20-0308	Return on Equity
Utility Services of Illinois, Inc.	11/17	Utility Services of Illinois, Inc.	Docket No. 17-1106	Cost of Service / Rate Design

SPONSOR	DATE	CASE/APPLICANT	DOCKET No.	SUBJECT
Aqua Illinois, Inc.	04/17	Aqua Illinois, Inc.	Docket No. 17-0259	Rate of Return
Utility Services of Illinois, Inc.	04/15	Utility Services of Illinois, Inc.	Docket No. 14-0741	Rate of Return
Indiana Utility Regulatory Commission				
Aqua Indiana, Inc.	03/16	Aqua Indiana, Inc. Aboite Wastewater Division	Docket No. 44752	Rate of Return
Twin Lakes, Utilities, Inc.	08/13	Twin Lakes, Utilities, Inc.	Docket No. 44388	Rate of Return
Kansas Corporation Commission				
Atmos Energy	07/19	Atmos Energy	19-ATMG-525-RTS	Rate of Return
Kentucky Public Service Commission				
Bluegrass Water Utility Operating Company	10/20	Bluegrass Water Utility Operating Company	2020-00290	Return on Equity
Louisiana Public Service Commission				
Southwestern Electric Power Company	12/20	Southwestern Electric Power Company	Docket No. U-35441	Return on Equity
Atmos Energy	04/20	Atmos Energy	Docket No. U-35535	Rate of Return
Louisiana Water Service, Inc.	06/13	Louisiana Water Service, Inc.	Docket No. U-32848	Rate of Return
Maryland Public Service Commission				
Washington Gas Light Company	08/20	Washington Gas Light Company	Case No. 9651	Rate of Return
FirstEnergy, Inc.	08/18	Potomac Edison Company	Case No. 9490	Rate of Return
Massachusetts Department of Public Utilities				
Unitil Corporation	12/19	Fitchburg Gas & Electric Co. (Elec.)	D.P.U. 19-130	Rate of Return
Unitil Corporation	12/19	Fitchburg Gas & Electric Co. (Gas)	D.P.U. 19-131	Rate of Return
Liberty Utilities	07/15	Liberty Utilities d/b/a New England Natural Gas Company	Docket No. 15-75	Rate of Return
Minnesota Public Utilities Commission				
Northern States Power Company	11/20	Northern States Power Company	Docket No. E002/GR-20-723	Rate of Return
Mississippi Public Service Commission				
Atmos Energy	03/19	Atmos Energy	Docket No. 2015-UN-049	Capital Structure
Atmos Energy	07/18	Atmos Energy	Docket No. 2015-UN-049	Capital Structure
Missouri Public Service Commission				
Spire Missouri, Inc.	12/20	Spire Missouri, Inc.	Case No. GR-2021-0108	Return on Equity
Indian Hills Utility Operating Company, Inc.	10/17	Indian Hills Utility Operating Company, Inc.	Case No. SR-2017-0259	Rate of Return
Raccoon Creek Utility Operating Company, Inc.	09/16	Raccoon Creek Utility Operating Company, Inc.	Docket No. SR-2016-0202	Rate of Return
Public Utilities Commission of Nevada				
Southwest Gas Corporation	08/20	Southwest Gas Corporation	Docket No. 20-02023	Return on Equity
New Hampshire Public Utilities Commission				
Aquarion Water Company of New Hampshire, Inc.	12/20	Aquarion Water Company of New Hampshire, Inc.	Docket No. DW 20-184	Rate of Return
New Jersey Board of Public Utilities				
Atlantic City Electric Company	12/20	Atlantic City Electric Company	Docket No. ER20120746	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET No.	SUBJECT
FirstEnergy	02/20	Jersey Central Power & Light Co.	Docket No. ER20020146	Rate of Return
Aqua New Jersey, Inc.	12/18	Aqua New Jersey, Inc.	Docket No. WR18121351	Rate of Return
Middlesex Water Company	10/17	Middlesex Water Company	Docket No. WR17101049	Rate of Return
Middlesex Water Company	03/15	Middlesex Water Company	Docket No. WR15030391	Rate of Return
The Atlantic City Sewerage Company	10/14	The Atlantic City Sewerage Company	Docket No. WR14101263	Cost of Service / Rate Design
Middlesex Water Company	11/13	Middlesex Water Company	Docket No. WR1311059	Capital Structure
New Mexico Public Regulation Commission				
Southwestern Public Service Company	01/21	Southwestern Public Service Company	Case No. 20-00238-UT	Return on Equity
North Carolina Utilities Commission				
Duke Energy Carolinas, LLC	07/20	Duke Energy Carolinas, LLC	Docket No. E-7, Sub 1214	Return on Equity
Duke Energy Progress, LLC	07/20	Duke Energy Progress, LLC	Docket No. E-2, Sub 1219	Return on Equity
Aqua North Carolina, Inc.	12/19	Aqua North Carolina, Inc.	Docket No. W-218 Sub 526	Rate of Return
Carolina Water Service, Inc.	06/19	Carolina Water Service, Inc.	Docket No. W-354 Sub 364	Rate of Return
Carolina Water Service, Inc.	09/18	Carolina Water Service, Inc.	Docket No. W-354 Sub 360	Rate of Return
Aqua North Carolina, Inc.	07/18	Aqua North Carolina, Inc.	Docket No. W-218 Sub 497	Rate of Return
North Dakota Public Service Commission				
Northern States Power Company	11/20	Northern States Power Company	Case No. PU-20-441	Rate of Return
Public Utilities Commission of Ohio				
Aqua Ohio, Inc.	05/16	Aqua Ohio, Inc.	Docket No. 16-0907-WW-AIR	Rate of Return
Pennsylvania Public Utility Commission				
Valley Energy, Inc.	07/19	C&T Enterprises	Docket No. R-2019-3008209	Rate of Return
Wellsboro Electric Company	07/19	C&T Enterprises	Docket No. R-2019-3008208	Rate of Return
Citizens' Electric Company of Lewisburg	07/19	C&T Enterprises	Docket No. R-2019-3008212	Rate of Return
Steelton Borough Authority	01/19	Steelton Borough Authority	Docket No. A-2019-3006880	Valuation
Mahoning Township, PA	08/18	Mahoning Township, PA	Docket No. A-2018-3003519	Valuation
SUEZ Water Pennsylvania Inc.	04/18	SUEZ Water Pennsylvania Inc.	Docket No. R-2018-000834	Rate of Return
Columbia Water Company	09/17	Columbia Water Company	Docket No. R-2017-2598203	Rate of Return
Veolia Energy Philadelphia, Inc.	06/17	Veolia Energy Philadelphia, Inc.	Docket No. R-2017-2593142	Rate of Return
Emporium Water Company	07/14	Emporium Water Company	Docket No. R-2014-2402324	Rate of Return
Columbia Water Company	07/13	Columbia Water Company	Docket No. R-2013-2360798	Rate of Return
Penn Estates Utilities, Inc.	12/11	Penn Estates, Utilities, Inc.	Docket No. R-2011-2255159	Capital Structure / Long-Term Debt Cost Rate
South Carolina Public Service Commission				
Blue Granite Water Co.	12/19	Blue Granite Water Company	Docket No. 2019-292-WS	Rate of Return
Carolina Water Service, Inc.	02/18	Carolina Water Service, Inc.	Docket No. 2017-292-WS	Rate of Return
Carolina Water Service, Inc.	06/15	Carolina Water Service, Inc.	Docket No. 2015-199-WS	Rate of Return
Carolina Water Service, Inc.	11/13	Carolina Water Service, Inc.	Docket No. 2013-275-WS	Rate of Return
United Utility Companies, Inc.	09/13	United Utility Companies, Inc.	Docket No. 2013-199-WS	Rate of Return

SPONSOR	DATE	CASE/APPLICANT	DOCKET No.	SUBJECT
Utility Services of South Carolina, Inc.	09/13	Utility Services of South Carolina, Inc.	Docket No. 2013-201-WS	Rate of Return
Tega Cay Water Services, Inc.	11/12	Tega Cay Water Services, Inc.	Docket No. 2012-177-WS	Capital Structure
Tennessee Public Utility Commission				
Piedmont Natural Gas Company	07/20	Piedmont Natural Gas Company	Docket No. 20-00086	Return on Equity
Public Utility Commission of Texas				
Southwestern Public Service Company	02/21	Southwestern Public Service Company	Docket No. 51802	Return on Equity
Southwestern Electric Power Company	10/20	Southwestern Electric Power Company	Docket No. 51415	Rate of Return
Virginia State Corporation Commission				
Massanutten Public Service Corporation	12/20	Massanutten Public Service Corporation	Case No. PUE-2020-00039	Return on Equity
Aqua Virginia, Inc.	07/20	Aqua Virginia, Inc.	PUR-2020-00106	Rate of Return
WGL Holdings, Inc.	07/18	Washington Gas Light Company	PUR-2018-00080	Rate of Return
Atmos Energy Corporation	05/18	Atmos Energy Corporation	PUR-2018-00014	Rate of Return
Aqua Virginia, Inc.	07/17	Aqua Virginia, Inc.	PUR-2017-00082	Rate of Return
Massanutten Public Service Corp.	08/14	Massanutten Public Service Corp.	PUE-2014-00035	Rate of Return / Rate Design

BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION

REBUTTAL TESTIMONY

OF

DYLAN W. D'ASCENDIS, CRRA, CVA

ON BEHALF OF

PIEDMONT NATURAL GAS COMPANY, INC.

Docket No. G-9, Sub 781

August 25, 2021

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1 **I. INTRODUCTION, PURPOSE, AND SUMMARY**

2 **Q. PLEASE STATE YOUR NAME, AFFILIATION, AND BUSINESS ADDRESS.**

3 A. My name is Dylan W. D'Ascendis. I am employed by ScottMadden, Inc. as Partner. My
4 business address is 3000 Atrium Way, Suite 241, Mount Laurel, NJ 08054.

5 **Q. ON WHOSE BEHALF ARE YOU SUBMITTING THIS TESTIMONY?**

6 A. I am submitting this rebuttal testimony (referred to throughout as my "Rebuttal
7 Testimony") before the North Carolina Utilities Commission ("Commission") on behalf of
8 Piedmont Natural Gas Company, Inc. ("Piedmont" or the "Company").

9 **Q. DID YOU FILE DIRECT TESTIMONY IN THIS PROCEEDING?**

10 A. Yes, I did.

11 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

12 A. The purpose of my Rebuttal Testimony is two-fold. First, given the passage of time since
13 my Direct Testimony,¹ I update my cost of common equity ("ROE") analyses to reflect
14 current data. Second, I respond to the direct testimonies of Mr. John R. Hinton, who
15 testifies on behalf of the Public Staff – North Carolina Utilities Commission ("Public
16 Staff"), Mr. Kevin W. O'Donnell, who testifies on behalf of Carolina Utility Customers
17 Association ("CUCA"), and Mr. Nicholas Phillips, Jr., who testifies on behalf of Carolina
18 Industrial Group for Fair Utility Rates IV ("CIGFUR") (collectively, "the Opposing
19 Witnesses") as they relate to the Company's ROE on its North Carolina jurisdictional rate
20 base.

¹ My Direct Testimony used market data as of January 29, 2021.

1 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS.**

2 A. Due to the passage of time since the analysis in my Direct Testimony, I have updated my
3 ROE analyses as of July 30, 2021. Based on these updated analyses, my range of
4 reasonable ROEs attributable to Piedmont is between 9.59% and 12.72% (unadjusted) and
5 9.70% to 12.83% (adjusted). Therefore, my specific ROE recommendation of 10.25% for
6 Piedmont in this case continues to be reasonable, if not conservative. In view of current
7 markets and the updated results of my ROE models, ROEs of 9.42% (Staff) and 9.00%
8 (CUCA) are insufficient at this time.²

9 **Q. DO YOU HAVE GENERAL COMMENTS REGARDING MR. HINTON'S AND**
10 **MR. O'DONNELL'S RECOMMENDATED ROES?**

11 A. Yes, I do. Mr. Hinton's and Mr. O'Donnell's recommended ROEs are insufficient, in part,
12 due to their substantial³ (Hinton) and exclusive (O'Donnell) reliance on the discounted
13 cash flow ("DCF") model results which tend to understate Piedmont's return requirement
14 in the current market. There is both academic and practical support for the use of multiple
15 models in an ROE analysis, which will be explained in detail below.

16 **Q. HAVE YOU PREPARED EXHIBITS IN SUPPORT OF YOUR**
17 **RECOMMENDATION?**

18 A. Yes. I have prepared Exhibit DWD-1R through DWD-14R, which were prepared by me
19 or under my direction.

² While Mr. Phillips recommends that the Commission should not approve an ROE greater than 9.56% in this proceeding, he does not provide an independent analysis of the Company's cost of common equity. Given the evidence in this proceeding, Mr. Phillips' recommendation of an ROE no higher than 9.56% is also insufficient at this time.

³ Mr. Hinton gives three-quarters weight to his DCF model results and one-quarter weight to his RPM results as will be discussed below.

1 **Q. HOW IS THE REMAINDER OF YOUR REBUTTAL TESTIMONY**
2 **ORGANIZED?**

3 A. The remainder of my Rebuttal Testimony is organized as follows:

- 4 • Section II – Provides my updated analyses;
- 5 • Section III – Discusses the undue weighting of DCF model results by Mr. Hinton
6 and Mr. O'Donnell;
- 7 • Section IV – Contains my response to Mr. Hinton;
- 8 • Section V – Contains my response to Mr. O'Donnell;
- 9 • Section VI – Contains my response to Mr. Phillips; and
- 10 • Section VII – Summarizes my conclusions and recommendations.

11 **Q. PLEASE SUMMARIZE THE KEY ISSUES AND RECOMMENDATIONS**
12 **OFFERED BY OPPOSING WITNESSES THAT YOU ADDRESS IN YOUR**
13 **REBUTTAL TESTIMONY.**

14 A. My Rebuttal Testimony responds to substantive recommendations offered by the Opposing
15 Witnesses in their direct testimonies. I will address the following issues common to Mr.
16 Hinton's and Mr. O'Donnell's direct testimonies:

- 17 • Their selection of their proxy group companies;
- 18 • Their undue weighting of DCF model results in their ROE recommendations;
- 19 • Their choice of growth rates in their DCF models;
- 20 • Their application of the comparable earnings model ("CEM"); and
- 21 • Their failure to reflect flotation costs.

1 Specific to Mr. Hinton's direct testimony, I will address the following:

- 2 • His application of the risk premium model ("RPM");
- 3 • His opinion that mechanisms in place for the Company reduce risk; and
- 4 • His use of interest coverage ratios to justify his recommended ROE.

5 Specific to Mr. O'Donnell's direct testimony, I will address the following:

- 6 • His interpretation of capital market conditions;
- 7 • His use of the plowback ratio in his DCF model; and
- 8 • His application of the Capital Asset Pricing Model ("CAPM").

9 These factors serve to bias Mr. Hinton's and Mr. O'Donnell's ROE
10 recommendations downward. My Rebuttal Testimony addresses these factors in detail, as
11 well as other issues specific to each witness, and addresses the unfounded critiques of my
12 Direct Testimony by the Opposing Witnesses.

13 **II. UPDATED ANALYSES**

14 **Q. HAVE YOU UPDATED YOUR COST OF COMMON EQUITY ANALYSES FOR**
15 **YOUR REBUTTAL TESTIMONY?**

16 A. Yes, I have. Due to the passage of time since my Direct Testimony analysis (data as of
17 January 29, 2021), I have updated my analysis using data as of July 30, 2021.

18 **Q. HAVE YOU UPDATED YOUR UTILITY PROXY GROUP FOR YOUR UPDATED**
19 **ANALYSES?**

20 A. Yes, I have. Using fiscal year 2020 data, NiSource Inc. fails the criteria of having at least
21 60% of net operating income and assets attributable to natural gas distribution operations.
22 As such, I have eliminated them from my updated Utility Proxy Group.

1 **Q. HAVE YOU APPLIED ANY OF YOUR ROE MODELS DIFFERENTLY IN YOUR**
2 **UPDATED ANALYSES?**

3 A. No, I have not.

4 **Q. WHAT ARE THE RESULTS OF YOUR UPDATED ANALYSES?**

5 A. Using data available as of July 30, 2021, my updated results are presented in page 1 of
6 Exhibit DWD-1R and in Table 1, below.

7 **Table 1: Updated Cost of Common Equity Results**

Discounted Cash Flow Model	9.59%
Risk Premium Model	10.71%
Capital Asset Pricing Model	12.02%
Cost of Equity Models Applied to Comparable Risk, Non-Price Regulated Companies	<u>12.72%</u>
Indicated Range	9.59% - 12.72%
Size Adjustment	0.00%
Flotation Cost Adjustment	<u>0.11%</u>
Recommended Range	9.70% - 12.83%
Recommended Cost of Common Equity	<u>10.25%</u>

8
9 In view of the unadjusted and adjusted ranges of ROE, I maintain my original ROE
10 recommendation of 10.25%. Upon reviewing my updated results, two items became
11 apparent: (1) the indicated results of my ROE models have generally increased from my
12 analyses presented in my Direct Testimony, which is a directional indicator that the
13 investor-required return has increased since my Direct Testimony, and (2) since my

1 recommended ROE of 10.25% is in the bottom half of my ranges of ROEs, it is a
2 conservative measure of the Company's ROE at this time.

3 **III. UNDUE WEIGHTING OF DCF MODEL RESULTS**

4 **Q. DO YOU HAVE A GENERAL COMMENT REGARDING MR. HINTON'S AND**
5 **MR. O'DONNELL'S ROE RECOMMENDATIONS?**

6 A. Yes, I do. As mentioned previously, Mr. Hinton's and Mr. O'Donnell's recommended
7 ROEs of 9.42% and 9.00% are inadequate, in part, because they place undue weight on
8 their DCF model results, which tend to mis-specify the investor-required return when
9 market-to-book ("M/B") ratios are not at unity (*i.e.*, 1.0).

10 **Q. DO THE OPPOSING WITNESSES RELY PRIMARILY ON THE DCF MODEL**
11 **TO ARRIVE AT THEIR ROE RECOMMENDATION FOR THE COMPANY?**

12 A. Yes, they do. Mr. Hinton's ROE recommendation of 9.42% is based on the average of four
13 model results, three of which are his DCF results.⁴ Mr. O'Donnell's ROE recommendation
14 of 9.00%⁵ is based on the upper end of his DCF model results as he believes that the DCF
15 model is superior to all other ROE models.⁶ As discussed in my Direct Testimony,⁷ the
16 use of multiple models adds reliability to the estimation of the common equity cost rate,
17 and the prudence of using multiple cost of common equity models is supported in both the
18 financial literature and regulatory precedent.

19 **Q. CAN YOU PLEASE PROVIDE SOME EXAMPLES FROM THE FINANCIAL**
20 **LITERATURE WHICH SUPPORT THE USE OF MULTIPLE COST OF**

⁴ Hinton Direct Testimony, at 38.

⁵ O'Donnell Direct Testimony, at 4.

⁶ *Ibid.*, at 41.

⁷ D'Ascendis Direct Testimony, at 17.

1 in parallel with DCF models or other techniques for interpreting capital
 2 market data. (emphasis added)

3 Reliance on multiple tests recognizes that no single methodology produces
 4 a precise definitive estimate of the cost of equity. As stated in Bonbright,
 5 Danielsen, and Kamerschen (1988), ‘no single or group test or technique is
 6 conclusive.’ Only a fool discards relevant evidence. (italics in original)
 7 (emphasis added)

8 * * *

9 While it is certainly appropriate to use the DCF methodology to estimate
 10 the cost of equity, there is no proof that the DCF produces a more accurate
 11 estimate of the cost of equity than other methodologies. Sole reliance on
 12 the DCF model ignores the capital market evidence and financial theory
 13 formalized in the CAPM and other risk premium methods. **The DCF model**
 14 **is one of many tools to be employed in conjunction with other methods**
 15 **to estimate the cost of equity.** It is not a superior methodology that
 16 supplants other financial theory and market evidence. The broad usage of
 17 the DCF methodology in regulatory proceedings in contrast to its virtual
 18 disappearance in academic textbooks does not make it superior to other
 19 methods. The same is true of the Risk Premium and CAPM methodologies.
 20 (emphasis added)⁸

21 Finally, Brigham and Gapenski note:

22 In practical work, *it is often best to use all three methods – CAPM, bond*
 23 *yield plus risk premium, and DCF – and then apply judgment when the*
 24 *methods produce different results. People experienced in estimating equity*
 25 *capital costs recognize that both careful analysis and some very fine*
 26 *judgments are required. It would be nice to pretend that these judgments*
 27 *are unnecessary and to specify an easy, precise way of determining the exact*
 28 *cost of equity capital. Unfortunately, this is not possible. Finance is in large*
 29 *part a matter of judgment, and we simply must face this fact. (italics in*
 30 *original)⁹*

31 In the academic literature cited above, three methods are consistently mentioned:

32 the DCF, CAPM, and the RPM, all of which I used in my analyses.

⁸ Roger A. Morin, New Regulatory Finance, Public Utilities Reports, Inc., 2006, at 428-431. (“Morin”)

⁹ Eugene F. Brigham and Louis C. Gapenski, Financial Management – Theory and Practice, 4th Ed. (The Dryden Press, 1985) at 256.

1 **Q. CAN YOU ALSO PROVIDE SPECIFIC EXAMPLES WHERE THIS**
2 **COMMISSION HAS CONSIDERED MULTIPLE COST OF COMMON EQUITY**
3 **MODELS?**

4 A. Yes. The Commission in Docket W-354, Sub 360, concerning Carolina Water Service of
5 North Carolina, stated:

6 The average of witness D'Ascendis' utility proxy group DCF result of
7 9.15%, traditional CAPM result of 10.67%, total market RPM of 10.56%,
8 witness Hinton's DCF result of 8.70% and RPM of 9.70% is 9.75%. The
9 Commission approved return on equity of 9.75% is thus supported by the
10 average of the results of the above listed cost of equity models which the
11 Commission finds are entitled to substantial weight based on the record in
12 this proceeding.

13 Also, in Docket E-2, Sub 1142, concerning Duke Energy Progress, LLC, the
14 Commission stated:

15 Thus, the Commission finds and concludes that the Stipulation, along with
16 the expert testimony of witnesses Hevert (risk premium analysis),
17 O'Donnell (comparable earnings), and Parcell (comparable earnings), are
18 credible and substantial evidence of the appropriate rate of return on equity
19 and are entitled to substantial weight in the Commission's determination of
20 this issue.

21 In the Commission Orders cited above, there is clear language that the Commission
22 considers multiple models in its determination of ROE. It is also my interpretation of these
23 Orders that the Commission correctly observes capital market conditions and their effect
24 on the model results in determining a ROE for utility companies. This, in addition to the
25 academic literature cited above, justifies the use of the DCF, CAPM, RPM, and CEM in
26 this proceeding.

1 **Q. WHY IS IT YOUR OPINION THAT THE DCF MODEL MIS-SPECIFIES**
2 **INVESTOR-REQUIRED RETURN WHEN M/B RATIOS ARE NOT AT UNITY?**

3 A. Traditional rate base/rate of return regulation, where a market-based common equity cost
4 rate is applied to a book value rate base, presumes that M/B ratios are at unity or 1.00.

5 However, that is rarely the case. Morin states:

6 The third and perhaps most important reason for caution and skepticism is
7 that application of the DCF model produces estimates of common equity
8 cost that are consistent with investors' expected return only when stock
9 price and book value are reasonably similar, that is, when the M/B is close
10 to unity. As shown below, application of the standard DCF model to utility
11 stocks understates the investor's expected return when the market-to-book
12 (M/B) ratio of a given stock exceeds unity. This was particularly relevant
13 in the capital market environment of the 1990s and 2000s where utility
14 stocks were trading at M/B ratios well above unity and have been for nearly
15 two decades. The converse is also true, that is, the DCF model overstates
16 that investor's return when the stock's M/B ratio is less than unity. The
17 reason for the distortion is that the DCF market return is applied to a book
18 value rate base by the regulator, that is, a utility's earnings are limited to
19 earnings on a book value rate base.¹⁰

20 As Morin explains, a "simplified" DCF model, like that used by Mr. Hinton and
21 Mr. O'Donnell, assumes an M/B ratio of 1.0 and therefore under- or over-states investors'
22 required return when market value exceeds or is less than book value, respectively. It does
23 so because equity investors evaluate and receive their returns on the market value of a
24 utility's common equity, whereas regulators authorize returns on the book value of that
25 common equity. This means that the market-based DCF will produce the total annual
26 dollar return expected by investors only when market and book values of common equity
27 are equal, a very rare and unlikely situation.

¹⁰ Morin, at 434.

1 **Q. WHY DO MARKET AND BOOK VALUES DIVERGE?**

2 A. Market values can diverge from book values for a myriad of reasons including, but not
3 limited to, EPS and DPS expectations, merger/acquisition expectations, interest rates, etc.

4 As noted by Phillips:

5 Many question the assumption that market price should equal book value,
6 believing that 'the earnings of utilities should be sufficiently high to achieve
7 market-to-book ratios which are consistent with those prevailing for stocks
8 of unregulated companies.¹¹

9 In addition, Bonbright states:

10 In the first place, commissions cannot forecast, except within wide limits,
11 the effect their rate orders will have on the market prices of the stocks of
12 the companies they regulate. In the second place, *whatever the initial*
13 *market prices may be, they are sure to change not only with the changing*
14 *prospects for earnings, but with the changing outlook of an inherently*
15 *volatile stock market.* In short, market prices are beyond the control, though
16 not beyond the influence of rate regulation. Moreover, even if a
17 commission did possess the power of control, any attempt to exercise it ...
18 would result in harmful, uneconomic shifts in public utility rate levels.
19 (italics added)¹²

20 **Q. CAN THE UNDER- OR OVER-STATEMENT OF INVESTORS' REQUIRED**
21 **RETURN BY THE DCF MODEL BE DEMONSTRATED MATHEMATICALLY?**

22 A. Yes, it can. Schedule DWD-2R demonstrates how market-based DCF cost rates of 9.39%¹³
23 and 9.00%¹⁴, when applied to a book value substantially below market value, will understate
24 the investors' required return on market value. In this situation, there is no realistic
25 opportunity for the utility to earn the expected market-based rate of return on book value. In
26 Column [A], investors expect a 9.39% return on an average market price of \$62.90 for Mr.

¹¹ Charles F. Phillips, The Regulation of Public Utilities, Public Utilities Reports, Inc., 1993, p. 395.

¹² James C. Bonbright, Albert L. Danielsen and David R. Kamerschen, Principles of Public Utility Rates (Public Utilities Reports, Inc., 1988), p. 334.

¹³ The average of Mr. Hinton's three DCF cost rates, calculated from Public Staff Hinton Exhibit 9.

¹⁴ O'Donnell Direct Testimony, at 55.

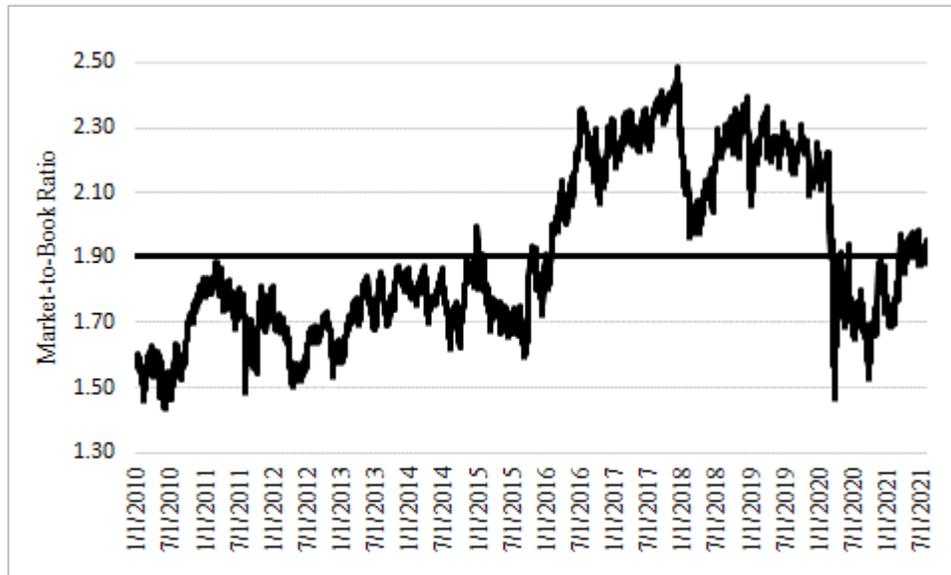
1 Hinton's proxy group companies. Column [B] shows that when Mr. Hinton's 9.39% return
2 rate is applied to a book value of \$31.70,¹⁵ the total annual return opportunity is \$2.977.
3 After subtracting dividends of \$2.013, the investor only has the opportunity for \$0.964 in
4 market appreciation, or 1.53%. The magnitude of the understatement of investors' required
5 return on market value using Mr. Hinton's 9.39% cost rate is 4.66%, which is calculated by
6 subtracting the market appreciation based on book value of 1.53% from Mr. Hinton's
7 expected growth rate of 6.19%. Schedule DWD-2R also shows that the understatement of
8 investors' required return on market value using Mr. O'Donnell's 9.00% cost rate is 4.36%.
9 In order to synchronize investor expectations with a book value return calculation, premiums
10 of 466 and 436 basis points would need to be added to the results of Mr. Hinton's and Mr.
11 O'Donnell's DCF analyses, as is discussed below.

12 **Q. HOW DO THE M/B RATIOS OF THE COMBINED PROXY GROUP COMPARE**
13 **TO THEIR TEN-YEAR AVERAGE?**

14 A. The M/B ratio of the combined proxy group (*i.e.*, all companies used by all witnesses) is
15 currently close to its ten-year average of approximately 1.97 times.

¹⁵ Representing a market-to-book ratio of 198.27%.

Chart 1: M/B Ratios Compared with Ten-Year Average¹⁶



The significance of this is that the ten-year average M/B ratio of the combined proxy group has always been greater than 1.0x, which means that DCF model results have consistently understated the investor-required return during that period.

Q. HOW CAN THE INACCURACY OR MIS-SPECIFICATION OF THE DCF MODEL BE QUANTIFIED WHEN THE M/B RATIOS ARE DIFFERENT THAN UNITY?

A. The inaccuracy of the DCF model, when market values diverge from book values, can be measured by first calculating the market value of each proxy company's capital structure, which consists of the market value of the company's common equity (shares outstanding multiplied by price) and the fair value of the company's long-term debt and preferred stock. All of these measures, except for price, are available in each company's SEC Form 10-K.

¹⁶ Source: Bloomberg Financial Services.

1 Second, one must de-leverage the implied cost of common equity based on the DCF.
2 This is accomplished using the Modigliani / Miller equation¹⁷ as illustrated in Schedule
3 DWD-3R and shown below:

$$4 \qquad \qquad \qquad k_u = k_e - (((k_u - i)(1 - t)) D/E) - (k_u - d) P/E \text{ [Equation 1]}$$

5 Where:

6 k_u = Unlevered (i.e., 100% equity) cost of common equity;
7 k_e = Market determined cost of common equity;
8 i = Cost of debt;
9 t = Income tax rate;
10 D = Debt ratio;
11 E = Equity ratio;
12 d = Cost of preferred stock; and
13 P = Preferred equity ratio.

14 Using Mr. Hinton's proxy group-specific data, the equation becomes:

$$15 \qquad k_u = 9.39\% - (((k_u - 4.08\%)(1 - 21\%)) 41.91\% / 57.72\%) - (k_u - 5.90\%) 0.37\% / 57.72\%$$

16 Solving for k_u results in an unlevered cost of common equity of 7.45%.

17 Next, one must re-leverage those costs of common equity by relating them to each
18 proxy group's average book capital structure as shown below:

$$19 \qquad \qquad \qquad k_e = k_u + (((k_u - i)(1 - t)) D/E) + (k_u - d) P/E \text{ [Equation 2]}$$

20 Once again, using average proxy group-specific data, the equation becomes:

$$21 \qquad k_e = 7.45\% + (((7.45\% - 4.08\%)(1 - 21\%)) 50.39\% / 49.17\%) + (7.45\% - 5.90\%) 0.44\% / 49.17\%$$

22 Solving for k_e results in a 10.19% indicated cost of common equity relative to the
23 book capital structure of the proxy group, which is an increase of 80 basis points over Mr.

¹⁷ The Modigliani / Miller theorem is an influential element of economic theory and forms the basis for modern theory on capital structure. See, F. Modigliani and M. Miller, *The Cost of Capital, Corporation Finance and the Theory of Investment*, The American Economic Review, Vol. 48, No. 3, (June 1958), at 261-297.

1 Hinton's average indicated DCF result of 9.39%. Schedule DWD-3R also shows that for
2 Mr. O'Donnell's proxy group, solving for ke results in a 9.72% indicated cost of common
3 equity relative to the book capital structure of his proxy group, an increase of 72 basis
4 points over his average indicated DCF result of 9.00%

5 **Q. ARE YOU ADVOCATING A SPECIFIC ADJUSTMENT TO THE DCF RESULTS**
6 **TO CORRECT FOR ITS MIS-SPECIFICATION OF THE INVESTOR-**
7 **REQUIRED RETURN?**

8 A. No. The purpose of this discussion is to demonstrate that, like all cost of common equity
9 models, the DCF has its limitations. The use of multiple cost of common equity models, in
10 conjunction with informed expert judgment, provides a clearer picture of the investor-
11 required ROE.

12 **IV. RESPONSE TO PUBLIC STAFF WITNESS HINTON**

13 **Q. PLEASE SUMMARIZE MR. HINTON'S RECOMMENDATIONS.**

14 A. Mr. Hinton recommends that the Commission establish an overall rate of return of 6.75%,
15 based on a capital structure consisting of 48.80% long-term debt at an embedded cost rate
16 of 4.08%, 0.67% short-term debt at an embedded cost rate of 0.20%, and 50.53% common
17 equity at his recommended cost of common equity of 9.42%.¹⁸ Mr. Hinton's ROE
18 recommendation of 9.42% is based on the average of his three DCF results (ranging from
19 9.10% to 9.73%) and RPM (9.50%) result.¹⁹

¹⁸ Hinton Direct Testimony, at 49.

¹⁹ *Ibid.*, at 38.

1 **Q. DO YOU HAVE ANY GENERAL COMMENTS ON MR. HINTON'S**
2 **RECOMMENDED ROE?**

3 A. Yes. Mr. Hinton relies exclusively on two models, the DCF and the RPM, in his ROE
4 analysis, using the CEM only as a check on his recommended ROE.²⁰ In Docket Nos. W-
5 354, Subs 363, 364, and 365, Mr. Hinton also employed the CAPM, albeit as a check, in
6 his ROE analysis.²¹ As discussed previously, the use of multiple models adds reliability
7 to the estimation of the common equity cost rate.

8 **Q. WHAT ARE THE AREAS OF DISAGREEMENT BETWEEN YOU AND MR.**
9 **HINTON?**

10 A. While both Mr. Hinton and I rely on the DCF model and RPM in our analyses, there are
11 several areas in which we disagree. As will be discussed below, in addition to disagreeing
12 with the weight given to his DCF model results, I also do not agree with (1) his proxy
13 group; (2) his use of growth rates other than projected growth in earnings per share ("EPS")
14 in his application of the DCF model; (3) certain inputs used in his RPM; (4) certain
15 assumptions and inputs in his CEM; and (5) his failure to reflect flotation costs.

16 **A. Proxy Group Selection**

17 **Q. PLEASE DESCRIBE THE SCREENING CRITERIA BY WHICH MR. HINTON**
18 **DEVELOPED HIS PROXY GROUP.**

19 A. Mr. Hinton started with the ten companies in the *Value Line* Natural Gas Company group.
20 From that group Mr. Hinton eliminates NiSource Inc. because it cut its dividend in 2015.
21 Mr. Hinton then identified two additional companies covered by *Value Line* that have

²⁰ Hinton Direct Testimony, at 28.

²¹ Docket Nos. W-354, Subs 363, 364, and 365, Hinton Direct Testimony, at 33-34.

1 natural gas distribution operations, MDU Resources Group, Inc. and National Fuel Gas
2 Company.²²

3 **Q. DO YOU AGREE WITH MR. HINTON'S PROXY GROUP?**

4 A. No. Several of the companies Mr. Hinton decides to include in his proxy groups have
5 operations in other areas than natural gas distribution services. This is illustrated in Table
6 2, below:

7 **Table 2: Percent of 2019 Net Operating Income and Assets Attributable to Gas**
8 **Distribution Operations of Mr. Hinton's Proxy Group**²³

	Net Oper. Income	Total Assets
Atmos Energy Corporation	63.02%	79.32%
Chesapeake Utilities Corporation	38.57%	39.82%
MDU Resources Group, Inc.	14.38%	33.51%
National Fuel Gas Company	20.00%	30.82%
New Jersey Resources Corporation	87.58%	70.07%
Northwest Natural Holding Company	94.73%	95.91%
ONE Gas, Inc.	100.00%	100.00%
South Jersey Industries	98.14%	87.03%
Southwest Gas Holdings, Inc.	79.90%	83.22%
Spire, Inc.	97.06%	67.72%
UGI Corporation	34.57%	25.98%

9 This table shows that the four companies included in Mr. Hinton's proxy group,
10 Chesapeake Utilities, MDU Resources Group, Inc., National Fuel Gas Company and UGI
11 Corp. are not valid comparators to Piedmont at this time and should be eliminated.

²² Hinton Direct Testimony, at 30.

²³ SEC Form 10-K.

1 **B. Discounted Cash Flow Model**

2 **Q. PLEASE SUMMARIZE MR. HINTON'S DCF ANALYSIS.**

3 A. Mr. Hinton calculated his dividend yield by using the *Value Line* estimate of the 12-month
4 projected dividend yield for each of his proxy companies as reported in the *Value Line*
5 Summary and Index for 13 weeks ended July 23, 2021.²⁴ He then added the average
6 expected dividend yield of 3.2% to a range of growth rates from 4.8% to 7.8% to arrive at
7 indicated DCF cost rates from 8.0% to 11.0%.²⁵ From these indicated DCF cost rates, he
8 averaged all of them together for his historical & forecasted growth rate DCF cost rate of
9 9.35%, averaged all of his indicated DCF cost rates using projected measures of growth for
10 his predicted growth rate DCF cost rate of 9.73%, and then averaged all of his indicated
11 DCF cost rates using historical measures of growth for his historical growth rate DCF cost
12 rate of 9.10%.²⁶

13 **Q. PLEASE COMMENT ON MR. HINTON'S GROWTH RATE ANALYSIS IN HIS**
14 **APPLICATION OF THE DCF MODEL.**

15 A. Mr. Hinton states on pages 32-33 of his direct testimony that he employed EPS, dividends
16 per share ("DPS"), and book value of equity per share ("BVPS") growth rates as reported
17 in *Value Line*, both five- and ten-year historical and forecasted, and the five-year projected
18 EPS growth rate as reported by Yahoo! Finance. He includes both historical and forecasted
19 growth rates, "because it is reasonable to expect that investors consider both sets of data in
20 determining their expectations".

²⁴ Hinton Direct Testimony, at 32.

²⁵ *Ibid.*, Hinton Exhibit 6.

²⁶ *Ibid.*, Hinton Exhibit 9.

1 As will be discussed below, there is a significant body of empirical evidence
2 supporting the superiority of analysts' EPS growth rates in a DCF analysis, indicating that
3 analysts' forecasts of earnings remain the best predictor of growth to use in the DCF model.
4 Such ample evidence of the proven reliability and superiority of analysts' forecasts of EPS
5 should not be dismissed by Mr. Hinton.

6 **Q. PLEASE DESCRIBE SOME OF THE EVIDENCE SUPPORTING THE**
7 **RELIABILITY AND SUPERIORITY OF ANALYSTS' EPS GROWTH RATES IN**
8 **A DCF ANALYSIS.**

9 A. As discussed in my Direct Testimony,²⁷ over the long run there can be no growth in DPS
10 without growth in EPS. Security analysts' earnings expectations have a more significant,
11 but not the only, influence on market prices than dividend expectations. Thus, the use of
12 projected EPS growth rates in a DCF analysis provides a better match between investors'
13 market price appreciation expectations and the growth rate component of the DCF, because
14 they have a significant influence on market prices and the appreciation or "growth"
15 experienced by investors.²⁸ This should be evident even to relatively unsophisticated
16 investors by listening to financial news reports on radio, TV, or reading newspapers.

17 In addition, Myron Gordon, the "father" of the standard regulatory version of the
18 DCF model widely utilized throughout the United States in rate base/rate of return
19 regulation, recognized the significance of analysts' forecasts of growth in EPS in a speech

²⁷ D'Ascendis Direct Testimony, at 20.

²⁸ Morin, at 298-303.

1 he gave in March 1990 before the Institute for Quantitative Research and Finance²⁹, stating
2 on page 12:

3 We have seen that earnings and growth estimates by security analysts were
4 found by Malkiel and Cragg to be superior to data obtained from financial
5 statements for the explanation of variation in price among common
6 stocks... estimates by security analysts available from sources such as IBES
7 are far superior to the data available to Malkiel and Cragg.

8 * * *

9 Eq (7) is not as elegant as Eq (4), but it has a good deal more intuitive
10 appeal. It says that investors buy earnings, but what they will pay for a
11 dollar of earnings increases with the extent to which the earnings are
12 reflected in the dividend or in appreciation through growth.

13 Professor Gordon recognized that the total return is largely affected by the terminal
14 price, which is mostly affected by earnings (hence price/earnings (“P/E”) multiples).

15 Studies performed by Cragg and Malkiel³⁰ demonstrate that analysts’ forecasts are
16 superior to historical growth rate extrapolations. While some question the accuracy of
17 analysts’ forecasts of EPS growth, the level of accuracy of those analysts’ forecasts well
18 after the fact does not really matter. What is important is the forecasts reflect widely held
19 expectations influencing investors at the time they make their pricing decisions, and hence,
20 the market prices they pay.

21 In addition, Jeremy J. Siegel also supports the use of security analysts’ EPS growth
22 forecasts when he states:

23 For the equity holder, the source of future cash flows is the earnings of
24 firms. (p. 90)

²⁹ Myron J. Gordon, *The Pricing of Common Stock*, Presented before the Spring 1990 Seminar, March 27, 1990 of the Institute for Quantitative Research in Finance, Palm Beach, FL.

³⁰ John G. Cragg and Burton G. Malkiel, *Expectations and the Structure of Share Prices* (University of Chicago Press, 1982) Chapter 4.

- 1 * * *
- 2 Some people argue that shareholders most value stocks' cash dividends.
3 But this is not necessarily true. (p. 91)
- 4 * * *
- 5 Since the price of a stock depends primarily on the present discounted value
6 of all expected future dividends, it appears that dividend policy is crucial to
7 determining the value of the stock. However, this is not generally true. (p.
8 92)
- 9 * * *
- 10 Since stock prices are the present value of future dividends, it would seem
11 natural to assume that economic growth would be an important factor
12 influencing future dividends and hence stock prices. However, this is not
13 necessarily so. The determinants of stock prices are earnings and dividends
14 on a per-share basis. Although economic growth may influence aggregate
15 earnings and dividends favorably, economic growth does not necessarily
16 increase the growth of per-share earnings or dividends. It is earnings per
17 share (EPS) that is important to Wall Street because per-share data, not
18 aggregate earnings or dividends, are the basis of investor returns. (italics in
19 original) (pp. 93-94)³¹
- 20 **Q. HAVE YOU CONSIDERED WHETHER ANALYSTS' EPS GROWTH RATE**
21 **PROJECTIONS ARE CONSISTENT WITH MANAGEMENT GUIDANCE?**
- 22 A. Yes, I have. Based on data from Company investor presentations, ten of twelve of the
23 combined proxy group companies currently issue long-term earnings growth guidance.
24 Looking at the sources of growth rates used by Mr. Hinton and Mr. O'Donnell, of the 36
25 growth rate estimates for companies that also issue earnings guidance, only seven exceeded
26 the upper bound of management guidance. On the other hand, eight were below the

³¹ Jeremy J. Siegel, Stocks for the Long Run – The Definitive Guide to Financial Market Returns and Long-Term Investment Strategies, McGraw-Hill 2002, pp. 90-94.

1 guidance range; the remaining observations were within the range. Put another way, the
2 majority of analysts' projections were within or below management guidance.

3 **Table 3: EPS Growth Rates and Management Guidance**

Company		Guidance Range ³²		Projected EPS Growth Rate ³³			
		Lower	Upper	Yahoo!	Value Line	CFRA	Schwab
Atmos Energy	ATO	6.00	8.00	7.20	7.00	8.00	7.20
Chesapeake Utilities	CPK	7.75	9.50	4.70	8.50	3.60	-
MDU Resources Group Inc.	MDU	5.00	8.00	7.20	10.50	-	-
National Fuel Gas Company	NFG	-	-	8.50	19.00	-	-
New Jersey Resources	NJR	6.00	10.00	6.00	2.00	8.00	6.00
NiSource Inc	NI	7.00	9.00	-	9.50	5.00	3.50
Northwest Natural	NWN	3.00	5.00	3.80	5.50	4.00	3.80
ONE Gas Inc	OGS	5.00	7.00	5.00	6.50	5.00	5.00
South Jersey Ind	SJI	5.00	8.00	4.80	11.50	6.00	4.80
Southwest Gas	SWX	-	-	4.00	9.00	6.00	4.00
Spire Inc	SR	5.00	7.00	7.30	10.00	4.00	7.30
UGI Corp	UGI	6.00	10.00	7.70	6.00	8.00	7.70

4 I understand twelve companies constitute a relatively small sample for such an
5 analysis. Nonetheless, the consistency between management guidance and analysts'
6 projections suggests analysts' projected EPS growth rates are proper inputs to the DCF
7 model.

³² Source: Company investor presentations and Annual Reports.

³³ Source: Hinton Exhibit 6, Exhibit KWO-2.

1 **Q. IS THERE EMPIRICAL EVIDENCE THAT INVESTORS WOULD DISREGARD**
2 **ANALYST ESTIMATES IN EPS GROWTH?**

3 A. No, there is not. The article, “Do Analyst Conflicts Matter? Evidence from Stock
4 Recommendations,” examines whether conflicts of interest with investment banking [IB]
5 and brokerage businesses induced sell-side analysts to issue optimistic stock
6 recommendations and whether investors were misled by such biases. The authors
7 conclude, “Overall, our findings do not support the view that conflicted analysts are able
8 to systematically mislead investors with optimistic stock recommendations.”

9 Agrawal and Chen further state:

10 Overall, our empirical findings suggest that while analysts do respond to IB
11 and brokerage conflicts by inflating their stock recommendations, the
12 market discounts these recommendations after taking analysts’ conflicts
13 into account. These findings are reminiscent of the story of the nail soup
14 told by Brealey and Myers (1991), except that here analysts (rather than
15 accountants) are the ones who put the nail in the soup and investors (rather
16 than analysts) are the ones to take it out. Our finding that the market is not
17 fooled by biases stemming from conflicts of interest echoes similar findings
18 in the literature on conflicts of interest in universal banking (for example,
19 Kroszner and Rajan, 1994, 1997; Gompers and Lerner 1999) and on bias in
20 the financial media (for examples, Bhattacharya et al. forthcoming; Reuter
21 and Zitzewitz 2006). Finally, while we cannot rule out the possibility that
22 some investors may have been naïve, our findings do not support the notion
23 that the marginal investor was systematically misled over the last decade by
24 analysts’ recommendations.³⁴

25 Finally, while Easton and Sommers’ article, “Effect of Analysts’ Optimism on
26 Estimates of the Expected Rate of Return Implied by Earnings Forecasts” does state that
27 on average, the difference between the estimate of the expected rate of return based on
28 analysts’ earnings forecasts and the estimates based on current earnings realizations is 2.84

³⁴ Anup Agrawal and Mark A. Chen, *Do Analysts’ Conflicts Matter? Evidence from Stock Recommendations*, *Journal of Law and Economics*, August 2008, Vol. 51.

1 percent, they also state that analysts' accuracy³⁵ and optimism³⁶ in the implied estimates of
2 the expected rate of return differs with firm size:

3 ...the mean scaled absolute forecast error, a measure of the accuracy of the
4 forecasts, declines monotonically from 0.102 for the decile of smallest firms
5 to 0.012 for the decile of largest firms. Similarly, the median absolute scaled
6 forecast error declines monotonically from 0.042 to 0.006.

7 Analysts' optimism, measured as the mean (median) scaled forecast error,
8 declines monotonically from -0.075 (-0.023) for the decile of the smallest
9 firms to -0.005 (-0.002) for the decile of the largest firms.³⁷

10 In plain language, as firm size increases, analyst accuracy increases and analyst
11 optimism diminishes. Since the combined proxy group consists of large and mid-cap
12 companies, analyst accuracy should not be a concern.

13 In view of the above, given the overwhelming academic and empirical support
14 regarding the superiority of security analysts' EPS growth rate forecasts, such EPS growth
15 rate projections should have been relied on by Mr. Hinton in his DCF analysis.

16 **Q. IN REVIEWING THE FINANCIAL LITERATURE, DID YOU DISCOVER ANY**
17 **PUBLICATIONS THAT SUPPORTED THE USE OF PROJECTED DPS OR BVPS**
18 **GROWTH RATES FOR USE IN A DCF MODEL?**

19 A. No, I did not.

20 **Q. LIKEWISE, ARE YOU AWARE OF ANY SOURCES OF DATA WHICH**
21 **PROVIDE PROJECTED DPS OR BVPS GROWTH RATES TO INVESTORS?**

22 A. *Value Line* is the only widespread, readily available source of which I am aware that

³⁵ As measured by the mean (median) absolute forecast error.

³⁶ As measured by the mean (median) forecast error.

³⁷ Peter D. Easton and Gregory A. Sommers, *Effect of Analysts' Optimism on Estimates of the Expected Rate of Return Implied by Earnings Forecasts*, *Journal of Accounting Research*, Vol. 45 No. 5 (December 2007), at 1007.

1 publishes projected DPS and BVPS growth rates. If investors indeed valued projected DPS
2 and BVPS growth rates, there would be a market for those data. As they are not relied on
3 by investors to determine their required returns on investments, there is not. Conversely,
4 projected EPS growth rates are widely available to investors.

5 **Q. WHAT WOULD MR. HINTON'S DCF RESULT BE HAD HE ONLY RELIED ON**
6 **EPS GROWTH FORECASTS?**

7 A. As shown on Schedule DWD-4R, the mean DCF derived cost rate based on EPS growth
8 forecasts is 10.1%. This result should be viewed with caution, however, as the DCF model
9 tends to mis-specify the investor-required return, as previously discussed.

10 **C. Application of the Risk Premium Model**

11 **Q. PLEASE SUMMARIZE MR. HINTON'S RPM.**

12 A. Mr. Hinton's RPM estimates the relationship between average allowed equity returns for
13 natural gas utility companies published by Regulatory Research Associates, Inc. ("RRA")
14 and annual average Moody's Investor Service ("Moody's") A-rated utility bond yields.
15 Using data from the years 2007 through 2021, Mr. Hinton conducts a regression analysis,
16 which he then combines with recent monthly yields on Moody's A-rated public utility
17 bonds, to develop his risk premium estimate of 5.29% and a corresponding ROE of 9.50%.

18 **Q. DO YOU HAVE ANY CONCERNS REGARDING MR. HINTON'S APPLICATION**
19 **OF THE RPM?**

20 A. Yes, I do. While I agree with Mr. Hinton's methodology (*i.e.*, regression analysis of
21 historical equity risk premiums), I disagree with his exclusive use of current interest rates
22 and his use of annual average return data instead of individual rate case data.

1 **Q. DO YOU BELIEVE THAT MR. HINTON SHOULD RELY EXCLUSIVELY ON**
2 **CURRENT INTEREST RATES IN THE APPLICATION OF HIS RPM?**

3 A. No. Because both cost of capital and ratemaking are prospective in nature, Mr. Hinton
4 should also consider using projected interest rates in his RPM. The cost of capital,
5 including the cost rate of common equity, is expectational in that it reflects investors'
6 expectations of future capital markets, including an expectation of interest rate levels, as
7 well as future risks. Ratemaking is prospective in that the rates set in this proceeding will
8 be in effect for a period in the future.

9 Even though Mr. Hinton relies, in part, on projected growth rates in his DCF
10 analyses, noting that growth in the DCF is expected,³⁸ he fails to apply that logic to
11 selecting an appropriate interest rate in his RPM.

12 **Q. MR. HINTON STATES THAT HE DOES NOT BELIEVE INTEREST RATE**
13 **FORECASTS ARE RELIABLE IN DETERMINING THE ROE BECAUSE THEY**
14 **DO NOT MATERIALIZE AS EXPECTED. PLEASE RESPOND.**

15 A. Whether Mr. Hinton believes those forecasts will prove to be accurate is irrelevant to
16 estimating the market-required cost of common equity. Published industry forecasts, such
17 as *Blue Chip Financial Forecasts*' ("*Blue Chip*") consensus interest rate projections,
18 reflect industry expectations. Additionally, investors' expectations are not improper inputs
19 to cost of common equity estimation models simply because prior projections were not
20 proven correct in hindsight. As the Federal Energy Regulatory Commission ("FERC")
21 noted in Opinion No. 531, "the cost of common equity to a regulated enterprise depends

³⁸ Hinton Direct Testimony, at 29.

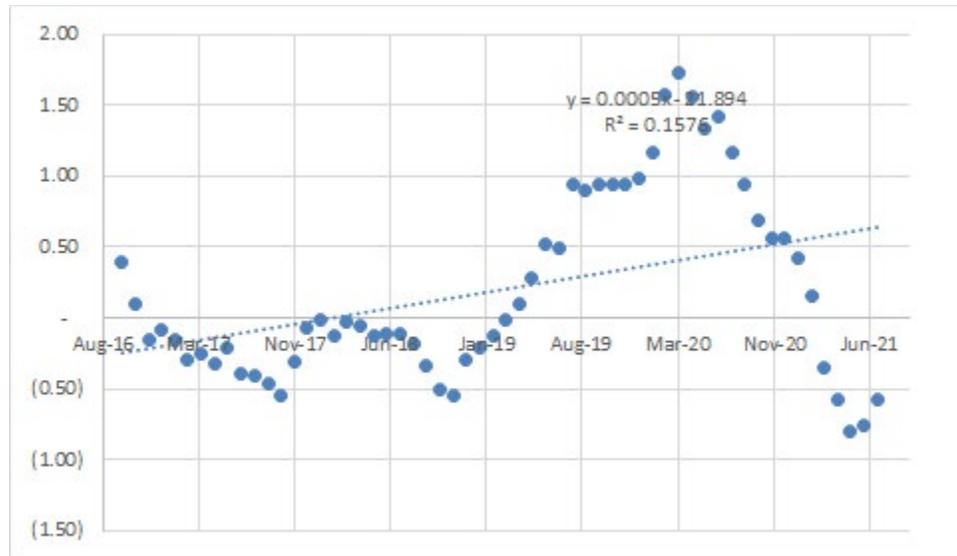
1 upon what the market expects, not upon what ultimately happens.”³⁹ Because our analyses
2 are predicated on market expectations, the expected increase in bond yields is a measurable,
3 observable, and relevant data point that should be reflected in Mr. Hinton’s analysis.
4 Therefore, Mr. Hinton should have used forecasted interest rates in his analysis.

5 **Q. ARE CURRENT INTEREST RATES ACCURATE PREDICTORS OF FUTURE**
6 **INTEREST RATES?**

7 A. No, they are not. Current interest rates are not proven to be a better predictor of future
8 interest rates. In Chart 2 (below) I compare actual monthly yields to the three-month yield
9 average from 12 months prior. This chart demonstrates that current Treasury yields have
10 not been accurate predictors of future yields. Those results make intuitive sense. With
11 the recent market dislocation, Treasury yields have decreased significantly and have been
12 volatile. As interest rates decreased, historical Treasury yields over-projected current
13 yields. As interest rates subsequently increased, the opposite was true.

³⁹ Opinion No. 531, 150 FERC ¶ 61,165 at P 88.

1 **Chart 2: Forecast Error of Three-Month Average Treasury Yields⁴⁰**



2
 3 **Q. DO YOU AGREE WITH MR. HINTON'S USE OF ANNUAL AUTHORIZED**
 4 **RETURNS AND INTEREST RATE DATA IN HIS RPM?**

5 A. No, I do not. Instead of using yearly average authorized returns and Moody's A-rated
 6 public utility bond yields, it is preferable to use the authorized returns and Moody's A-
 7 rated public utility bond yields on a case-by-case basis. One reason why one should use
 8 individual cases instead of an annual average is that some years have more rate case
 9 decisions than others, and years with less rate case decisions will garner unnecessary
 10 weight. Another reason to use individual cases over an annual average is that interest rates
 11 and market conditions change during the year (*e.g.* the beginning and end of 2008), if one
 12 uses annual average authorized returns and annual average interest rates, the fluctuation
 13 between the interest rates and equity risk premiums during the year are lost.

⁴⁰

Source: Federal Reserve Schedule H.15.

1 Q. WHAT IS THE RESULT OF THE REGRESSION ANALYSIS AFTER
2 REFLECTING A PROSPECTIVE MOODY'S A-RATED PUBLIC UTILITY
3 BOND YIELD AND USING INDIVIDUAL RATE CASE DATA IN PLACE OF
4 ANNUAL RATE CASE DATA?

5 A. As shown on page 1 of Schedule DWD-5R, the analysis is based on a regression of 188
6 rate cases for natural gas utility companies from January 5, 2007 through July 30, 2021. It
7 shows the implicit equity risk premium relative to the yields on Moody's A-rated public
8 utility bonds immediately prior to the issuance of each regulatory decision.⁴¹

9 I determined the appropriate prospective Moody's A-rated public utility yield by
10 relying on a consensus forecast of about 50 economists of the expected yield on Moody's
11 Aaa-rated corporate bonds for the six calendar quarters ending with the third calendar
12 quarter of 2022, and *Blue Chip's* long-term projections for 2023 to 2027, and 2028 to
13 2032.⁴² As described on page 12 of Schedule DWD-1R, the average expected yield on
14 Moody's Aaa-rated corporate bonds is 3.48%. I then derived an expected yield on
15 Moody's A2-rated public utility bonds, by making an upward adjustment of 0.38%, which
16 represents a recent spread between Moody's Aaa-rated corporate bonds and Moody's A2-
17 rated public utility bonds.⁴³ Adding the recent 0.38% spread to the expected Moody's Aaa-
18 rated corporate bond yield of 3.48% results in an expected Moody's A2-rated public utility
19 bond yield of 3.86%.

⁴¹ If the Order was in the first half of the month, the Moody's A-rated utility bond from two months prior would be used. If the Order was in the second half of the month, the Moody's A-rated public utility bond from the last prior month was used.

⁴² *Blue Chip Financial Forecasts*, August 3, 2021, at 2, June 1, 2021, at 14.

⁴³ As explained on page 12 of Schedule DWD-1R.

1 I then used the regression results to estimate the equity risk premium applicable to
2 the projected yield on Moody's A2-rated public utility bonds of 3.86%. Given the expected
3 Moody's A-rated utility bond yield of 3.86%, the indicated equity risk premium is 5.86%,
4 which results in an indicated ROE of 9.72%, as shown on Schedule DWD-5R. Also shown
5 on Schedule DWD-5R, using Mr. Hinton's current bond yield, the indicated ROE using
6 the RPM is 9.60%.

7 **D. Application of the Comparable Earnings Model**

8 **Q. PLEASE DESCRIBE MR. HINTON'S CEM ANALYSIS**

9 A. Mr. Hinton examined five years of historical earned returns on equity for his natural gas
10 proxy groups and arrived at a 10.0% average and 9.5% median indicated equity return.⁴⁴
11 Mr. Hinton did not rely on the results of this data for his recommended ROE, but only as a
12 check on his DCF and RPM.⁴⁵ I would note that his average ROE using his CEM is in
13 excess of 50 basis points over his recommended ROE of 9.42%.

14 **Q. DO YOU HAVE ANY COMMENT ON THE PROXY GROUPS MR. HINTON**
15 **USED IN HIS CEM ANALYSIS?**

16 A. Yes. Mr. Hinton used his natural gas proxy group in his CEM analysis.⁴⁶ Any proxy group
17 selected for a CEM analysis should be broad-based in order to obviate company-specific
18 aberrations and should exclude utilities to avoid circularity. Since the achieved returns on
19 book common equity of utilities is a function of the regulatory process itself, they are
20 substantially influenced by regulatory return on common equity awards. Therefore, the

⁴⁴ Hinton Direct Testimony, at Public Staff Hinton Exhibit 8.

⁴⁵ *Ibid.*, at 38.

⁴⁶ *Ibid.*

1 achieved ROEs of utilities are not representative of the returns that could be earned in a
2 truly competitive market. Hence, Mr. Hinton's use of his gas proxy group utilities in his
3 CEM analysis is a circular exercise. Additionally, as previously discussed, the cost of
4 capital and ratemaking are expectational in nature and, as such, need to use projected data.
5 As shown in Schedule DWD-6R, average and median projected earned returns for Mr.
6 Hinton's proxy group are 10.35% and 10.50%, respectively.

7 **E. Conclusion of Hinton Adjusted Results**

8 **Q. WHAT ARE THE RESULTS OF MR. HINTON'S ROE MODELS AFTER**
9 **MAKING THE ADJUSTMENTS DESCRIBED TO HIS DCF, RPM, AND CEM?**

10 A. As shown in Table 4, below, Mr. Hinton's adjusted results are as follows:

11 **Table 4: Mr. Hinton's Adjusted ROE Model Results**

Model	Range	Midpoint
Discounted Cash Flow	10.10%	10.10%
Risk Premium Model	9.60% - 9.72%	9.66%
Comparable Earnings Model	10.35% - 10.50%	10.43%
Average	9.60% - 10.50%	10.06%

12 Using the midpoints of Mr. Hinton's adjusted RPM and CEM, the average of his adjusted
13 results is 10.06%, which does not reflect flotation costs.

14 **Q. DOES MR. HINTON INCLUDE FLOTATION COSTS IN HIS RECOMMENDED**
15 **ROE?**

16 A. It does not appear so. As stated in my Direct Testimony, flotation costs should be included
17 in an ROE recommendation because they are not reflected in any of the ROE model

1 results.⁴⁷ Adding my flotation cost adjustment of 0.11% to Mr. Hinton's adjusted average
2 model result of 10.06% results in a Company-specific ROE of 10.17%, which is within my
3 recommended range of ROEs and similar to my ultimate ROE recommendation of 10.25%.

4 **Q. MR. HINTON JUSTIFIES HIS RECOMMENDED ROE OF 9.42% BY**
5 **REVIEWING THE INTEREST COVERAGE RATIO AND CONFIRMING THAT**
6 **HIS ROE WOULD ALLOW THE COMPANY A SINGLE "A" RATING.⁴⁸ DOES**
7 **ONE MEASURE OF FINANCIAL RISK SUCH AS PRE-TAX INTEREST**
8 **COVERAGE INDICATE A SPECIFIC CREDIT RATING?**

9 A. No. While I do not take issue with Mr. Hinton's inputs or calculations in determining
10 Piedmont's pre-tax interest coverage ratio, I note that the ratios of pre-tax coverage needed
11 to qualify for a single "A" rating range from 3.0 to 6.0. As can be seen in Schedule DWD-
12 7R, ROE's ranging from as low as 5.76% to as high as 14.55% all allow Piedmont to
13 qualify for a single "A" rating based on its pre-tax coverage ratio. Clearly a significantly
14 large range of results indicates that simply relying on a single measure, out of a multitude
15 of measures reviewed by the bond/credit ratings agencies, to determine a company's bond
16 rating is without significance.

⁴⁷ D'Ascendis Direct Testimony, at 50-51.

⁴⁸ Hinton Direct Testimony, at 39.

1 **F. Consideration of Mechanisms in Place for Piedmont**

2 **Q. MR. HINTON DISCUSSES THE COMPANY'S INTEGRITY MANAGEMENT**
3 **RIDER AND MARGIN DECOUPLING TRACKER MECHANISMS THAT HE**
4 **CLAIMS IMPACT RISK FOR PIEDMONT.⁴⁹ IS HIS CLAIM VALID?**

5 A. No. The cost of capital is a comparative exercise, so if the mechanism is common
6 throughout the companies that one bases their analyses on, the comparative risk is zero,
7 because any impact of the perceived reduced risk of the mechanism(s) by investors would
8 be reflected in the market data of the proxy group. To that point, as shown on Schedule
9 DWD-8R, ten of the eleven companies in Mr. Hinton's proxy group have a capital
10 investment rider and ten of his eleven proxy group companies have a decoupling
11 mechanism in at least one of their jurisdictions.

12 **Q. DOES MR. HINTON DISCUSS THE COMMONALITY OF DECOUPLING**
13 **MECHANISMS FOR GAS UTILITIES IN OTHER CASES?**

14 A. Yes, he does. In Docket No. W-2018, Sub 526 concerning Aqua North Carolina, Inc., Mr.
15 Hinton states:

16 In North Carolina, Piedmont Natural Gas Company, Inc.'s Consumption
17 Utilization Tracker program was first approved in Docket G-9, Sub 499,
18 and later renamed Margin Decoupling Tracker (MDT), and Public Service
19 of North Carolina, Inc. has a similar program which has worked to help
20 stabilize its earnings.

21 However, in those rate proceedings where the trackers were approved, there
22 was no explicit recognition of the decrease in the Company's business risk
23 in those proceedings or subsequent proceedings, indicating that any direct
24 benefit to customers was lost. This was, in part, due to the fact that similar
25 trackers were in operation with various other LDCs, and an argument could

⁴⁹ *Ibid.*, at 40.

1 be made the risk reduction was somewhat captured in the market prices of
2 the Company's common stock.⁵⁰

3 This statement echoes my response in the previous question. Our agreement on the
4 issue should lead the Commission to the conclusion that any risk reduction due to
5 Piedmont's mechanisms are already reflected in the market data of the proxy group.

6 **G. Response to Staff Witness Hinton's Criticisms of Company Analysis**

7 **Q. DOES MR. HINTON HAVE ANY CRITICISMS OF YOUR DIRECT**
8 **TESTIMONY?**

9 A. Yes. Mr. Hinton has concerns regarding my exclusive use of projected EPS growth rates
10 in my DCF model analysis and that one of the expected returns used in my CAPM
11 calculation was "unsustainable".⁵¹ I have already discussed the superiority of using
12 projected EPS growth rates in the DCF model and will not repeat that discussion here.

13 **Q. MR. HINTON STATES THAT YOUR EXPECTED MARKET RETURN**
14 **ESTIMATE DERIVED FROM BLOOMBERG FINANCIAL SERVICES**
15 **("BLOOMBERG") INFLATES YOUR MARKET RISK PREMIUM. PLEASE**
16 **RESPOND.**

17 A. I disagree with Mr. Hinton's statement. The implied expected market returns using
18 Bloomberg data is only one out of six measures. The average implied market return for
19 my Direct (12.73%) and Rebuttal (12.62%) Testimonies represent the approximately 48th
20 percentile of actual returns observed from 1926 to 2020, as shown on Exhibit DWD-9R.
21 As discussed previously, multiple measures gives greater insight into the investor-required

⁵⁰ Docket No. W-218, Sub 526, Hinton Direct Testimony, at 32-33.

⁵¹ Hinton Direct Testimony, at 48.

1 return than a limited number of measures. The average implied market return for my Direct
2 and Rebuttal Testimonies of 12.73% and 12.62%, respectively, are comparable to the
3 average historical market return of approximately 12.20%.

4 **Q. DOES MR. HINTON RELY ON ANY EXTERNAL SOURCES TO SUPPORT HIS**
5 **ASSERTION THAT YOUR BLOOMBERG EXPECTED MARKET RETURN IS**
6 **UNSUSTAINABLE?**

7 Yes, he does. Mr. Hinton refers to a Morningstar survey of professional investment
8 advisors that expect “lower future market returns on equity of 5% to 8%.”⁵² My review of
9 that survey revealed that many of the estimates are “more immediate term than they are
10 long”.⁵³ As stated in my Direct Testimony, the holding period returns used in calculating
11 equity risk premiums for estimating the ROE should be as long as possible to be
12 commensurate with an investment in a company expected to operate in perpetuity.⁵⁴ As a
13 result, I do not agree that the expected returns by investment houses referred to by Mr.
14 Hinton are applicable in estimating the Company’s ROE.

15 **Q. WHAT IS THE RELATIONSHIP BETWEEN EXPECTED RETURNS BY**
16 **INVESTMENT FUNDS AND REQUIRED/ALLOWED ROE?**

17 A. Expected returns from pension funds or investment houses are not the same as the ROE
18 (otherwise known as required returns). Expected returns from pension funds or investment
19 houses are expecting what the particular utility’s earned return will be. Because utilities
20 generally do not earn their authorized returns, investor-expected returns are less than

⁵² *Ibid.*, at 48-49.

⁵³ Public Staff Hinton Exhibit 10, at 2.

⁵⁴ D’Ascendis Direct Testimony at 27.

1 investor-required returns. For example, a benefit plan asset manager will match the
2 **expected returns** available from various asset classes to the expected liabilities that must
3 be funded. An investor seeking to maximize their risk-adjusted return will only invest in
4 a security if the expected return is equal to or greater than the **required return**. Because
5 expected returns may or may not equal required returns, we should not assume pension
6 funding assumptions (that is, expected returns) may be viewed as a measure of investors'
7 required returns.

8 Benefit plan managers develop asset allocation and investment decisions based on
9 expected risks and returns for various asset classes and are subject to the investment
10 objective or expected timing and nature of the liabilities being funded by those investments.
11 In the U.S., they must consider: (1) the diversification of the portfolio; (2) the liquidity and
12 current return of the portfolio relative to the expected cash flow requirements under the
13 plan; (3) the portfolio's projected return relative to the plan's funding objective; and (4)
14 the return expected on alternative investments with similar risks.⁵⁵ Pension asset
15 managers, therefore, are concerned with investing funds at an expected return to meet
16 expected liabilities.

17 Widely used finance texts recommend the use of multiple models in estimating the
18 cost of equity, in particular the DCF, CAPM, and RPM. To determine whether the use of
19 broad market expected returns for the purposes of pension asset management also is an
20 approach recommended by finance texts, I reviewed articles published in financial journals,
21 as well as additional texts that speak to the methods used by analysts to estimate the cost

⁵⁵ 29 CFR 2509.908-1, Interpretive Bulletin Relating to Investing in Economically Targeted Investments, October 17, 2008.

1 of equity. An article published in Financial Analysts Journal surveyed financial analysts
2 to determine the analytical techniques that are used in practice.⁵⁶ Regarding stock price
3 valuation and cost of capital estimation, the author asked respondents to comment only on
4 the DCF, CAPM, and Economic Value-Added models. Nowhere in that article did the
5 author consider asking whether surveys of expected returns or pension fund assumptions
6 are relevant to the determination of the ROE, the subject of this proceeding.

7 Additionally, I note that the 8% to 10% expected long-term market returns
8 referenced on page 2 of Mr. Hinton's Exhibit 10 can be assumed to be geometric mean
9 returns, as geometric means are generally used by investment houses to discuss past
10 performances. As shown on page 6-17 of Duff & Phelps 2021 SBBI® Yearbook Stocks,
11 Bonds, Bills and Inflation ("SBBI-2021"), the long-term geometric mean return of
12 approximately 10.00% converts to an approximate 12.00% long-term arithmetic mean
13 return.

14 **V. RESPONSE TO CUCA WITNESS O'DONNELL**

15 **Q. PLEASE PROVIDE A SUMMARY OF MR. O'DONNELL'S TESTIMONY AND**
16 **RECOMMENDATION.**

17 A. Mr. O'Donnell recommends an ROE of 9.00%,⁵⁷ which is based on the upper end of his
18 DCF model results, which range from 7.50% to 9.50%.⁵⁸ Mr. O'Donnell also calculates a
19 CEM and CAPM as checks on his DCF model results, which produced ROE estimates

⁵⁶ Stanley B. Block, *A Study of Financial Analysts: Practice and Theory*, Financial Analysts Journal, July/August, 1999.

⁵⁷ O'Donnell Direct Testimony, at 4.

⁵⁸ *Ibid.*, at 69.

1 ranging from 9.00% to 10.00% for his CEM and 6.00% to 8.00% for his CAPM.⁵⁹ Mr.
2 O'Donnell exclusively relies on his DCF model results based on his opinion that the DCF
3 model is superior to all other ROE models.⁶⁰

4 **Q. PLEASE SUMMARIZE THE REMAINING AREAS IN WHICH YOU DISAGREE**
5 **WITH MR. O'DONNELL'S ROE ANALYSES, METHODS, AND**
6 **CONCLUSIONS?**

7 A. My remaining areas of disagreement with Mr. O'Donnell's analysis are as follows: (1) the
8 interpretation of capital market conditions; (2) his proxy group selection; (3) his
9 consideration of growth rates other than the expected EPS growth rate for his DCF model
10 analysis; (4) his use and miscalculation of the sustainable growth rate; (5) the applicability
11 of the CEM; (6) his application of the CAPM; and (7) his failure to reflect flotation costs.

12 **A. Capital Market Conditions**

13 **Q. DO YOU AGREE WITH MR. O'DONNELL THAT UTILITIES ARE "A SAFE**
14 **HARBOR" DURING PERIODS OF MARKET UNCERTAINTY?⁶¹**

15 A. No, I do not. I have studied the relative performance and annualized volatilities of groups
16 of utilities and market indices to gauge whether utilities weathered the COVID-19
17 pandemic better than the overall market. As shown on Schedule DWD-10R and Table 5,
18 below, from February 1, 2020 to July 30, 2021, contrary to Mr. O'Donnell's opinion, the
19 combined proxy group (including all companies considered by the witnesses in this
20 proceeding) and other groups of utilities were more volatile (i.e. riskier) than the market

⁵⁹ *Ibid.*

⁶⁰ *Ibid.*, at 41.

⁶¹ *Ibid.*, at 9.

1 indices and underperformed both the Dow Jones Industrial Average and Standard & Poor's
2 ("S&P") 500.

3 **Table 5: Annualized Volatility and Returns of Utility Groups and Market Indices**
4 **February 2020 – July 2021⁶²**

	Proxy Group	Dow Jones Utility Average (DJU)	Utilities Select SPDR (XLU)	Dow Jones Industrial Average	S&P 500
Price Change	-6.44%	-3.54%	-4.67%	23.01%	35.28%
Annualized Volatility	44.80%	33.12%	33.13%	30.95%	29.28%

5 Table 5, above, shows that while markets in general have recovered from the market
6 downturn, utilities have not.

7 **Q. MR. O'DONNELL REFERS TO SEVERAL RECENT REPORTS BY S&P**
8 **CONCLUDING THAT THE CURRENT OUTLOOK FOR REGULATED**
9 **UTILITIES IS STABLE.⁶³ DO YOU AGREE?**

10 **A.** No, I do not. Although Mr. O'Donnell's review of recent articles from S&P seems to
11 suggest that the outlook for regulated utilities is stable, a closer look reveals that not to be
12 the case. For example, in January of this year S&P noted:

13 Many rate case filings were delayed, rate case orders often took longer than
14 expected, and many orders were below expectations.

15 ***

16 During the year, the utility industry performed poorly from a credit quality
17 perspective. The negative outlooks or CreditWatch negative listings
18 doubled and downgrades outpaced upgrades for the first time in a decade

⁶² Source: S&P Global Market Intelligence.

⁶³ O'Donnell Direct Testimony, at 11-12.

1 by about 7 to 1.⁶⁴

2 Clearly, the outlook for regulated utilities is less stable than Mr. O'Donnell assumes.

3 **Q. WHAT IS YOUR RESPONSE TO MR. O'DONNELL'S REVIEW OF**
4 **UNEMPLOYMENT RATES?**

5 A. Regarding the unemployment rate, Mr. O'Donnell's cited unemployment rate of 6.77% in
6 Q4 2020 dropping to 5.93% in Q2 2021 is accurate, but he is comparing that unemployment
7 rate with the pre-pandemic unemployment rate of 3.67%, which was the lowest
8 unemployment rate for 50 years.⁶⁵ The average American unemployment rate is 5.80%
9 over the period 1948-present,⁶⁶ which is comparable to the unemployment rate of 5.93%
10 in Q2 2021.

11 **Q. MR. O'DONNELL DISCUSSES INFLATION STATING THAT IT "IS TOO**
12 **EARLY TO PREDICT WHETHER THE UNITED STATES ECONOMY WILL**
13 **SERIOUSLY SUFFER PERMANENTLY IN THE LONG TERM DUE TO RISING**
14 **PRICES."**⁶⁷ **PLEASE RESPOND.**

15 A. On August 27, 2020, Federal Chairman Powell released a statement noting that the Federal
16 Open Market Committee will adopt an approach towards inflation that "could be viewed
17 as a flexible form of average inflation targeting"; meaning that following periods in which

⁶⁴ S&P Global Ratings, RatingsDirect, *North American Regulated Utilities' Negative Outlook Could See Modest Improvement*, January 20, 2021, at 1.

⁶⁵ Source: Bureau of Labor Statistics.

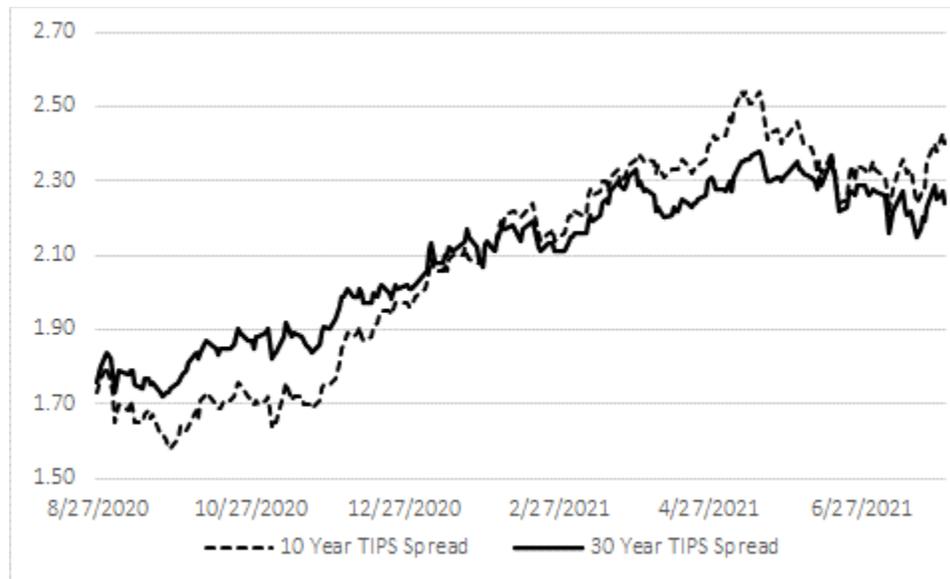
⁶⁶ Source: Bureau of Labor Statistics dating back to January 1948.

⁶⁷ O'Donnell Direct Testimony, at 18-19.

1 inflation has run below 2.00%, “appropriate monetary policy will likely aim to achieve
 2 inflation moderately above 2 percent for some time.”⁶⁸

3 Since Mr. Powell’s remarks, the breakeven inflation rate, represented as the ten-
 4 year and 30-year Treasury Inflation-Protected Securities spread, has increased from 1.73%
 5 and 1.76%, respectively, to 2.33% and 2.19% respectively, as of July 30, 2021. Further,
 6 as shown in Chart 3 below, breakeven inflation has trended upward since the Federal
 7 Reserve’s policy change at a relatively consistent pace.

8 **Chart 3: Breakeven Inflation Since August 27, 2020**⁶⁹



9
 10 Further, the Consumer Price Index (“CPI”) June 2021 monthly increase (0.9%) was
 11 the largest monthly increase since June 2008 (1.0%), and the year-over-year increase
 12 (5.4%) was the highest it has been since August 2008 (also 5.4%).⁷⁰ There is little proof

⁶⁸ *New Economic Challenges and the Fed’s Monetary Policy Review*, Remarks by Jerome H. Powell, Chair Board of Governors of the Federal Reserve System, August 27, 2020.

⁶⁹ Source: Federal Reserve (<https://www.federalreserve.gov/datadownload/>)

⁷⁰ U.S. Bureau of Labor Statistics, Economic News Release, Consumer Price Index Summary – June 2021.

1 that the current inflationary environment is indeed transitory (one could only judge the
2 period as transitory after it is concluded) so it should be considered at face value.

3 **Q. IS INFLATION STRONGLY RELATED TO INTEREST RATES?**

4 A. Yes, it is. Generally, when inflation is increasing, central banks will attempt to raise
5 interest rates by reducing bond buying programs or increasing their interbank offered rates
6 in an attempt to keep inflation at target levels (a long-term average of 2.00%, as noted
7 above). Over the period 1947-2020, the relationship between inflation, as measured by the
8 year-over-year change in the CPI and interest rates had a 0.63 correlation coefficient,
9 showing a strong positive relationship, which is statistically significant.

10 **Q. IS THERE A LINK BETWEEN INFLATION AND AUTHORIZED ROES?**

11 A. Yes, there is. Looking at the yearly growth in the CPI and the corresponding authorized
12 ROEs for natural gas utilities, I calculated a correlation of 0.73. In addition, I found the
13 relationship between the two variables to be statistically significant.

14 **B. Proxy Group Selection**

15 **Q. PLEASE DESCRIBE THE SCREENING CRITERIA BY WHICH MR.
16 O'DONNELL DEVELOPED HIS PROXY GROUP.**

17 A. Mr. O'Donnell does not screen for comparability of the *Value Line* gas utility group and
18 includes all ten gas distribution utilities covered by *Value Line* in his proxy group.⁷¹

19 **Q. DO YOU AGREE WITH MR. O'DONNELL'S PROXY GROUP?**

20 A. No. Chesapeake Utilities and UGI Corporation have significant operations in activities
21 other than natural gas distribution services. This is illustrated in Table 6, below:

⁷¹ O'Donnell Direct Testimony, at 23.

Table 6: Percent of 2019 Net Operating Income and Assets Attributable to Gas Distribution Operations of the Combined Proxy Group⁷²

	Net Oper. Income	Total Assets
Atmos Energy Corporation	63.02%	79.32%
Chesapeake Utilities Corporation	38.57%	39.82%
New Jersey Resources Corporation	87.58%	70.07%
NiSource Inc.	75.83%	62.77%
Northwest Natural Holding Company	94.73%	95.91%
ONE Gas, Inc.	100.00%	100.00%
South Jersey Industries	98.14%	87.03%
Southwest Gas Holdings, Inc.	79.90%	83.22%
Spire, Inc.	97.06%	67.72%
UGI Corporation	34.57%	25.98%

This table shows that Chesapeake Utilities and UGI Corp. are not valid comparators to Piedmont at this time and should be eliminated.

Q. HAS MR. O'DONNELL CONSIDERED THE ANALYTICAL RESULTS OF ANY OTHER COMPANIES TO SET HIS RECOMMENDED ROE?

A. Yes. In addition to his proxy group comprised of natural gas utilities, Mr. O'Donnell also estimates his analytical models based on market data for Duke Energy, Piedmont's ultimate parent.

Q. IS IT REASONABLE TO ESTIMATE THE ROE FOR PIEDMONT BASED ON THE ANALYTICAL RESULTS OF DUKE ENERGY?

A. No, it is not. Although Mr. O'Donnell states Duke Energy, "provides the most directly observable link between any company within the comparable proxy group and Piedmont,"

⁷² SEC Form 10-K.

1 there are several issues with that conclusion. First, Piedmont represents only 5% of Duke
2 Energy based on assets. Second, although Duke Energy has natural gas distribution
3 operations, a majority of its operating income and assets are related to its electric
4 operations. In 2020, approximately 87.5% of Duke Energy's operating income came from
5 its electric operations, and approximately 85.1% of its assets were related to its electric
6 operations. It is for that reason that *Value Line* includes Duke Energy in its Electric Utility
7 group. As such, it is inappropriate to assume that Duke Energy faces comparable risk to
8 Piedmont based solely on the fact that Piedmont is a subsidiary of Duke Energy. To that
9 point, none of the witnesses in this proceeding have included electric utilities in their proxy
10 groups. Because Duke Energy fails the comparable risk standard, the results of Mr.
11 O'Donnell's analyses using Duke Energy-specific data should be given no weight.

12 **C. DCF Analysis**

13 **Q. PLEASE SUMMARIZE MR. O'DONNELL'S APPLICATION OF THE**
14 **CONSTANT GROWTH DCF MODEL.**

15 A. Mr. O'Donnell calculates his dividend yield based on the one-week, four-week and 13-
16 week expected dividend yield as provided by *Value Line Summary & Index* for the period
17 April 16, 2021 through July 9, 2021.⁷³ For the growth component of his Constant Growth
18 DCF model, Mr. O'Donnell reviews a number of growth rates, including historical and
19 projected DPS, BVPS, and EPS growth rates as reported by *Value Line*; analysts'
20 consensus EPS growth rate projections from the Center for Financial Research ("CFRA")
21 and Charles Schwab & Co.⁷⁴; and an estimate of the "plowback" growth rate also known

⁷³ O'Donnell Direct Testimony, at 45.

⁷⁴ *Ibid.*, at 49.

1 as the “Sustainable Growth” or “Retention Growth” derived from data provided by *Value*
2 *Line*.⁷⁵ Mr. O’Donnell concludes that his DCF model produces an ROE in the range of
3 7.5% to 9.5%.⁷⁶

4 **Q. DO YOU AGREE WITH MR. O’DONNELL THAT HISTORICAL GROWTH**
5 **RATES, OR DIVIDEND AND BOOK VALUE GROWTH RATES, ARE**
6 **APPROPRIATE MEASURES OF EXPECTED GROWTH FOR THE CONSTANT**
7 **GROWTH DCF MODEL?**⁷⁷

8 A. No, I do not. As discussed in my response to Mr. Hinton, there is a significant body of
9 empirical evidence supporting the superiority of analysts’ EPS growth rates in a DCF
10 analysis, indicating that analysts’ forecasts of EPS remain the best predictor of growth to
11 use in the DCF model.

12 **Q. DO YOU AGREE WITH MR. O’DONNELL’S CONSIDERATION OF**
13 **SUSTAINABLE GROWTH RATES IN HIS CONSTANT GROWTH DCF**
14 **ANALYSIS?**

15 A. No. As Morin explains, there are inherent weaknesses in using sustainable growth rates in
16 the DCF model.⁷⁸ Specifically, Mr. O’Donnell’s methodology is inherently circular
17 because: (1) it relies on an expected ROE on book common equity; (2) that expected ROE
18 on book common equity is then used in a DCF analysis to establish an ROE cost rate related
19 to the market value of the common stock; and (3) that market-related ROE, if authorized

⁷⁵ *Ibid.*

⁷⁶ *Ibid.*, at 55.

⁷⁷ *Ibid.*, at 52-53.

⁷⁸ *Ibid.*, at 306-307.

1 as the allowed ROE in this proceeding, becomes the expected ROE on book common
2 equity.

3 Put simply, the estimated ROEs Mr. O'Donnell used to derive his sustainable
4 growth rate become the regulatory outcome of this proceeding, even as those ROEs are
5 themselves based on regulatory outcomes.

6 **Q. HAVE YOU REVIEWED INDEPENDENT SOURCES FOR DISCUSSION OF THE**
7 **USE OF SUSTAINABLE GROWTH FOR ROE ESTIMATION?**

8 A. Yes. Morin discusses the sustainable growth model and shows that it relies on knowledge
9 of several factors, including:

- 10 • “b”: the fraction of earnings per share retained;
- 11 • “r”: the rate of return on equity (ROE);
- 12 • “s”: the growth rate in common equity due to the sale of stock; and
- 13 • “v”: the fraction of a stock sale that increases existing book value.

14 Specifically, Morin states the following:

15 There are three problems in the practical application of the sustainable
16 growth method. The first is that it may be even more difficult to estimate
17 what b, r, s and v investors have in mind than it is to estimate what g they
18 envisage. It would appear far more economical and expeditious to use
19 available growth forecasts and obtain g directly instead of relying on four
20 individual forecasts of the determinants of such growth. *It seems only*
21 *logical that the measurement and forecasting errors inherent in using four*
22 *different variables to predict growth far exceed the forecasting error*
23 *inherent in the direct forecast of growth itself.*

24 Second, there is a potential element of circularity in estimating g by a
25 forecast of b and ROE for the utility being regulated, since ROE is
26 determined in large part by regulation. To estimate what ROE resides in
27 the minds of investors is equivalent to estimating the market's assessment
28 of the outcome of regulatory hearings. Expected ROE is exactly what
29 regulatory commissions set in determining an allowed rate of return. In
30 other words, the method requires an estimate of return on equity before it

1 can even be implemented. Common sense would dictate the inconsistency
2 of a return on equity recommendation that is different than the expected
3 ROE that the method assumes the utility will earn forever. For example,
4 using an expected return on equity of 11% to determine the growth rate and
5 using the growth rate to recommend a return on equity of 9% is inconsistent.
6 It is not reasonable to assume that this regulatory utility company is
7 expected to earn 11% forever, but recommend a 9% return on equity. The
8 only way this utility can earn 11% is that rates be set by the regulator so that
9 the utility will, in fact, earn 11%....

10 Third, the empirical finance literature discussed earlier demonstrates that
11 the sustainable growth method of determining growth is not as significantly
12 correlated to measures of value, such as stock price and price/earnings
13 ratios, as other historical measures or analysts' growth forecasts. *Other*
14 *proxies for growth such as historical growth rates and analysts' growth*
15 *forecasts outperform retention growth estimates.* (emphasis added)⁷⁹

16 **Q. DO YOU HAVE ANY OTHER CONCERNS WITH THE USE OF THE**
17 **SUSTAINABLE GROWTH RATE AS A MEASURE OF LONG-TERM GROWTH?**

18 A. Yes. The sustainable growth rate assumes increasing retention ratios necessarily are
19 associated with increasing future growth. The underlying premise is that future earnings
20 will increase as the retention ratio increases. That is, if future growth is modeled as “b x
21 r” (where “b” is the retention ratio and “r” is the earned return on book equity), growth will
22 increase as “b” increases. There are several reasons, however, why that may not be the
23 case. Consequently, it is appropriate to determine whether the data supports the assumption
24 that higher earnings retention ratios necessarily are associated with higher future earnings
25 growth rates.

⁷⁹ Morin, at 306-307.

1 **Q. DOES INDEPENDENT RESEARCH SUPPORT THE FINDING THAT FUTURE**
2 **EARNINGS AND THE RETENTION RATIO ARE NOT POSITIVELY**
3 **RELATED?**

4 A. Yes. In 2006, for example, two articles in Financial Analysts Journal addressed the theory
5 that high dividend payouts (*i.e.*, low retention ratios) are associated with low future
6 earnings growth.⁸⁰ Both articles cite a 2003 study by Arnott and Asness,⁸¹ who found that
7 over the course of 130 years of data, future earnings growth is associated with high, rather
8 than low, payout ratios.⁸² In essence, the findings of all three studies found that there is a
9 negative, not a positive, relationship between the two.

10 **Q. DO YOU AGREE WITH MR. O'DONNELL'S SPECIFICATION OF THE**
11 **SUSTAINABLE GROWTH RATE?**

12 A. No, I do not. Not only do I disagree with Mr. O'Donnell's use of the Sustainable Growth
13 Rate, I also do not agree with his form of the model. The full form of the model assumes
14 growth is a function of its expected earnings, and the extent to which it retains earnings to
15 invest in the enterprise. The form of the model on which Mr. O'Donnell relies is its
16 simplest form, which defines growth solely as a function of internally generated funds.

17 If Mr. O'Donnell is going to consider a form of Sustainable Growth, he should use
18 the "br + sv" form of the model, which reflects growth both from internally generated funds

⁸⁰ See, Ping Zhou, William Ruland, *Dividend Payout and Future Earnings Growth*, Financial Analysts Journal, Vol. 62, No. 3, 2006. See also, Owain ap Gwilym, James Seaton, Karina Suddason, Stephen Thomas, *International Evidence on the Payout Ratio, Earnings, Dividends and Returns*, Financial Analysts Journal, Vol. 62, No. 7, 2006.

⁸¹ See, Robert Arnott, Clifford Asness, *Surprise: Higher Dividends = Higher Earnings Growth*, Financial Analysts Journal, Vol. 59, No. 1, January/February 2003.

⁸² Because the payout ratio is the inverse of the retention ratio, the authors found that future earnings growth is negatively related to the retention ratio.

1 (i.e., the “br” term) and from issuances of equity (i.e., the “sv” term). As noted above, the
2 first term is the product of the retention ratio (i.e., “b”, or the portion of net income not
3 paid in dividends) and the expected ROE (i.e., “r”), which represents the portion of net
4 income that is “plowed back” into the company as a means of funding growth. The “sv”
5 term is represented as:

$$\left(\frac{m}{b} - 1\right) \times \text{Common shares growth rate}$$

7 where $\frac{m}{b}$ is the M/B ratio. In that form, the “sv” term reflects an element of growth
8 as the product of: (1) the growth in shares outstanding, and (2) that portion of the M/B ratio
9 that exceeds unity.

10 **Q. WHAT ARE YOUR CONCLUSIONS REGARDING THE APPROPRIATE**
11 **GROWTH RATES FOR THE CONSTANT GROWTH DCF MODEL?**

12 A. Based on the analyses and research noted above and in my response to Mr. Hinton, I
13 conclude projected EPS growth rates are the appropriate measure of growth in the Constant
14 Growth DCF model.

15 **Q. WHAT ARE MR. O'DONNELL'S GROWTH RATE RANGE AND INDICATED**
16 **DCF MODEL RESULTS USING PROJECTED EPS GROWTH RATES?**

17 A. As shown in Schedule DWD-11R, I calculated the individual DCF results of each of Mr.
18 O'Donnell's proxy companies using his three measures of the dividend yield and the
19 average of his three EPS projected growth rates from *Value Line*, CFRA, and Charles
20 Schwab. That analysis indicates average DCF results of 9.51% to 9.57%.

1 **D. Comparable Earnings Model**

2 **Q. PLEASE SUMMARIZE MR. O'DONNELL'S CEM.**

3 A. Mr. O'Donnell performs two forms of the CEM. His first method reviews the historical
4 and forecast earned returns on book value from *Value Line* for his proxy group for the
5 years 2019 through 2021 and the three- to five-year forecast. The results of Mr.
6 O'Donnell's first CEM range from 9.20% to 9.70%.⁸³ For Mr. O'Donnell's second CEM
7 he calculates the annual average authorized returns for natural gas utilities since 2006.
8 Based on those analyses he estimates a range of results from 9.00% to 10.00%.⁸⁴

9 **Q. WHAT IS YOUR RESPONSE TO MR. O'DONNELL'S FIRST METHOD?**

10 A. While I appreciate that Mr. O'Donnell used projected data in calculating his CEM, as
11 discussed in my response to Mr. Hinton, the CEM analysis should be based on a broad
12 group of comparable companies, and not utilities as Mr. O'Donnell has done. As such, I
13 do not agree with Mr. O'Donnell's application of the CEM.

14 **Q. WHAT IS YOUR RESPONSE TO MR. O'DONNELL'S SECOND METHOD?**

15 A. Although Mr. O'Donnell suggests that "regulated ROE's have trended down over the past
16 15 years,"⁸⁵ he fails to note that, as shown on his Chart 5, since 2013 authorized returns for
17 natural gas utilities have been relatively stable. In fact, authorized returns through July 30,
18 2021 averaged 9.60%, which is similar to the average authorized returns in 2013 through
19 2019, and 14 basis points above the 2020 average.

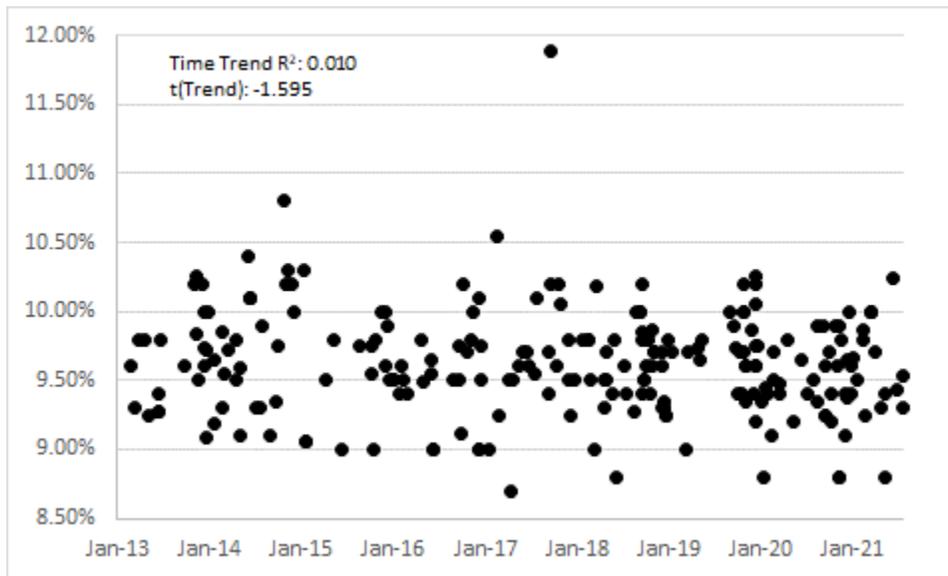
⁸³ O'Donnell Direct Testimony, at 56.

⁸⁴ *Ibid.*, at 58.

⁸⁵ *Ibid.*, at 57.

1 More importantly though, average annual data obscures variations in returns and
 2 does not address the number of cases nor the jurisdictions issuing orders within a given
 3 year. For example, one year may have fewer cases decided, and a relatively large portion
 4 of those cases decided by a single jurisdiction. As shown in Chart 4, below, if all individual
 5 authorized ROEs are charted, rather than annual averages, there is no meaningful trend
 6 since 2013. Rather, time explains approximately 1% of the change in ROEs, and the trend
 7 variable is statistically insignificant. Mr. O'Donnell's reference to the trend in annual
 8 averages inaccurately suggests authorized returns have trended downward recently, when
 9 they have not.

Chart 4: Natural Gas Authorized Returns (2013-2021)⁸⁶



11

⁸⁶ Source: Regulatory Research Associates. Excludes limited issue rate riders. Based on data through July 30, 2021.

1 From a slightly different perspective, the recent fluctuations around the annual
2 average authorized return data are well within the standard deviation of authorized ROEs,
3 as shown in Table 7, below.

4 **Table 7: Mean, Median, and Standard Deviation of Authorized Returns**
5 **(2013-2021)⁸⁷**

Year	Average	Median	Standard Deviation
2013	9.68%	9.72%	0.33%
2014	9.78%	9.78%	0.44%
2015	9.60%	9.68%	0.39%
2016	9.53%	9.50%	0.32%
2017	9.73%	9.60%	0.61%
2018	9.59%	9.60%	0.30%
2019	9.72%	9.72%	0.29%
2020	9.46%	9.42%	0.31%
2021	9.60%	9.57%	0.34%

6 From that perspective as well, there is no reason to conclude authorized returns
7 have fallen since 2013.

8 **Q. ARE THERE OTHER DISTINCTIONS THAT ARE IMPORTANT TO CONSIDER**
9 **WHEN REVIEWING AUTHORIZED RETURNS?**

10 A. Yes, there are. The regulatory environment is one of the most important factors debt and
11 equity investors factor in their assessment of risk. Further, utility credit ratings and
12 outlooks depend substantially on the extent to which rating agencies view the regulatory
13 environment credit supportive, or not. For example, Moody's finds the regulatory
14 environment to be so important that 50.00% of the factors that weigh in its ratings

⁸⁷ Source: Regulatory Research Associates. Excludes limited issue rate riders. Based on data through July 30, 2021.

1 determination are determined by the nature of regulation.⁸⁸ Given Piedmont's need to
2 access external capital, and the weight rating agencies place on the nature of the regulatory
3 environment, it is important to consider the extent to which the jurisdictions that recently
4 have authorized ROEs for natural gas utilities are viewed as having constructive regulatory
5 environments.

6 As shown in Table 8 (below; *see also* Schedule DWD-12R), I analyzed the
7 authorized ROE for natural gas utilities based on the jurisdiction's ranking by RRA, which
8 provides an assessment of the extent to which regulatory jurisdictions are constructive from
9 investors' perspectives, or not. As RRA explains, less constructive environments are
10 associated with higher levels of risk:

11 RRA maintains three principal rating categories, Above Average, Average
12 and Below Average, with Above Average indicating a relatively more
13 constructive, lower-risk regulatory environment from an investor viewpoint
14 and Below Average indicating a less constructive, higher-risk regulatory
15 climate. Within each principal rating categories, the numbers 1, 2 and 3
16 indicate relative position. The designation 1 indicates a stronger or more
17 constructive rating from an investor viewpoint; 2, a midrange rating; and 3,
18 a less constructive rating. Hence, if you were to assign numeric values to
19 each of the nine resulting categories, with a "1" being the most constructive
20 from an investor viewpoint and a "9" being the least constructive from an
21 investor viewpoint, then Above Average/1 would be a "1" and Below
22 Average/3 would be a "9."⁸⁹

23 The Commission currently is ranked "Average/1", which falls in the top-third of
24 the 53 jurisdictions ranked by RRA.

25 Across the 232 vertically integrated rate cases for which RRA reports an authorized
26 ROE since 2013, there was a 36-basis point difference between the median return for

⁸⁸ See, Moody's Investors Service Rating Methodology: *Regulated Electric and Gas Utilities*, June 23, 2017, at 4.

⁸⁹ Regulatory Research Associates, *RRA Regulatory Focus: State Regulatory Evaluations*, May 25, 2021, at 7.

1 jurisdictions ranked in the top third of all jurisdictions, and jurisdictions ranked in the
2 middle third of all jurisdictions (the higher-ranked jurisdictions providing the higher
3 authorized returns; *see* Table 8, below). As Table 8 indicates, authorized ROEs for natural
4 gas utilities in jurisdictions rated in the top third of all jurisdictions, including North
5 Carolina, range from 9.20% to 10.55%, with an average of 9.83%, and a median of 9.85%.

6 **Table 8: Natural Gas Authorized ROE by RRA Ranking**⁹⁰

Authorized ROE (%) Natural Gas Utilities			
RRA Ranking	Top Third	Middle Third	Bottom Third
Mean	9.83%	9.45%	9.62%
Median	9.85%	9.49%	9.60%
Maximum	10.55%	10.20%	11.88%
Minimum	9.20%	8.70%	9.10%

7
8 In view of the above, my recommended ROE, 10.25%, is consistent with the returns
9 authorized in more constructive jurisdictions, such as North Carolina.

10 **E. CAPM Analysis**

11 **Q. PLEASE SUMMARIZE MR. O'DONNELL'S CAPM ANALYSIS.**

12 A. Mr. O'Donnell uses the range of 30-year Treasury yields between April 1, 2019 and July
13 2, 2021 for the risk-free rate component. He uses *Value Line* Beta coefficients and Market
14 Risk Premiums ("MRP") of 4.25% and 6.25%, based on historical and investment
15 professionals' forecasts, to derive CAPM estimates of 4.60% to 8.60% for his proxy group

⁹⁰ Source: Regulatory Research Associates. "Top Third" includes Above Average/1,2,3 and Average/1; "Middle Third" includes Average/2; "Bottom Third" includes Average/3 and Below Average/1,2,3. Of the 53 total jurisdictions, the "Top Third" group includes 17 jurisdictions, the "Middle Third" group includes 16 jurisdictions, and the "Bottom Third" group includes 20 jurisdictions. . *See also*, Schedule DWD-12R. Excludes limited issue riders.

1 and Duke Energy, which he believes indicates a “proper” CAPM result of 6.00% to
2 8.00%.⁹¹ Mr. O’Donnell’s CAPM results are used as a check on his DCF results.⁹²

3 **Q. WHAT ISSUES DO YOU TAKE WITH MR. O’DONNELL’S CAPM ANALYSIS?**

4 A. I take several issues with Mr. O’Donnell’s CAPM analysis, including: (1) his failure to
5 include projected Treasury yields in his analysis; (2) his use of a subset of historical data
6 instead of the long-term historical average MRP in his analysis; (3) his use of geometric
7 returns in the calculation of the historical MRP; (4) his use of the total return on Long-
8 Term Government bonds as a proxy for the risk-free rate in the historical MRP; (5) his
9 consideration of professional investor forecasts and market surveys for his MRP analysis;
10 and (6) his analysis did not include an Empirical CAPM (“ECAPM”). I have discussed the
11 use of projected interest rates in my response to Mr. Hinton. The remaining issues are
12 discussed in turn below.

13 **Q. DO YOU AGREE WITH MR. O’DONNELL’S USE OF A 1972-2019 HISTORICAL**
14 **TIME PERIOD FOR HIS HISTORICAL MRP CALCULATION?**

15 A. No, I don’t. SBBI – 2021 makes it clear that the arbitrary selection of short historical
16 periods is highly suspect and unlikely to be representative of long-term trends in market
17 data. For example, SBBI - 2021 states:

18 The estimate of the equity risk premium depends on the length of the data
19 series studied. A proper estimate of the equity risk premium requires a data
20 series long enough to give a reliable average without being unduly
21 influences by very good and very poor short-term returns. When calculated
22 using a long data series, the historical equity risk premium is relatively
23 stable. Furthermore, because an average of the realized equity risk
24 premium, is quite volatile when calculated using a short history, using a long

⁹¹ O’Donnell Direct Testimony, at 67-68.

⁹² *Ibid.*, at 40.

1 series makes it less likely that the analyst can justify any number he or she
2 wants.⁹³

3 The academic literature demonstrates and confirms that a subset of data could be
4 subject to data manipulation. Because of this, Mr. O'Donnell's historical MRPs should be
5 viewed with considerable caution.

6 **Q. DO YOU AGREE WITH MR. O'DONNELL'S ESTIMATE OF THE HISTORICAL**
7 **MARKET RISK PREMIUM?**

8 A. No. Mr. O'Donnell presents the geometric and arithmetic mean market return estimates
9 based on the Ibbotson historical average from 1972-2019.⁹⁴ In addition to using an
10 inappropriate time period, his use of the geometric mean for cost of capital purposes is also
11 inappropriate. Only arithmetic mean return rates, equity risk premiums, and yields are
12 appropriate for cost of capital purposes because *ex-post* (historical) total returns and equity
13 risk premiums differ in size and direction over time, indicating volatility, *i.e.*, variance or
14 risk. The arithmetic mean captures the prospect for variance in returns and equity risk
15 premiums, providing the valuable insight needed by investors in estimating risk in the
16 *future* when making a *current* investment. Absent such valuable insight into the potential
17 variance of returns, investors cannot meaningfully evaluate prospective risk. The
18 geometric mean of ex-post equity risk premiums provides no insight into the potential
19 variance of future returns because the geometric mean relates the change over many time
20 periods to a constant rate of change, rather than the year-to-year fluctuations, or variance,
21 *critical to risk analysis*. Therefore, the geometric mean is of little to no value to investors

⁹³ Duff & Phelps 2021 SBBI® Yearbook Stocks, Bonds, Bills and Inflation at 10-23 (“SBBI-2021”).
⁹⁴ O'Donnell Direct Testimony, at 64.

1 seeking to measure risk. Moreover, from a statistical perspective, since stock returns and
2 equity risk premiums are randomly generated, the arithmetic mean is expectational and
3 consistent with the prospective nature of the cost of capital and ratemaking noted above.

4 The financial literature is quite clear that risk is measured by the variability of
5 expected returns, *i.e.*, the probability distribution of returns.⁹⁵ SBBI-2021⁹⁶ explains in
6 detail why the arithmetic mean is the correct mean to use when estimating the cost of
7 capital.

8 In addition, Weston and Brigham provide the standard financial textbook definition
9 of the riskiness of an asset when they state:

10 The riskiness of an asset is defined in terms of the likely variability of future
11 returns from the asset. (emphasis added)⁹⁷

12 Furthermore, Morin states:

13 The geometric mean answers the question of what constant return you
14 would have had to achieve in each year to have your investment growth
15 match the return achieved by the stock market. The arithmetic mean
16 answers the question of what growth rate is the best estimate of the future
17 amount of money that will be produced by continually reinvesting in the
18 stock market. It is the rate of return which, compounded over multiple
19 periods, gives the mean of the probability distribution of ending wealth.
20 (emphasis added)⁹⁸

21 In addition, Brealey and Myers note:

22 The proper uses of arithmetic and compound rates of return from past
23 investments are often misunderstood... Thus the arithmetic average of the
24 returns correctly measures the opportunity cost of capital for investments...
25 *Moral:* If the cost of capital is estimated from historical returns or risk

⁹⁵ Eugene F. Brigham, Fundamentals of Financial Management, (The Dryden Press, 1989), at 639.

⁹⁶ SBBI-2021, at p. 10-22.

⁹⁷ J. Fred Weston and Eugene F. Brigham, Essentials of Managerial Finance, 3rd Edition (The Dryden Press, 1974), at 272.

⁹⁸ Morin, at 133.

1 premiums, use arithmetic averages, not compound annual rates of return.
2 (*italics in original*)⁹⁹

3 As previously discussed, investors gain insight into relative riskiness by analyzing
4 expected *future* variability. This is accomplished using the arithmetic mean of a random
5 distribution of returns/premiums. Only the arithmetic mean considers all the
6 returns/premiums over a period of time, hence, providing meaningful insight into the
7 variance and standard deviation of those returns/premiums.

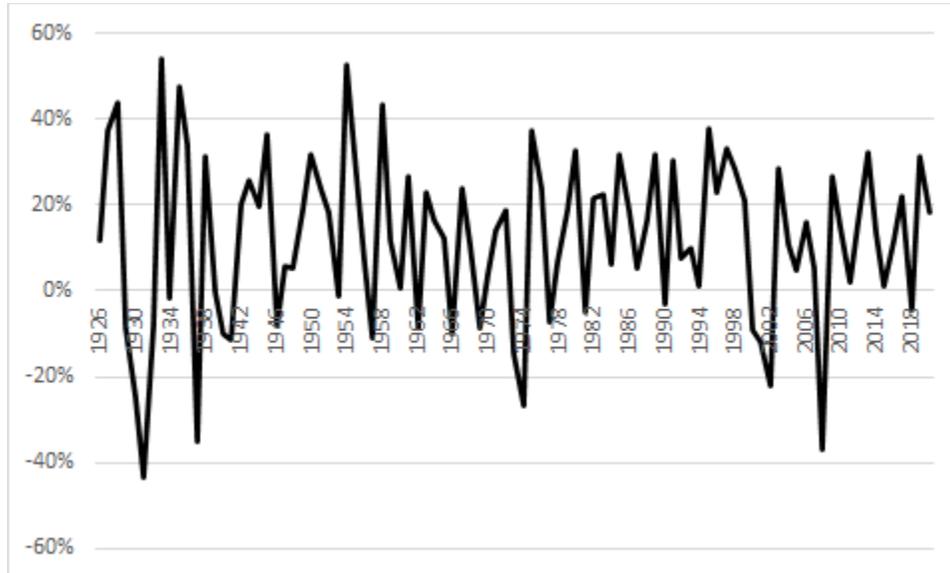
8 **Q. CAN IT BE DEMONSTRATED THAT THE ARITHMETIC MEAN TAKES INTO**
9 **ACCOUNT ALL OF THE RETURNS AND, THEREFORE, IS THE ONLY**
10 **APPROPRIATE MEAN TO USE WHEN ESTIMATING THE COST OF**
11 **CAPITAL?**

12 A. Yes. Schedules DWD-9R and DWD-13R graphically demonstrate this. Schedule DWD-
13 13R charts the SBBI-2021 returns on large company stocks for each and every year from
14 1926 through 2020. It is clear from looking at the year-to-year variation of these returns
15 that stock market returns and, hence, MRPs vary (see Chart 5, below).

⁹⁹ Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance, Fifth Edition (The McGraw-Hill Companies, Inc., 1996), at 146 – 147.

1

Chart 5: U.S. Large Company Stock Returns 1926-2020¹⁰⁰



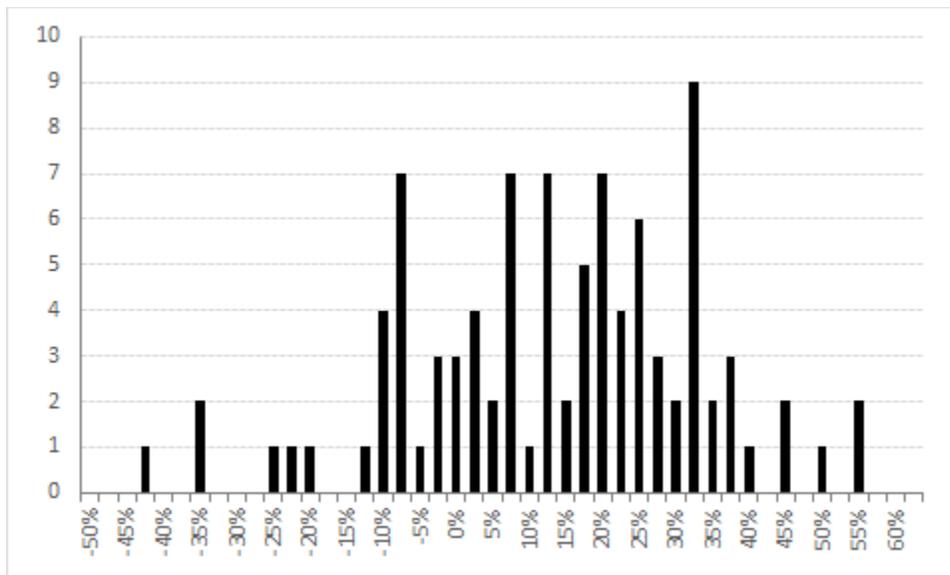
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The distribution of each of those returns for the period from 1926 through 2020 is shown on Schedule DWD-9R and Chart 6, below.

5

6
7

Chart 6: Frequency Distribution of Observed Market Returns, 1926 - 2020¹⁰¹



8

¹⁰⁰ SBBI-2021 at Appendix A-1.
¹⁰¹ Schedule DWD-9R.

1 There is a clear bell-shaped pattern to the probability distribution of returns, an
2 indication that they are randomly generated and not serially correlated. The arithmetic
3 mean of this distribution of returns considers each and every return in the distribution. In
4 doing so, the arithmetic mean takes into account the standard deviation or likely variance
5 which may be experienced in the future when estimating the rate of return based on such
6 historical returns.

7 In contrast, the geometric mean considers only two of the returns, the initial and
8 terminal years, which, in this case, are 1926 and 2020. Based on only those two years, a
9 constant rate of return is calculated by the geometric average. That constant return is
10 graphically represented by a flat line, showing no year-to-year variation for the entire 1926
11 to 2020 time period. This is obviously unrealistic, based on the histogram shown in Chart
12 6 above. In view of the foregoing, Mr. O'Donnell should have exclusively relied on the
13 long-term arithmetic average return on the market in calculating his historical risk premium
14 using SBBI-2021 data.

15 **Q. PLEASE COMMENT ON MR. O'DONNELL'S USE OF TOTAL RETURNS ON**
16 **LONG-TERM GOVERNMENT BONDS IN THE CALCULATION OF HIS MRP.**

17 A. Although Mr. O'Donnell relies on Duff & Phelps' historical returns in his CAPM analysis,
18 he has ignored their recommendation to rely on the income return and not the total return
19 on U.S. Treasury securities in deriving an MRP. As indicated in SBBI-2021:

20 Another point to keep in mind when calculating the equity risk premium is
21 that the income return on the appropriate-horizon Treasury security, rather
22 than the total return, is used in the calculation.

23 The total return comprises three return components: the income return, the
24 capital appreciation return, and the reinvestment return. The income return
25 is defined as the portion of the total return that results from a periodic cash

1 flow or, in this case, the bond coupon payment. The capital appreciation
2 return results from the price change of a bond over a specific period. Bond
3 prices generally change in reaction to unexpected fluctuations in yields.
4 Reinvestment return is the return on a given month's investment income
5 when reinvested into the same asset class in the subsequent months of the
6 year. The income return is thus used in the estimation of the equity risk
7 premium because it represents the truly riskless portion of the return.¹⁰²

8 Also, as shown in SBBI-2021 on page 6-17, the standard deviation for the income
9 return on long-term government bonds is 2.6%, which is the lowest (i.e., least risky)
10 measure of all bond returns followed by SBBI. Mr. O'Donnell's recommended measure
11 of the risk-free rate, the total return on long-term government bonds, has a standard
12 deviation of 9.8%, which is the highest (i.e., most risky) measure of all bond returns
13 followed by SBBI. These measures alone warrant the use of the income return on long-
14 term government bonds as the appropriate proxy of the risk-free rate for use in the
15 calculation of the MRP in a CAPM analysis.

16 In view of the above, the correct derivation of the historical MRP is the difference
17 between the arithmetic mean total return on large company common stocks of 12.20%, and
18 the arithmetic mean 1926-2020 income return on long-term government bonds of 4.90%,
19 which results in an MRP of 7.30%.¹⁰³

20 **Q. WHAT IS YOUR RESPONSE TO MR. O'DONNELL'S REFERENCE TO**
21 **PROFESSIONAL INVESTOR FORECASTS AND MARKET SURVEYS THAT**

¹⁰² SBBI-2021, at 10-22.

¹⁰³ *Ibid.*, at 6-17.

1 **INDICATE EXPECTED MARKET RETURNS RANGE FROM NEGATIVE 5.80%**
2 **(REAL) TO 5.70% (NOMINAL)?¹⁰⁴**

3 A. I have several concerns with his reference. First, Mr. O'Donnell's 9.00% ROE
4 recommendation is at odds with the data he presents. Mr. O'Donnell refers to the market
5 forecasts summarized in Table 9, below.

6 **Table 9: Summary of Mr. O'Donnell's Market Return Forecast References¹⁰⁵**

Institution	Market Return Forecast
BlackRock Investment Institute	5.00% nominal return for US large caps over the next decade
Grantham, Mayo, & van Otterloo (GMO)	-5.80% real returns for US large caps over the next 7 years
JP Morgan Asset Management	4.10% nominal return for US equities over a 10-15-year horizon
Morningstar Investment Management	-0.10% 10-year nominal returns for US stocks
Research Affiliates	2.00% nominal and -0.20% real (inflation adjusted) returns for US large caps during the next 10 years
Vanguard	Nominal equity market returns of 3.70% to 5.70% during the next decade

7
8
9
10 As Table 9 indicates, the expected market returns (on a nominal basis) range from
11 negative 0.10% to 5.70% for U.S. equities. Mr. O'Donnell, however, estimates an ROE of
12 9.00% for a utility that is generally less risky than the overall market. If Mr. O'Donnell
13 believes these expected returns are meaningful measures of investor-required returns,
14 which is the subject of his testimony, his recommendation would be no higher than 5.70%.

15 In addition to the short-term nature of these forecasts and the difference between
16 expected and required returns as discussed in response to Mr. Hinton's testimony, Mr.
17 O'Donnell does not consider the limiting language often contained in documents providing

¹⁰⁴ O'Donnell Direct Testimony, at 65.

¹⁰⁵ *Ibid.*, at 65.

1 expected market returns. For example, JP Morgan Asset Management's *2021 Long-Term*
2 *Capital Market Assumptions* (the source document for the 4.10% expected market return
3 noted in Table 9, above) states:

4 Please note that all information shown is based on qualitative analysis.
5 Exclusive reliance on the above is not advised. This information is not
6 intended as a recommendation to invest in any particular asset class or
7 strategy or as a promise of future performance. Note that these asset class
8 and strategy assumptions are passive only – they do not consider the impact
9 of active management. References to future returns are not promises or
10 even estimates of actual returns a client portfolio may achieve.
11 Assumptions, opinions and estimates are provided for illustrative purposes
12 only.¹⁰⁶

13 Regarding the Duke University CFO Survey (Duke CFO Survey),¹⁰⁷ Mr.
14 O'Donnell's 9.00% recommendation is 221 basis points above the 6.79% expected market
15 return suggested by the survey.¹⁰⁸ If the survey were a reasonable method of determining
16 the expected market return, Mr. O'Donnell's ROE recommendation would be no higher
17 than 6.79%. Further, over time the survey results have rather significantly underestimated
18 actual market performance (*see*, Table 10).

¹⁰⁶ JP Morgan Asset Management, *2021 Long-Term Capital Market Assumptions*, at PDF 130.

¹⁰⁷ O'Donnell Direct Testimony, at 66.

¹⁰⁸ *Ibid.*, at 67.

1 **Table 10: S&P 500 Market Return: Accuracy of Duke CFO Survey Estimates**¹⁰⁹

	Actual	Survey Estimate
2020	18.40%	5.23%
2019	31.49%	4.59%
2018	-4.38%	6.57%
2017	21.83%	5.00%
2016	11.96%	4.32%
2015	1.38%	6.07%
2014	13.69%	5.00%
2013	32.39%	3.40%
2012	16.00%	4.00%
2011	2.11%	5.30%
2010	15.06%	6.28%
Average	14.54%	5.07%

2 The Duke CFO Survey authors also have noted a distinction between the expected
3 market return on one hand, and the “hurdle rate” on the other. In the Third Quarter 2017
4 survey, the authors reported an average hurdle rate, which is the return required for capital
5 investments, of 13.50%. The authors further reported the average Weighted Average Cost
6 of Capital, which includes the cost of debt, was 9.20% even though the expected market
7 return was 6.50%.¹¹⁰

8 **Q. DO YOU HAVE ANY ADDITIONAL CONCERNS WITH MR. O'DONNELL'S**
9 **CAPM ANALYSIS?**

10 A. Yes. Mr. O'Donnell reviews several data points, but he does not explain how he derives
11 his range of MRPs of 4.25% to 6.25%. For example, it appears Mr. O'Donnell gives

¹⁰⁹ Source: SBBI-2021, Appendix A-1; <http://www.cfosurvey.org> (one-year return estimates as of fourth quarter of the previous year). Note, Graham and Harvey publish the Duke CFO survey.

¹¹⁰ Duke/CFO Magazine Global Business Outlook Survey – U.S., Third Quarter 2017.

1 significant weight to the May 3, 2021, Charles Schwab report, *Why Market Returns May*
 2 *Be Lower and Global Diversification More Important in the Future*, because that report
 3 includes the only MRP estimates at or above the 6.25% upper end of his range.¹¹¹ None
 4 of the other eight sources presented by Mr. O'Donnell include MRP estimates above
 5 5.70%.¹¹² Given the subjective nature of Mr. O'Donnell's range of MRP estimates, it is
 6 impossible to recreate his analysis.

7 **Q. DOES MR. O'DONNELL PERFORM AN ECAPM?**

8 A. No, he does not. Mr. O'Donnell fails to consider the ECAPM, despite the fact that
 9 numerous tests of the CAPM have confirmed that the empirical Security Market Line
 10 ("SML") described by the traditional CAPM is not as steeply sloped as the predicted SML.
 11 Because of the empirical findings presented in my Direct Testimony, and below, Mr.
 12 O'Donnell should have considered the ECAPM in his CAPM analysis.

13 As discussed in my Direct Testimony, numerous tests of the CAPM have measured
 14 the extent to which security returns and betas are related as predicted by the CAPM. Fama
 15 and French found that "[t]he returns on the low beta portfolios are too high, and the returns
 16 on the high beta portfolios are too low."¹¹³

17 Similarly, Morin states:¹¹⁴

18 With few exceptions, the empirical studies agree that ... low-beta securities
 19 earn returns somewhat higher than the CAPM would predict, and high-beta
 20 securities earn less than predicted.

21 * * *

22 For an alpha in the range of 1%-2% and for reasonable values of the market

¹¹¹ O'Donnell Direct Testimony, at 64-66.

¹¹² *Ibid.*

¹¹³ Eugene F. Fama and Kenneth R. French, *The Capital Asset Pricing Model: Theory and Evidence*, Journal of Economic Perspectives, Vol. 18, No. 3, Summer 2004, at 33.

¹¹⁴ Morin, at 175 and 190.

1 risk premium and the risk-free rate, Equation 6-5 reduces to the following
2 more pragmatic form:

$$3 \quad K = R_F + 0.25 (R_M - R_F) + 0.75 \beta (R_M - R_F) \quad (6-6)$$

4 Over reasonable values of the risk-free rate and the market risk premium,
5 Equation 6-6 produces results that are indistinguishable from the ECAPM
6 of Equation 6-5.¹²

7 ¹². . . Therefore, the empirical evidence suggests that the expected return
8 on a security is related to its risk by the following approximation:

$$9 \quad K = R_F + x \beta (R_M - R_F) + (1-x) \beta (R_M - R_F)$$

10 where x is a fraction to be determined empirically. The value of x that best
11 explains the observed relationship $\text{Return} = 0.0829 + 0.0520 \beta$ is between
12 0.25 and 0.30. If $x = 0.25$, the equation becomes:

$$13 \quad K = R_F + 0.25(R_M - R_F) + 0.75 \beta (R_M - R_F)$$

14 In addition to the above academic evidence, the New York Public Service
15 Commission has been using this form of the CAPM, with factors of 0.25 and 0.75, since
16 the mid-1990s. As such, the ECAPM is a well-established model that has been relied on
17 in both academic and regulatory settings. I continue to believe it is an appropriate model
18 to estimate Piedmont's ROE.

19 **F. Response to Mr. O'Donnell's Criticisms**

20 **Q. DOES MR. O'DONNELL HAVE ANY CRITIQUES OF YOUR ANALYSIS?**

21 A. Yes, he does. Critiques of my analysis include: (1) my exclusive reliance on projected EPS
22 growth rates in the DCF model; (2) that my estimate of the MRP is too high; (3) my use of
23 the ECAPM; (4) that my RPM is "overly complex" compared to the DCF model; and (5)
24 a flotation cost adjustment is not appropriate.

25 I have addressed critiques 1, 2, and 3 previously in this testimony and will not
26 address them again here. I respond to the remaining critiques in turn below.

1 Q. WHAT IS YOUR RESPONSE TO MR. O'DONNELL'S CONCERN THAT YOUR
2 RPM IS "OVERLY COMPLEX"? ¹¹⁵

3 A. Although Mr. O'Donnell suggests that finance is simple, and his analysis is simple, my
4 testimony demonstrates that the question of equity financing of a regulated utility is
5 anything but simple. If finance and determining the ROE were simple, investors would
6 rely on the DCF model and not consider the results of any other analysis. In fact, other
7 models would not be necessary. As discussed previously in my Rebuttal Testimony, that
8 is not the case. No model is appropriate under all market conditions. Because of that, the
9 use of multiple models is supported in both the financial literature and regulatory
10 precedent. If determining the appropriate ROE for utilities was as simple as performing a
11 DCF analysis, none of the expert witnesses in this proceeding, or any other, would be
12 necessary. As Mr. O'Donnell notes, that is not the case:

13 There is no direct, observable way to determine the rate of return required
14 by equity investors in any company or group of companies. Investors must
15 make do with indications from market data and analyst predictions to
16 estimate the appropriate price of a share. ¹¹⁶

17 Furthermore, the simplicity of the DCF model does not imply that other models,
18 such as the RPM are invalid. The DCF model, CAPM, and RPM are based on varying
19 assumptions and inputs, but are all valid approaches to estimating the ROE and are
20 supported in both the financial literature and regulatory precedent, as discussed previously.

21 Lastly, my RPM analysis is based on multiple estimates of the Risk Premium, both
22 historical and forward-looking. Mr. O'Donnell similarly relies on several estimates of the

¹¹⁵ O'Donnell Direct Testimony, at 40.

¹¹⁶ *Ibid.*

1 MRP in his CAPM analysis. Although Mr. O'Donnell finds my RPM to be "overly
2 complex", I have relied on multiple estimates of the Risk Premium to ensure that my
3 estimate is not biased by any single approach or data source.

4 Because Mr. O'Donnell finds the RPM complicated does not mean that the model
5 produces an unreasonable estimate of the ROE for Piedmont. As such, I strongly disagree
6 with Mr. O'Donnell's implication that my RPM is "convoluted" because he finds it to be
7 "overly complex."

8 **Q. WHAT IS YOUR RESPONSE TO MR. O'DONNELL'S CONCERN WITH YOUR**
9 **FLOTATION COST ADJUSTMENT?**

10 A. Flotation costs are reflected on the balance sheet under "paid in capital" and incurred over
11 time. As a result, flotation costs remain part of a company's cost structure during the test
12 year and beyond even if the costs were incurred prior to the test year.¹¹⁷

13 As noted by Morin:

14 Unlike the case of bonds, common stock has no finite life so that flotation
15 costs cannot be amortized and therefore must be recovered by way of an
16 upward adjustment to the allowed return on equity.¹¹⁸

17 Morin further notes that the equity capital raised in a given offering remains on the
18 balance sheet, and as such, it "would be unfair to burden the current generation of
19 ratepayers with the full costs of raising capital when the benefits of that capital extend
20 indefinitely."¹¹⁹

¹¹⁷ D'Ascendis Direct Testimony, at 83-84.

¹¹⁸ Morin, at 327.

¹¹⁹ *Ibid.* In this quote, Morin is speaking to the issue of recovering flotation costs through rates as they are incurred.

1 Whether paid directly or indirectly through an underwriting discount, the cost
2 results in net proceeds that are less than the gross proceeds. Under federal law, the
3 underwriters' compensation must be disclosed in the offering prospectus. In fact, those
4 prospectuses are the source of the issuance costs included in Schedule DWD-8 to my Direct
5 Testimony. Because those costs were incurred, the net proceeds to the issuing company
6 were less than the gross proceeds. Whether the issuer wrote a check or received the
7 proceeds at a discount does not matter. What does matter is that issuance costs are a
8 permanent reduction to common equity, and absent a recovery of those costs, the issuing
9 company will not be able to earn its required return.

10 As further discussed in my Direct Testimony, wholly owned subsidiaries such as
11 Piedmont receive capital from their parents, and provide returns on the capital that roll up
12 to the parent, which is designated to attract and raise capital based on the returns of those
13 subsidiaries.¹²⁰ As such, denying recovery of issuance costs would penalize the investors
14 that fund the utility operations. As shown in Schedule DWD-14R, because of flotation
15 costs, an authorized return of 10.85% would be required to realize an ROE of 10.75% (i.e.,
16 a 10-basis point flotation cost adjustment). If flotation costs are not recovered, the growth
17 rate falls and the ROE decreases to 10.65% (i.e., below the required return).¹²¹

¹²⁰ D'Ascendis Direct Testimony, at 7-8.

¹²¹ Schedule DWD-14R is provided for illustrative purposes only. Please note that I have not relied on the results of the analysis in determining my recommended ROE or range.

1 **VI. RESPONSE TO CIGFUR WITNESS PHILLIPS**

2 **Q. PLEASE SUMMARIZE MR. PHILLIPS' DIRECT TESTIMONY AS IT RELATES**
3 **TO THE COMPANY'S RETURN ON EQUITY.**

4 A. Mr. Phillips states that the Company's requested ROE is inconsistent with recently
5 authorized returns, which he notes are 9.56% over the 12-month period ending March 31,
6 2021. He also suggests that the Commission consider Piedmont's cost recovery
7 mechanisms in setting the authorized ROE.

8 **Q. WHAT IS YOUR RESPONSE TO MR. PHILLIPS?**

9 A. As discussed in my response to Mr. O'Donnell, average authorized return data obscures
10 the variations in returns and does not address the number of cases nor the jurisdictions
11 issuing orders within a given year. Pointing solely to a 12-month average of authorized
12 returns provides little value in providing context to the appropriate ROE for Piedmont. As
13 further discussed in my response to Mr. O'Donnell, the regulatory environment is one of
14 the most important factors debt and equity investors factor in their assessment of risk. As
15 shown in Table 8, more constructive jurisdictions from an investor standpoint tend to have
16 higher authorized returns.

17 In addition, as discussed in my response to Mr. Hinton, the cost of capital is a
18 comparative exercise, so if a cost recovery mechanism is common throughout the proxy
19 companies, the comparative risk is zero because any impact of the perceived reduced risk
20 of the mechanism(s) by investors would be reflected in the market data of the proxy group.
21 To that point, as shown on Schedule DWD-8R, ten of the eleven companies in Mr. Hinton's

1 proxy group have a capital investment rider and ten of his eleven proxy group companies
2 have a decoupling mechanism in at least one of their jurisdictions.

3 **VII. CONCLUSION**

4 **Q. PLEASE SUMMARIZE YOUR REBUTTAL TESTIMONY.**

5 A. In this Rebuttal Testimony I updated my ROE models with market data as of July 30, 2021.
6 The results of the ROE models produced indicated ranges of ROEs from 9.59% to 12.72%
7 (unadjusted) and from 9.70% to 12.83% (adjusted).¹²² Given these ranges, I maintain my
8 initial recommendation of 10.25%, which, in light of the current capital markets, is
9 reasonable, if not conservative.

10 Regarding the Opposing Witnesses' direct testimonies, I discussed my
11 disagreements with their analyses, which I supported with citations to the academic
12 literature and empirical analyses. I also responded to any critiques to my Direct Testimony,
13 again, supporting my responses with citations to the academic literature and empirical
14 analyses.

15 **Q. SHOULD ANY OR ALL OF THE ARGUMENTS MADE BY THE OPPOSING**
16 **WITNESSES PERSUADE THE COMMISSION TO LOWER THE RETURN ON**
17 **COMMON EQUITY IT APPROVES FOR PIEDMONT BELOW YOUR**
18 **RECOMMENDATION?**

19 A. No, they should not. My recommended cost of common equity of 10.25% is both
20 reasonable and conservative. It will provide the Company with sufficient earnings to

¹²² D'Ascendis Rebuttal Testimony, Exhibit DWD-1R, at 2.

1 enable it to attract necessary new capital efficiently and at a reasonable cost, to the benefit
2 of both customers and investors.

3 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

4 A. Yes, it does.

Piedmont Natural Gas Company, Inc.
Docket No. G-9, Sub 781
Settlement Testimony of Dylan W. D'Ascendis

OFFICIAL COPY

Sep 07 2021

BEFORE THE

NORTH CAROLINA UTILITIES COMMISSION

SETTLEMENT TESTIMONY

OF

DYLAN W. D'ASCENDIS, CRRA, CVA

ON BEHALF OF

PIEDMONT NATURAL GAS COMPANY, INC.

Docket No. G-9, Sub 781

1

I. INTRODUCTION

2 **Q. PLEASE STATE YOUR NAME, AFFILIATION, AND BUSINESS**
3 **ADDRESS.**

4 A. My name is Dylan W. D'Ascendis. I am a Partner at ScottMadden, Inc. My
5 business address is 3000 Atrium Way, Suite 200, Mount Laurel, New Jersey 08054.

6 **Q. ARE YOU THE SAME DYLAN W. D'ASCENDIS WHO SUBMITTED**
7 **DIRECT, AND REBUTTAL TESTIMONIES IN THIS PROCEEDING?**

8 A. Yes, I filed direct testimony ("Direct Testimony") and rebuttal testimony
9 ("Rebuttal Testimony") on behalf of Piedmont Natural Gas Company, Inc.
10 ("Piedmont" or the "Company"). In my Direct and Rebuttal testimonies, I
11 recommended an ROE of 10.25%, within ranges of 9.58% to 12.30% (Direct
12 Testimony) and 9.70% to 12.83% (Rebuttal Testimony).

13 **Q. WHAT IS THE PURPOSE OF YOUR SETTLEMENT SUPPORT**
14 **TESTIMONY?**

15 A. The purpose of my testimony is to explain my support for the Stipulation of Partial
16 Settlement, dated September 7, 2021 (the "Partial Settlement") among the
17 Company and the Public Staff – North Carolina Utilities Commission ("Public
18 Staff"), Carolina Utility Customers Association, Inc. ("CUCA"), and Carolina
19 Industrial Group for Fair Utility Rates IV ("CIGFUR") (collectively, the "Settling
20 Parties"). My testimony addresses the agreed-upon return on common equity

1 (“ROE”), capital structure, and overall rate of return contained in the Partial
2 Settlement.¹

3 **Q. HAVE YOU PREPARED ANY EXHIBITS IN CONJUNCTION WITH**
4 **YOUR TESTIMONY?**

5 **A.** Yes. Settlement Exhibit No. DWD-1 has been prepared by me, or under my direct
6 supervision.

7 **II. STIPULATED ROE, EQUITY RATIO, AND OVERALL RATE OF**
8 **RETURN**

9 **Q. ARE YOU FAMILIAR WITH THE TERMS OF THE PARTIAL**
10 **SETTLEMENT AS IT RELATES TO THE COMPANY’S ROE?**

11 **A.** Yes. I understand the Settling Parties have agreed to an overall rate of return of
12 6.90%, based on a capital structure consisting of 47.75% long-term debt at a cost
13 rate of 4.08%, short term debt of 0.65% at a cost rate of 0.20%, and 51.60%
14 common equity at an ROE of 9.60%.²

15 **Q. IN GENERAL, DO YOU SUPPORT THE COMPANY’S DECISION TO**
16 **AGREE TO THE STIPULATED ROE?**

17 **A.** Yes, I do. Although the Stipulated ROE is somewhat below the lower bound of my
18 recommended range (*i.e.*, 9.70%), I recognize the Partial Settlement represents
19 negotiations among the Settling Parties regarding several otherwise-contested

¹ See, Docket No. G-9, Sub 781, Stipulation of Partial Settlement, September 7, 2021. I refer to the 9.60% ROE as the “Stipulated ROE”, the 51.60% equity ratio as the “Stipulated Equity Ratio”, and the 6.90% overall rate of Return as the “Stipulated Rate of Return”.

² See, Docket No. G-9, Sub 781, Stipulation of Partial Settlement, September 7, 2021.

1 issues. I understand the Company has determined that the terms of the Partial
2 Settlement, in particular the Stipulated ROE and Equity Ratio, would be viewed by
3 the rating agencies as constructive and equitable. I understand and respect that
4 determination.

5 **Q. PLEASE NOW SUMMARIZE YOUR POSITION REGARDING THE**
6 **STIPULATED ROE.**

7 A. Although the Stipulated ROE falls below my recommended range (the low end of
8 which is 9.70%), it is within the range of the analytical results presented in my
9 Direct and Rebuttal Testimonies. As discussed throughout my Direct and Rebuttal
10 Testimonies, the models used to estimate the ROE produce a wide range of
11 estimates. It therefore remains my position that in a fully-litigated proceeding, a
12 range of common equity cost rates between 9.70% and 12.83% is reasonable based
13 on market data. Nonetheless, I recognize the benefits associated with the decision
14 to enter into the Partial Settlement and as such, it is my view that the 9.60%
15 Stipulated ROE is a reasonable resolution of an otherwise contentious issue.

16 **Q. HAVE YOU ALSO CONSIDERED THE STIPULATED ROE IN THE**
17 **CONTEXT OF AUTHORIZED RETURNS FOR OTHER NATURAL GAS**
18 **DISTRIBUTION UTILITIES?**

19 A. Yes, I have. From January 2017 through July 2021, the average and median
20 authorized ROEs for natural gas distribution utilities were 9.61% and 9.60%,

1 respectively. Of the 144 cases decided during that period, 80 included authorized
2 ROEs of 9.60% or higher.³

3 **Q. ARE THERE OTHER DISTINCTIONS THAT ARE IMPORTANT TO**
4 **CONSIDER WHEN REVIEWING AUTHORIZED RETURNS?**

5 **A.** Yes, there are. As noted in my Rebuttal Testimony, the Company's credit rating
6 and outlook depend substantially on the extent to which rating agencies view the
7 regulatory environment credit supportive, or not.⁴ I noted, for example, that
8 Moody's finds the regulatory environment to be so important that 50.00% of the
9 factors that weigh in its ratings determination are determined by the nature of
10 regulation.⁵

11 Given the Company's need to access external capital and the weight rating
12 agencies place on the nature of the regulatory environment, I believe it is important
13 to consider the extent to which the jurisdictions that recently have authorized ROEs
14 for natural gas distribution utilities are viewed as having constructive regulatory
15 environments.

16 **Q. IS NORTH CAROLINA GENERALLY CONSIDERED TO HAVE A**
17 **CONSTRUCTIVE REGULATORY ENVIRONMENT?**

18 **A.** Yes, it is. As discussed in my Rebuttal Testimony, Regulatory Research Associates
19 ("RRA"), which is a widely referenced source of rate case data, provides an

³ *See* Settlement Exhibit DWD-1.

⁴ D'Ascendis Rebuttal Testimony, at 53-55.

⁵ *Ibid.*

1 assessment of the extent to which regulatory jurisdictions are constructive from
2 investors' perspectives, or not.⁶ As RRA explains, less constructive environments
3 are associated with higher levels of risk:

4 RRA maintains three principal rating categories, Above Average,
5 Average, and Below Average, with Above Average indicating a
6 relatively more constructive, lower-risk regulatory environment
7 from an investor viewpoint, and Below Average indicating a less
8 constructive, higher-risk regulatory climate from an investor
9 viewpoint. Within the three principal rating categories, the numbers
10 1, 2, and 3 indicate relative position. The designation 1 indicates a
11 stronger (more constructive) rating; 2, a mid range rating; and, 3, a
12 weaker (less constructive) rating. We endeavor to maintain an
13 approximately equal number of ratings above the average and below
14 the average.⁷

15 Within RRA's ranking system, North Carolina is rated "Average/1", which falls in
16 the top one-third of the 53 regulatory commissions ranked by RRA.⁸

17 **Q. DID YOU CONSIDER THOSE DISTINCTIONS IN YOUR REVIEW OF**
18 **AUTHORIZED RETURNS RELATIVE TO THE STIPULATED ROE?**

19 A. Yes. Across the 144 cases noted above, there was a 20-basis point difference
20 between the median return for the Top Third and Bottom Third of jurisdictions (the
21 higher-ranked jurisdictions providing the higher authorized returns, see Table 1,
22 below). As Table 1 indicates, authorized ROEs for natural gas distribution utilities

⁶ D'Ascendis Rebuttal Testimony, at 54.

⁷ Source: Regulatory Research Associates, accessed July 31, 2021. *See*, D'Ascendis Rebuttal Testimony, at 54.

⁸ Source: Regulatory Research Associates, accessed July 31, 2021.

1 in jurisdictions that, like North Carolina, are rated at least Average/1 range from
2 9.20% to 10.55%, with a median of 9.80%.

3 **Table 1: Average Authorized ROE by RRA Ranking⁹**

	Authorized ROE Natural Gas Distribution Utilities		
RRA Ranking	Top Third	Middle Third	Bottom Third
Average	9.78%	9.46%	9.60%
Median	9.80%	9.40%	9.60%
Maximum	10.55%	10.20%	11.88%
Minimum	9.20%	8.70%	9.10%

4

5 **Q. WHAT CONCLUSIONS DO YOU DRAW FROM THAT DATA?**

6 A. The Stipulated ROE falls 20 to 18 basis points below the median and mean
7 authorized ROE, respectively, for jurisdictions that are comparable to North
8 Carolina’s constructive regulatory environment, and 20 basis points above the
9 median return authorized in less supportive jurisdictions. Taken from that
10 perspective, the Stipulation ROE is a reasonable, if not somewhat conservative
11 measure of the Company’s ROE.

⁹ Source: Regulatory Research Associates. “Top Third” includes Above Average/1,2,3 and Average/1; “Average” includes Average/2 and Average/3; “Bottom Third” includes Below Average/1,2,3. The “Top Third” group includes 18 of 53 jurisdictions, or about one-third of the total. See Settlement Exhibit DWD-1

1 **Q. DO YOU BELIEVE THE STIPULATED CAPITAL STRUCTURE ALSO IS**
2 **REASONABLE?**

3 **A.** Yes, I do. As demonstrated in Table 2 (below) the Stipulated Equity Ratio is
4 slightly below the median authorized equity ratio in supportive regulatory
5 jurisdictions (*i.e.*, 51.98%), and is well within the range of equity ratios authorized
6 in those jurisdictions (38.30% to 59.64%).

7 **Table 2: Average Authorized Equity Ratio by RRA Ranking¹⁰**

	Authorized Equity Ratio Natural Gas Distribution Utilities		
RRA Ranking	Top Third	Middle Third	Bottom Third
Average	51.02%	50.77%	52.07%
Median	51.98%	50.23%	52.00%
Maximum	59.64%	55.00%	60.18%
Minimum	38.30%	42.90%	46.00%

8 Because no two companies are identical, we should not view the average
9 (or median) equity ratio (whether authorized or observed) as a strict measure of
10 industry practice. Nonetheless, the Stipulated Equity Ratio falls well within the
11 range of authorized equity ratios and is slightly below the median for constructive
12 regulatory jurisdictions. In my view, that finding provides additional support for
13 its acceptance.

¹⁰ Source: Regulatory Research Associates. Excludes capital structure decisions from Arkansas, Florida, Indiana, and Michigan, all of which include some form of non-investor supplied capital in the ratemaking capital structure.

1 **Q. HOW DOES THE 6.90% OVERALL RATE OF RETURN CONTAINED IN**
2 **THE PARTIAL SETTLEMENT COMPARE TO RECENTLY**
3 **AUTHORIZED RETURNS?**

4 A. It is quite low. Since January 2017, there have been 134 cases reported by RRA
5 (for natural gas distribution utilities) in which an overall rate of return was
6 specified. Over those 134 cases, the median rate of return was 7.15%, 25 basis
7 points above the 6.90% rate of return contained in the Partial Settlement. From a
8 slightly different perspective, 103 of the 134 cases had overall rates of return greater
9 than 6.90%. In fact, the Partial Settlement's overall rate of return falls in the bottom
10 24th percentile of the 134 cases decided since 2017.

11 The low overall rate of return contained in the Partial Settlement is brought
12 about by the Company's rather low cost of debt. That low cost of debt is supported
13 by reasonable regulatory outcomes, including constructive decisions regarding the
14 ROE and capital structure. In my view, the Partial Settlement continues that
15 support, and produces the low overall rate of return on which customer rates would
16 be set. From that important perspective, the Stipulated ROE and capital structure
17 strike the necessary balance between customer and investor interests.

18 **Q. LASTLY HAS YOUR TESTIMONY CONSIDERED ECONOMIC**
19 **CONDITIONS IN NORTH CAROLINA?**

20 A. Yes, it has. I understand and appreciate the Commission's need to balance the
21 interests of investors and ratepayers, and to consider economic conditions in the
22 State, as it sets rates. As explained in my Direct Testimony, I recognize that

1 economic conditions are recovering in North Carolina and across the U.S as the
2 COVID-19 crisis subsides.¹¹ Because North Carolina's economic conditions
3 remain highly correlated to the overall conditions in the U.S., my review of North
4 Carolina's economic conditions do not alter my conclusion that the Stipulated ROE,
5 Equity Ratio, and Rate of Return are reasonable resolutions to otherwise
6 contentious issues.

7 **Q. DOES THIS CONCLUDE YOUR SETTLEMENT TESTIMONY?**

8 A. Yes, it does.

¹¹ D'Ascendis Direct Testimony, at 51-61.

1 MR. JEFFRIES: And we would also move
2 that Mr. D'Ascendis' prefiled exhibits consisting
3 of prefiled Direct Exhibits DWD-1 through DWD-8,
4 prefiled Rebuttal Exhibit DWD-1 consisting of
5 Schedules DWD-1R through DWD-14R, and
6 Mr. D'Ascendis' Settlement Exhibit DWD-1 be
7 identified as marked.

8 CHAIR MITCHELL: All right.
9 Mr. Jeffries, the exhibits to Mr. D'Ascendis'
10 testimony will be marked for identification as they
11 were when prefiled.

12 (Exhibits DWD-1 through DWD-8, Rebuttal
13 Exhibit DWD-1 consisting of Schedules
14 DWD-1R through DWD-14R, and Settlement
15 Exhibit DWD-1, were identified as they
16 were marked when prefiled.)

17 MR. JEFFRIES: Thank you,
18 Chair Mitchell.

19 Q. Mr. D'Ascendis, have you prepared a summary
20 of your prefiled testimony?

21 A. I have. It may be a little different --
22 slightly different, just adding the summary of my
23 settlement testimony, but I will send that over.

24 Q. Could you provide that to the Commission?

1 MR. JEFFRIES: And we will provide the
2 court reporter with the modified version of
3 Mr. D'Ascendis' summary.

4 THE WITNESS: Okay.

5 My name is Dylan D'Ascendis and I am a
6 partner at ScottMadden, Inc. I offer testimony on
7 issues involving rate of return. I have testified
8 in over 90 proceedings before 32 regulatory
9 jurisdictions. I'm a graduate of the University of
10 Pennsylvania where I received a bachelor of arts
11 degree in economic history. I also hold an MBA
12 from Rutgers University with concentrations in
13 finance and international business. I am a
14 certified rate of return analyst and a certified
15 valuation analyst.

16 My prefiled direct testimony recommends
17 a return on common equity, or ROE, in the range of
18 9.58 percent to 12.30 percent with a point estimate
19 of 10.25 percent. I derived my 10.25 ROE
20 recommendation by applying market-based common
21 equity models, such as the discounted cash flow
22 model, or DCF; the capital asset pricing model, or
23 CAPM; and the risk premium model, or RPM, to a
24 proxy group of risk comparable publicly traded gas

1 distribution utilities and a proxy group of
2 nonregulated companies similar in total risk to the
3 utility proxy group. Applying multiple
4 market-based models to the companies comparable in
5 risk to the regulated utilities consistent with the
6 principals of fair rate of return established in
7 the Hope and Bluefield Supreme Court cases;
8 especially the corresponding risk standard, which
9 mandates that an authorized return on common equity
10 for utilities shall be commensurate with the
11 returns on investments and other enterprises having
12 corresponding risks.

13 Cost of capital testimony tends to be
14 technical, focusing on the financial models used to
15 estimate the ROE, the inputs to those models, and
16 the results they produce. We must apply those
17 models because, unlike interest rates or the cost
18 of debt, we cannot directly observe ROE. And
19 because no individual model by itself provides the
20 best measure of investor behavior at all times and
21 under all market conditions, it is important to
22 provide -- or apply a variety of methods to
23 estimate the cost of equity.

24 My prefiled rebuttal testimony updates

1 my analysis using market data as of July 30, 2021.
2 Those data supported the slightly increased range
3 of ROEs between 9.70 percent and 12.83 percent. I
4 maintain my initial recommendation of
5 10.25 percent. My prefiled rebuttal testimony also
6 responds to the substantive recommendations offered
7 by Mr. John R. Hinton, who testifies on behalf of
8 Public Staff, and Mr. Kevin O'Donnell, who
9 testifies on behalf of the Carolina Utilities
10 Customers Association in their direct testimonies.

11 Mr. Hinton's recommended ROE of 9.42 and
12 Mr. O'Donnell's recommended ROE of 9.00 percent are
13 insufficient because of their substantial and
14 exclusive reliance on their DCF model results
15 respectfully, which tends to understate the
16 investor-required return when market-to-book ratios
17 are in excess of 1.0 percent -- or 1.0.

18 In addition to the above, I address the
19 following issues common to Mr. Hinton's and
20 Mr. O'Donnell's direct testimonies: their selection
21 of their proxy group companies; their choice of
22 growth rates in their DCF models; their application
23 of the comparable earnings model, or CEM; and their
24 failure to reflect flotation costs.

1 Specific to Mr. Hinton's direct
2 testimony, I address the following: his application
3 of the RPM; his opinion that mechanisms in place
4 for the Company reduce risk; and the use of
5 interest coverage ratios to justify his recommended
6 ROE.

7 Specific to Mr. O'Donnell's testimony, I
8 address the following: His interpretation of
9 capital market conditions; his use of the plowback
10 ratio in his DCF model; and his application of his
11 CAPM.

12 In addition to addressing Mr. Hinton and
13 Mr. O'Donnell's direct testimonies, I address
14 Mr. Nicholas Phillip, Jr.'s direct testimony on
15 behalf of Carolina Industrial Group for Fair
16 Utility Rates IV regarding the use of authorized
17 ROEs as relevant benchmarks for the authorized ROE
18 in this case.

19 My prefiled settlement testimony
20 explains my support for the partial settlement as
21 it relates to ROE and capital structure. I explain
22 that the stipulated ROE of 9.60 percent is slightly
23 below the lower bound of my recommended range. And
24 while it still remains my position that, in a fully

1 litigated proceeding, a range from 9.70 percent to
2 12.83 percent would represent a reasonable and
3 appropriate measure of the Company's cost of
4 equity. I also recognize that the partial
5 settlements represent the give-and-take among
6 parties regarding multiple otherwise-contested
7 issues.

8 If it is the Company's determination
9 that the partial settlement is a constructive
10 resolution of the ROE and capital structure, I
11 appreciate and respect that decision.

12 My prefiled select -- settlement
13 testimony also explains the importance to rating
14 agencies of the regulatory environment support of
15 credit, and notes that North Carolina is generally
16 considered to have a constructive regulatory
17 environment. Since 2017, the average ROE for
18 natural gas distribution utilities across the
19 country has been 9.61, nearly identical to the
20 settlement ROE. Among jurisdictions that, like
21 North Carolina, is seen as having constructive
22 regulatory environments, the average ROE was
23 9.78 percent, 18 basis points above the settlement
24 ROE.

1 In view of returns authorized in
2 regulatory jurisdictions in general, and in
3 constructive regulatory jurisdictions such as
4 North Carolina, the settlement ROE is a somewhat
5 conservative measure of the Company's cost of
6 equity. Similarly, the 51.60 percent equity ratio
7 falls well within the range of those approved in
8 more constructive regulatory jurisdictions.

9 Lastly, I understand and appreciate the
10 Commission must apply its informed judgment at
11 arriving at its ROE determination in this and all
12 proceedings. I also appreciate, in the setting of
13 the Company's rates, the Commission must balance
14 the interest of the Company, customers, and
15 investors. And I appreciate that, in doing so, the
16 Commission considers the effect of changing
17 economic conditions on the Company's customers.

18 In my settlement testimony, I discuss
19 economic conditions in North Carolina and the
20 United States, which continues to support my
21 conclusion as presented in my prefiled direct
22 testimony, that the regional economic conditions in
23 North Carolina are substantially similar to those
24 in the rest of the country, such that the market

1 results of the nationwide proxy group remain
2 applicable to the Company.

3 That concludes the summary of my
4 testimonies.

5 Q. Thank you, Mr. D'Ascendis.

6 MR. JEFFRIES: Chair Mitchell,
7 Mr. D'Ascendis is available for cross and
8 Commission questions.

9 CHAIR MITCHELL: All right. Attorney
10 General's Office?

11 MS. FORCE: No questions.

12 CHAIR MITCHELL: Okay. All right. My
13 notes indicate that no other party has questions
14 for the witness, but I will just make sure before
15 we move on to Commission questions.

16 (No response.)

17 CHAIR MITCHELL: All right. I'm not
18 hearing any. So questions from Commissioners?

19 (No response.)

20 CHAIR MITCHELL: All right.

21 Mr. D'Ascendis, you are off the hook this morning.
22 All right, sir, you may step down.

23 Mr. Jeffries, do you intend to recall
24 the witness?

1 MR. JEFFRIES: We do not,
2 Chair Mitchell.

3 CHAIR MITCHELL: All right.
4 Mr. D'Ascendis, you may step down and be excused as
5 well. Thank you, sir.

6 THE WITNESS: Thank you. Have a good
7 day, everybody.

8 CHAIR MITCHELL: All right.
9 Mr. Jeffries, I'll take a motion from you.

10 MR. JEFFRIES: Thank you,
11 Chair Mitchell. We would move that Mr. D'Ascendis'
12 prefiled exhibits to his direct, rebuttal, and
13 settlement testimony be entered into evidence in
14 the docket.

15 CHAIR MITCHELL: All right. Hearing no
16 objection to your motion, Mr. Jeffries, it will be
17 allowed, and the exhibits to the direct, rebuttal,
18 and settlement testimony of Mr. D'Ascendis will be
19 accepted into the record.

20 (Exhibits DWD-1 through DWD-8, Rebuttal
21 Exhibit DWD-1 consisting of Schedules
22 DWD-1R through DWD-14R, and Settlement
23 Exhibit DWD-1, were admitted into
24 evidence.)

1 MR. JEFFRIES: Thank you,
2 Chair Mitchell.

3 CHAIR MITCHELL: All right. Piedmont,
4 you may call your next witness.

5 MR. JEFFRIES: Chair Mitchell, Piedmont
6 would call Ms. Pia Powers to the stand.

7 CHAIR MITCHELL: All right. Ms. Powers,
8 good morning, there you are. Raise your right
9 hand, please, ma'am.

10 Whereupon,

11 PIA K. POWERS,
12 having first been duly affirmed, was examined
13 and testified as follows:

14 CHAIR MITCHELL: All right,
15 Mr. Jeffries.

16 MR. JEFFRIES: Thank you.

17 DIRECT EXAMINATION BY MR. JEFFRIES:

18 Q. Good morning, Ms. Powers.

19 A. Good morning.

20 Q. Could you state your name and business
21 address for the record, please.

22 A. Sure. My name is Pia Katherina Powers. My
23 business address is 4720 Piedmont Row Drive, Charlotte,
24 North Carolina.

1 Q. And where do you work, Ms. Powers?

2 A. Piedmont Natural Gas.

3 Q. And what's your position at Piedmont?

4 A. My position is managing director of gas rates
5 and regulatory.

6 Q. All right. Are you the same Pia Powers that
7 prefiled direct testimony in this proceeding on
8 March 22, 2021, consisting of 24 pages and Exhibits
9 PKP-1 and PKP-2?

10 A. I am.

11 Q. And you're also the same Ms. Powers that
12 prefiled settlement testimony in this proceeding on
13 September 7, 2021, consisting of 15 pages, and
14 Settlement Exhibits PKP-1 and PKP-2, correct?

15 A. Correct.

16 Q. Do have you any corrections to your prefiled
17 testimony or exhibits?

18 A. I do not.

19 Q. If I asked you the same questions that are
20 set forth in your prefiled testimony while you were on
21 the stand today, would your answers be the same as are
22 reflected in your prefiled testimony?

23 A. Yes, they would.

24 Q. Thank you.

1 MR. JEFFRIES: Chair Mitchell, we'd move
2 that Ms. Powers' prefiled direct and prefiled
3 settlement testimony be entered into the record as
4 if given orally from the stand.

5 CHAIR MITCHELL: Hearing no objection,
6 Mr. Jeffries, to your motion, the prefiled
7 direct -- the testimony -- direct testimony of
8 Piedmont witness Powers prefiled in this docket on
9 March 22nd shall be copied into the record as if
10 delivered orally from the stand. In addition, the
11 settlement testimony of Piedmont witness Powers
12 prefiled in this docket on September 7th shall be
13 copied into the record as if delivered orally from
14 the stand.

15 (Whereupon, the prefiled direct
16 testimony and prefiled settlement
17 testimony of Pia K. Powers was copied
18 into the record as if given orally from
19 the stand.)
20
21
22
23
24

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Direct Testimony and Exhibits
of
Pia K. Powers**

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

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

2 A. My name is Pia K. Powers. My business address is 4720 Piedmont
3 Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am the Managing Director – Gas Rates & Regulatory for Piedmont
6 Natural Gas Company, Inc. (“Piedmont” or the “Company”). In this
7 capacity, I am responsible for a variety of regulatory matters
8 including the development and execution of all rate requests,
9 financial report filings and other filings and requests by Piedmont to
10 its state economic regulators.

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

12 A. I have a Bachelor of Arts degree in economics from Fairfield
13 University and a Master of Science degree in environmental and
14 resource economics from the University College London. Between
15 earning my degrees, I undertook a year of research and study in
16 Malta on economic development under a grant awarded by the
17 Fulbright U.S. Student Program. From 1999 through 2003, I was
18 employed as an Economist with the Energy Information
19 Administration, the statistical agency of the U.S. Department of
20 Energy, where I focused on international energy forecasting and
21 environmental issues. I was hired by Piedmont as a Regulatory
22 Analyst in 2003. In the time thereafter, I took on several roles of
23 increasing responsibility within the Company. In 2019, I assumed

1 my current position as Managing Director of Gas Rates &
2 Regulatory.

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

5 **A.** Yes. I have presented testimony before the North Carolina Utilities
6 Commission (“Commission” or “NCUC”), the Public Service
7 Commission of South Carolina, the Tennessee Public Utility
8 Commission and its predecessor the Tennessee Regulatory
9 Authority on a number of occasions.

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

11 **A.** The purpose of my testimony in this proceeding is to support
12 Piedmont’s petition and the rate relief sought therein. Specifically,
13 my testimony addresses the following subjects: (1) the nature and
14 scope of Piedmont’s revenue request in this proceeding; (2) the
15 impact of the revenue request on customers; (3) customer-
16 supportive actions that the Company has and continues to offer
17 during this unprecedented pandemic; (4) the public benefits inherent
18 in the continued operation of our Integrity Management Rider
19 (“IMR”) mechanism; (5) a proposed rider mechanism for the
20 Company’s ongoing recovery of expenditures for its customer
21 Energy Efficiency Programs; and (6) other proposed changes to
22 Piedmont’s Tariff, which consists of its various Rate Schedules and
23 Service Regulations.

1 **Q. Do any exhibits accompany your testimony?**

2 A. Yes. The following exhibits are part of my testimony:

3 Exhibit__(PKP-1) Tariff Changes in red-line format

4 Exhibit__(PKP-2) Tariff Changes in clean format

5 **Q. Were these exhibits prepared by you or under your direction?**

6 A. Yes.

7 **Piedmont's Revenue Request**

8 **Q. What is Piedmont's revenue request in this proceeding?**

9 A. Piedmont is requesting approval of revised rates in support of an
10 annual cost of service increase of approximately \$109 million in this
11 proceeding.

12 **Q. Can you provide some context for this level of revenue request?**

13 A. Yes. Our filed revenue request in this proceeding represents a
14 10.4% increase to operating revenues needed to cover the
15 Company's current level of cost for the continued provision of safe,
16 adequate and reliable natural gas service to the Company's
17 customers in North Carolina. Absent the proposed rate adjustment,
18 the Company would yield an insufficient overall rate of return of
19 5.54% and a return on equity of 6.92%. These returns are
20 significantly lower than the respective returns of 7.14% and 9.70%
21 upon which rates were established in Piedmont's last general rate
22 case.

23 These low returns, which drive the Company's need for the

1 10.4% increase in operating revenues, are predominantly a result of
2 the Company's incremental utility gas plant investment that has not
3 been eligible for recovery through the IMR mechanism since the
4 Company's last general rate case. Such incremental plant
5 investment amounts to approximately \$1.2 billion, and was required
6 to provide for the ongoing provision of reliable and safe natural gas
7 service to Piedmont's customers throughout North Carolina. In
8 other words, \$1.2 billion of the \$7.2 billion of Piedmont's pro forma
9 North Carolina plant in service in this proceeding is currently not
10 being recovered through current customer rates and charges, and
11 now needs to be incorporated into Piedmont's base rates.

12 **Impact of Revenue Request and Proposed Return on**

13 **Common Equity on Piedmont's Customers**

14 **Q. What will be the impact on customers of Piedmont's revenue**
15 **request and its proposed return on common equity in this**
16 **docket?**

17 **A.** Piedmont's revenue request in this docket, if granted without
18 modification, would increase Piedmont's annual revenue by
19 approximately \$95 per residential customer (or an average monthly
20 increase of just under \$8).¹ The Company recognizes that this is a

¹ Table 3 within the direct testimony of Piedmont witness Kally Couzens demonstrates that Piedmont is seeking to increase the annual revenue from the residential class of customers by approximately \$65.82 million. Piedmont has approximately 693,000 residential customers in North Carolina. Therefore, the requested revenue increase per residential customer is \$95 (= \$65.82 million ÷ 693,000 customers).

1 meaningful increase for our residential customers only two years
2 after our last rate case but it is necessary in order to allow the
3 Company to earn a reasonable return on invested capital. In
4 evaluating this increase, I think it is important to put the Company's
5 proposed revenue increase in context.

6 The costs to customers of natural gas service on Piedmont's
7 system previously peaked in 2008 when the commodity cost of
8 natural gas was regularly above \$10.00 per dekatherm. In the Fall
9 of 2008, the impact of dramatically lower natural gas costs began to
10 be felt as a result of natural gas production from shale being
11 delivered into the eastern United States. Since 2008, the price of
12 natural gas has been dramatically lower than it was prior to that time
13 – mostly in the \$2.00 to \$4.00 per dekatherm range. In the interim
14 period, this has allowed Piedmont to provide service to customers at
15 total costs below what they experienced in 2008 even after billions
16 of dollars of additional plant investment by the Company. We are
17 now approaching total annual costs for gas service that approximate
18 those that were incurred roughly 13 years ago. Thus, while the
19 revenue increase requested in this docket is meaningful, by historic
20 standards, the overall cost of natural gas service has been and
21 continues to be reasonable and remains at levels approximating
22 service provided more than a decade ago. I am not familiar with any
23 other essential utility service that can make a comparable claim.

1 I would also note that Piedmont has achieved significant
2 efficiencies in its annual operations and maintenance expenditures
3 since its merger with Duke Energy, which Piedmont's customers
4 benefit from through the ratemaking process in proceedings such as
5 this one.

6 **Q. How will Piedmont address any negative impacts of the**
7 **requested rate increase on its customers?**

8 A. Some of our customers struggle to pay our bills. We are aware that
9 any increase in rates will make that struggle more difficult. With
10 rate relief properly aligned to the Company's actual cost of service,
11 Piedmont is able to maintain the flexibility and wherewithal to
12 continue to offer and provide extended deferred payment options for
13 customers who are experiencing difficulty in meeting their payment
14 obligations. Piedmont also scrupulously abides by the
15 Commission's billing requirements, as well as its disconnection
16 procedures in the small number of cases where termination of
17 service for non-payment becomes necessary as a last resort measure.

18 **Q. What is the overall economic context to Piedmont's revenue**
19 **request and requested rate of return on common equity?**

20 A. Our requested rate of return on common equity is relatively low by
21 long-term historical standards and at the lower end of the indicated
22 range of common equity cost rates as shown in the direct testimony
23 of Piedmont witness Dylan D'Ascendis. As explained in his

1 testimony, although economic conditions in North Carolina
2 declined significantly in the second quarter of 2020 as a result of the
3 COVID-19 pandemic, they improved considerably in the third and
4 fourth quarters. North Carolina's unemployment rate and the rate in
5 the counties served by Piedmont have fallen significantly since
6 spiking in April 2020. While economic conditions remain uncertain,
7 North Carolina and the counties contained within Piedmont's
8 service area appeared to have fared better than the rest of the U.S.
9 during the COVID-19 pandemic.

10 **Q. Based on this context, do you believe that economic conditions**
11 **support Piedmont's requested rate of return on common equity**
12 **and its requested rate increase?**

13 A. Yes. Piedmont witness D'Ascendis reached the same conclusion in
14 Section VIII of his direct testimony. Having said that, I would also
15 emphasize that Piedmont's return on equity request in this docket is
16 at the lowest rate it has requested from the Commission in the last
17 30 years and, as I previously noted, is at the lower end of Piedmont
18 witness D'Ascendis' range based on uncertainty about the strength
19 and pace of recovery coming out of the pandemic.

20 **Increased Customer Support During this Pandemic**

21 **Q. Is the Company providing any additional support to its**
22 **customers in light of the financial challenges that some are**
23 **facing during the coronavirus pandemic?**

1 A. Yes. Piedmont responded at the start of the pandemic by voluntarily
2 instituting many of the measures that the Commission subsequently
3 mandated in terms of customer disconnection policy and the
4 assessment of late payment and other fees. The Company continues
5 to engage in proactive communications with its customers, using
6 multiple communication channels to advise them of the various
7 options they may pursue to alleviate the burden of the past due
8 balance on their account (not just their past due balance as of August
9 31, 2020, which was required to be accommodated by extended
10 payment arrangements per the Commission's July 29, 2020 Order
11 in Docket No. G-9, Sub 767) and opportunities to seek financial
12 assistance from agencies. The Company continues to offer all
13 customers a no-interest extended payment arrangement on their
14 present past due balance, and restructure payment arrangements that
15 some customers previously elected but now desire to lengthen to the
16 maximum offering and/or roll-in further past due amounts that have
17 accrued. For residential customers whose household is eligible to
18 receive assistance from the Low-Income Energy Assistance
19 Program ("LIEAP"), the Crisis Intervention Program ("CIP") or the
20 North Carolina Housing Opportunities and Prevention of Evictions
21 Program ("NC HOPE"), Piedmont voluntarily suspended
22 disconnections through March 31, 2021, offering new 12-month
23 extended payment arrangements for these customers for their past

1 due balance; Piedmont subsequently modified the arrangements for
2 these customers to 18-month extended repayment plans in
3 compliance with the Commission's February 23, 2021 Order in
4 Docket No. G-9, Sub 767.

5 In Fall 2020, after the Commission's lifting of the
6 moratorium on utilities for disconnection of service to customers for
7 non-payment of their bills, the Company approached the resumption
8 of service disconnections to customers for non-payment with
9 significant caution, care and as a measure of last resort for any
10 customer. The Company continues to approach it in this matter. For
11 example, in mid-November 2020, the Company recognized that it
12 did not have access to information that would comprehensively
13 identify which of its .7 million residential customers in North
14 Carolina applied for financial assistance from the NC HOPE
15 Program, which had recently been established to provide utility bill
16 assistance. Piedmont immediately and voluntarily suspended its
17 actions to disconnect service for non-payment to its North Carolina
18 residential customers until such time that Piedmont could identify
19 every residential customer account that was associated with a
20 request for assistance from the NC Hope Program. Completion of
21 that process took approximately four weeks, based upon applicant
22 information shared directly with the Company upon its request to
23 the NC HOPE Program. Whereas it was not known at that time

1 which of the customer applicants would ultimately be granted
2 assistance from the NC Hope Program, the Company chose to forgo
3 disconnecting any such customer until the NC HOPE Program fully
4 processed their application. As of March 15, 2021, Piedmont has
5 received NC Hope Program funds on behalf of 1,145 recipient
6 residential customers accounts amounting to a total of \$280,233.

7 It is the Company's desire for any customer who is eligible
8 for disconnection of their natural gas service due to non-payment, to
9 either make payment on their past due amount or enter into one of
10 the multiple extended payment arrangement offerings by the
11 Company. Either of these actions by the customer will avoid
12 disconnection of their natural gas service for non-payment. The
13 Company takes every reasonable communication measure to ensure
14 the customer is aware of and has the opportunity to request an
15 extended payment arrangement from the Company and to obtain
16 financial assistance from agencies prior to disconnecting service for
17 non-payment. Since the Company resumed disconnection of non-
18 payment to customers at the beginning of November 2020,
19 Piedmont has disconnected natural gas service to 1,994 residential
20 customer accounts for non-payment, compared to 3,843 during that
21 same period of time the year before.²

² Counts reflect the number of residential accounts that were disconnected for non-payment during the period of time covering November through February.

1 **Continuation of Piedmont's IMR Mechanism**

2 **Q. What is the status of Piedmont's IMR mechanism?**

3 A. Piedmont's IMR mechanism in its original form took effect on
4 January 1, 2014 pursuant to the Commission's Order in Piedmont's
5 2013 general rate case.³ It was modified in 2015.⁴ In its Order
6 issued October 30, 2019 in Docket No. G-9, Sub 743 ("2019 Rate
7 Case Order"), the Commission approved a stipulation that provided
8 for the continuation of Piedmont's IMR mechanism, including
9 certain additional modifications to the computation of the net IMR
10 revenue requirement, effective November 1, 2019.⁵ The IMR
11 mechanism, which is set within Piedmont's Tariff in Appendix E of
12 Piedmont's North Carolina Service Regulations, states in paragraph
13 11 that the terms and conditions of the IMR mechanism shall be
14 reviewed, and prospective modifications considered by the
15 Commission the earlier of four years or the Company's next general
16 rate case. Piedmont is requesting as part of this general rate case that
17 it be allowed to continue operation of the IMR mechanism for an
18 additional four-year term.

19 **Q. Can you provide an overview of why you believe that a**

³ See the Commission's December 17, 2013 *Order Approving Partial Rate Increase and Allowing Integrity Management Rider* in Docket No. G-9, Sub 631.

⁴ See the Commission's November 23, 2015 *Order Approving Stipulation* in Docket Nos. G-9, Sub 631 and Sub 642.

⁵ See paragraph 9 of the Stipulation filed in Docket No. G-9, Sub 743 on August 13, 2019. The Stipulation was approved by the Commission in their October 31, 2019 *Order Approving Stipulation, Granting Partial Rate Increase, Line 434 Revenue Rider, EDIT Riders, Provisional Revenue Rider, and Requiring Customer Notice* in Docket No. G-9, Sub 743.

1 **continuation of the IMR mechanism is in the public interest?**

2 A. Yes. As the Commission is well aware and as is supported in the
3 testimony of Piedmont witness Brian Weisker, Piedmont has made
4 capital investments in its system of more than a \$365.9 million⁶
5 since its last general rate case (from 6/30/2019 to 12/31/2020) in its
6 efforts to comply with the federal Pipeline and Hazardous Materials
7 Safety Administration (“PHMSA”) Transportation Integrity
8 Management Plan (“TIMP”) and Distribution Integrity
9 Management Plan (“DIMP”) requirements. Piedmont has also
10 needed to make extraordinary system strengthening and growth-
11 driven capital investments in its system over this same period of
12 time, which are investments other than those driven by compliance
13 with PHMSA’s federal safety and system integrity requirements.
14 These other capital investments, which were not eligible for
15 recovery through the IMR mechanism, ultimately gave rise to the
16 Company’s need to request rate relief two years after the Company’s
17 last general rate case. Nevertheless, the Company’s PHMSA
18 compliance-related capital investment were necessary and
19 significant, and will continue to be so over the next several years.
20 The continued operation of the IMR mechanism permits Piedmont
21 an opportunity to begin recovering and earning a return on most of

⁶ Amount reported in Schedule 1 of the Company’s IMR Monthly Report for December 2020 filed in Docket No. G-9, Sub 642 on February 15, 2021.

1 its PHMSA compliance-related capital investment, and will mitigate
2 the financial pressure on the Company to file for general rate relief
3 with frequency going forward. General rate cases come at a
4 significant cost, typically in excess of a million dollars each, in rate
5 case expense – not to mention the time and administrative burden
6 on all parties (including the Commission) associated with preparing,
7 prosecuting, and resolving each such case. I believe that the public
8 interest inherent in the reduced frequency of general rate cases is
9 compelling.

10 **Q. Does Piedmont expect to continue to experience significant**
11 **amounts of capital investment in PHMSA compliance going**
12 **forward?**

13 A. Yes. As is reflected in Exhibit_(BRW-2) accompanying Piedmont
14 witness Weisker's testimony, the ongoing level of integrity
15 management capital investment is expected to vary between
16 approximately \$188 million and \$417 million per year over the next
17 three years. Based upon these projections, we believe that the same
18 factors that supported the operation of the IMR over the last seven
19 years continue to support its operation over the next four years and
20 we respectfully request that the Commission approve such
21 continuation in this docket.

22 **Q. Do you have anything else to add to your testimony regarding**
23 **the IMR mechanism?**

1 A. Yes. In order to update our existing IMR mechanism, we have
2 proposed certain necessary updates for the IMR to properly function
3 prospectively. These updates are discussed later in my testimony
4 along with other proposed changes to Piedmont's Tariff.

5 **Rider Mechanism for Energy Efficiency Program Cost Recovery**

6 **(Proposed Appendix H to Piedmont's Tariff)**

7 **Q. Is Piedmont proposing in this proceeding to change the method**
8 **by which it recovers costs for the operation of its Energy**
9 **Efficiency Programs for customers?**

10 A. Yes. At present, the cost associated with Piedmont's operation of
11 its Energy Efficiency Programs for its North Carolina customers is
12 recovered through its base rates. Piedmont has been operating three
13 customer Energy Efficiency Programs in North Carolina for over 10
14 years. Piedmont's current base rates were established in the
15 Company's last general rate proceeding, where the approved cost of
16 service included \$1.275 million of expense for the operation of its
17 Energy Efficiency Programs for its North Carolina customers. The
18 Company proposes in this proceeding to modify the method by
19 which it recovers Energy Efficiency Program expenses. In lieu of
20 base rate recovery, Piedmont requests that effective November 1,
21 2021 this operating expense be recovered through a separate rider
22 mechanism. A description of this new rider mechanism is shown in
23 proposed Appendix H of Piedmont's North Carolina Service

1 Regulations, which is included in the proposed Tariff changes
2 shown in Exhibit_(PKP-1) and Exhibit_(PKP-2).

3 **Q. Why is Piedmont proposing to recover the ongoing expense for**
4 **operation of its Energy Efficiency Programs for customers**
5 **through a separate rider instead of through base rates going**
6 **forward?**

7 A. Going forward, there will likely be more variability to the annual
8 expense that Piedmont incurs to operate its NC Energy Efficiency
9 Programs. Piedmont has recently requested approval from the
10 Commission, in Docket No. G-9, Sub 786, to amend one of its
11 existing Energy Efficiency Programs and to operate three additional
12 Energy Efficiency Programs (“EE Program Request”).⁷ Should the
13 Company’s EE Program Request be approved by the Commission,
14 the annual expense of operating its suite of six Energy Efficiency
15 Programs is expected to range from \$2.8 million to \$4.5 million per
16 year during the next five years.⁸ Variability in the expected total
17 annual expense is inherent to the process of ramping up new,
18 incremental programs, setting up an evaluation, measurement and
19 verification plan for the programs, and considering uncertain
20 customer demand for program incentives that is often experienced

⁷ See the Request for Modifications to Existing Energy Efficiency Program and for Approval of New Energy Efficiency Program (“EE Program Request”) filed with the Commission on March 19, 2021 in Docket No. G-9, Sub 786.

⁸ See Exhibit A of Piedmont’s EE Program Request.

1 without a regular, predictable cadence.

2 Base rate recovery makes sense when there is a reasonable
3 degree of certainty about the going level expense amount, which is
4 often talked about in terms of being a known and measurable
5 amount. With respect to the Company's Energy Efficiency
6 Programs for its customers, there is a reasonable degree of certainty
7 that there will be significant variability in the annual expense year-
8 over-year for the foreseeable future. Recovering the actual Energy
9 Efficiency Program expenses through a rider mechanism in lieu of
10 base rates supports the Company's continued, uninterrupted
11 operation of these customer programs and would ensure that the
12 program expenses are ultimately neither over- nor under-recovered.

13 In the event that the Commission does not accept the
14 Company's rider proposal in Appendix H, Piedmont requests
15 Commission approval for regulatory asset treatment for its Energy
16 Efficiency Program expenses effective November 1, 2021.
17 Regulatory asset treatment would be an alternative method to ensure
18 that the Energy Efficiency program expenses are ultimately neither
19 over- nor under-recovered, albeit inferior to the rider method
20 because regulatory asset treatment may lead to larger swings in
21 customer bills due to less frequent true-up of the deferred balance
22 compared to the rider mechanism.

23 **Q. Please describe the operation of the Energy Efficiency Program**

1 **rider proposed in Appendix H of the Company's North Carolina**
2 **Service Regulations.**

3 A. The Company proposes to defer all Energy Efficiency Program
4 expenses starting November 1, 2021. The Energy Efficiency
5 Program rider rates would be set to \$0.00000 per therm effective
6 November 1, 2021. On or before May 15, 2022, Piedmont will file
7 with the Commission a report of the Energy Efficiency Program
8 expenses deferred through March 31, 2022. The May 15, 2022
9 filing will also include proposed customer billing rates (rates per
10 therm) for this rider, designed to recover the March 31, 2022
11 deferred account balance, including accrued interest, over the
12 twelve-month period beginning June 1, 2022. For computation of
13 such proposed rider rates, the March 31, 2022 deferred account
14 balance will be allocated to each rate schedule in alignment with the
15 allocation of base margin revenues as set by the final Commission
16 order in this proceeding. Annualized throughout for each rate
17 schedule underlying the proposed volumetric rider rates will also be
18 identical to that approved by the Commission for volumetric rates
19 in this general rate proceeding. Each month beginning June 2022,
20 Piedmont will record to the Energy Efficiency Program expense
21 deferred account incremental deferred program expenses net of the
22 rider revenue collections from customers. Each year thereafter on
23 or before May 15, the Company will file to update the rider rates

1 effective the following June 1 based on the prior March 31 deferred
2 account balance. Furthermore, Piedmont proposes to file monthly
3 reports with the Commission detailing the activity in the Energy
4 Efficiency Program deferred account.

5 **Q. Does Piedmont expect that the Public Staff will review and audit**
6 **the Company's operation of Appendix H, including the**
7 **prudence of the deferred Energy Efficiency Program expenses**
8 **and accuracy of the Company's March 31 deferred account**
9 **balances used for rate setting?**

10 A. Yes. I envision that any audit adjustments that the Public Staff may
11 recommend for a review period (an annual period ending March 31)
12 could be documented in their audit report and filed for approval with
13 the Commission. Any such audit adjustments approved by the
14 Commission could then be rolled-into the March 31 balance next
15 used for rate setting under the rider. This recommended process is
16 similar to how the Public Staff currently audits the Company's IMR
17 mechanism, which I believe has been an effective and efficient
18 process for both parties.

19 **Other Changes to Piedmont's Tariff**

20 **Q. In addition to proposed Appendix H to the Company's North**
21 **Carolina Service Regulations discussed above, is Piedmont**
22 **proposing any other changes to its North Carolina Tariff?**

23 A. Yes. The Company is proposing a handful of changes to streamline

1 the Tariff, namely for the purpose of removing outdated,
2 duplicative, incorrect or unnecessary terminology and references,
3 updating forms, eliminating dormant Rate Schedules, and clarifying
4 internal procedures. The proposed changes to Piedmont's Tariff are
5 shown in red-line and clean format in Exhibit_(PKP-1) and
6 Exhibit_(PKP-2), respectively. The Tariff changes other than
7 proposed Appendix H, which has been previously explained in my
8 testimony above, are summarized as follows:

9 1) Rate Schedule 107: The main changes are the elimination
10 of the obsolete reference to Standby Sales Service, which no longer
11 exists as part of Rate Schedule 113, and the update of the Agency
12 Authorization Form including the Company's current contact
13 information.

14 2) Rate Schedules 113 and 114: The main change is the
15 insertion of the requirement that service under these two Rate
16 Schedules is contingent upon the Company's installation of
17 telemetering equipment that reports daily consumption. This
18 change is simply for transparency of the requirement within the
19 Company's Tariff. Such telemetering equipment continues to be
20 needed by the Company in order to properly operate its system,
21 render accurate bills to the customer and their agent, and enforce
22 other provisions within its existing Tariff. Such telemetering
23 equipment is already in place for all customers currently served

1 under this Rate Schedule.

2 3) Rate Schedules 12 and T-12: The Company proposes that
3 these two Rate Schedules be eliminated. No customers will be
4 impacted by this change because no customers were provided or
5 billed for service under either of these two Rate Schedules during
6 the Test Period, in several years prior to the Test Period, or in the
7 period of time since the Test Period. For this reason, I do not find
8 this proposed change to be material. Since there were no costs
9 incurred nor revenues recorded in the Test Period associated with
10 this Rate Schedule, it was not necessary for the Company to include
11 a pro forma adjustment for this change in its cost of service
12 computation in the proceeding.

13 4) Rate Schedule 143: One proposed change in this Rate
14 Schedule is to remove reference to Rate Schedules 12 and T-12,
15 since the Company intends to eliminate these two Rate Schedules
16 for the previously explained reason. The other proposed change is
17 to remove reference to the outdated provision for this Rate Schedule
18 to remain in effect for a period of two years after which continuation
19 of service under this Rate Schedule requires Commission action.
20 This Rate Schedule, including the provision for the original two-
21 year review, took effect on March 28, 2014 pursuant to the
22 Commission authorization granted in Docket No. G-9, Sub 631. The
23 Company subsequently requested authorization to continue the

1 provision of service under this Rate Schedule after the original two-
2 year period, and such relief was ultimately granted by the
3 Commission pursuant to its February 7, 2017 Order (“2017 Order”)
4 in Docket No. G-9, Sub 631. In addition to the authorization for the
5 Company’s continued provision of service under this Rate Schedule,
6 the 2017 Order required that in Piedmont’s next general rate case
7 the rates for all customer classes including natural gas vehicular fuel
8 (“NGV”) services, be evaluated based on the results of an allocated
9 cost of service study and other rate design factors. This requirement
10 was met in Docket No. G-9, Sub 743, Piedmont’s 2019 general rate
11 case. No changes or additional conditions on Piedmont’s provision
12 of service under Rate Schedule 143 occurred as a result of Docket
13 No. G-9, Sub 743. Accordingly, Piedmont now seeks to remove this
14 outdated, obsolete provision from this Rate Schedule.

15 5) Appendix B of Piedmont’s Service Regulations: The
16 proposed changes are administrative in nature – to correct
17 typographical errors related to a defined term in Piedmont’s Service
18 Regulations, and to clarify the Company’s internal procedures. The
19 latter change was proposed in the Company’s 2019 general rate
20 case; no party objected to that proposed change, however due to an
21 oversight it was not captured in the settlement agreement that was
22 ultimately approved by the Commission in that proceeding.

23 6) Appendix E of Piedmont’s Service Regulations: One

1 proposed change in this Rate Schedule is to remove reference to
2 Rate Schedules 12 and T-12, since the Company intends to eliminate
3 these two Rate Schedules for the previously explained reason. The
4 other proposed changes are to update the Special Contract Credit
5 amounts, the allocation factors and the annual billing determinants,
6 as is necessary for this IMR mechanism with each new general rate
7 case proceeding.

8 **Q. Does Piedmont's recently filed petition seeking approval for new**
9 **Appendix G to its North Carolina Service Regulations impact**
10 **the relief requested by the Company in this general rate case**
11 **proceeding?**

12 A. No. Piedmont is requesting approval of Appendix G to its North
13 Carolina Service Regulations in a separate docket (Docket No. G-9
14 Sub 784) that was filed with the Commission on March 15, 2021.
15 Proposed Appendix G therein describes an elective program
16 offering for Piedmont's residential and small general service
17 customers to mitigate the carbon footprint impact of their natural gas
18 usage. No aspect of the prospective operation of Appendix G
19 contributes to the requested rate increase being sought by the
20 Company in this general rate case, or otherwise impacts the cost of
21 service computation or other matters in this general rate case.

22 **Q. Are there any other Tariff changes that you are proposing in**
23 **this proceeding?**

1 A. No. However, I want to acknowledge and bring closure to one
 2 Tariff-related matter, namely the “Line 434 Revenue Rider” that is
 3 discussed in paragraph 31 of the Stipulation that was approved by
 4 the Commission in Piedmont’s 2019 Rate Case (Docket No. G-9,
 5 Sub 743).⁹ In that Stipulation, it states the following:

6 With regard to any demand charges that may begin
 7 to be recovered by Piedmont subsequent to the
 8 effective date of the rates approved in this case
 9 related to Line 434, but before the effective date of
 10 the next general rate case, Piedmont agrees that it
 11 will begin contemporaneously flowing through such
 12 revenues to reduce the rates of its customers through
 13 a separate rate rider (Line 434 Revenue Rider). For
 14 purposes of the rates made effective as part of this
 15 proceeding, the Line 434 Revenue Rider (including
 16 all related billing factors) will be initially set to
 17 \$0.0000 per dt. Piedmont shall make a filing with the
 18 Commission setting forth and requesting approval of
 19 the Line 434 Revenue Rider it proposed to put in
 20 place to flow through such revenues to its customers.
 21 These rates shall be based on the rate class margin
 22 percentages approved in the IMR mechanism.
 23 Piedmont and the Public Staff shall consult with each
 24 other regarding the calculation and determination of
 25 the Line 434 Revenue Rider billing factors prior to
 26 and at the times Piedmont filed for any changes to
 27 those factors. The Line 434 Revenue Rider
 28 established in this proceeding shall remain in effect
 29 until such time as it can be incorporated into base
 30 rated in the first general rate case proceeding after
 31 beginning of the receipt of demand charges. The
 32 appropriateness and necessity of continuing,
 33 modifying, replacing, or eliminating the Line 434
 34 Revenue Rider shall be considered in said general
 35 rate case.
 36

⁹ See the Stipulation filed in Docket No. G-9, Sub 743 on August 13, 2019. The Stipulation was approved by the Commission in their October 31, 2019 *Order Approving Stipulation, Granting Partial Rate Increase, Line 434 Revenue Rider, EDIT Riders, Provisional Revenue Rider, and Requiring Customer Notice* in Docket No. G-9, Sub 743.

1 To date, Piedmont has not billed nor otherwise recovered any
2 demand charges related to Line 434. For this reason, Piedmont has
3 had no cause to make a subsequent filing with the Commission
4 seeking to amend the Line 434 Revenue Rider from its initial rate of
5 \$0.0000 per dekatherm set in Docket No. G-9, Sub 743. The
6 cancellation of the Atlantic Coast Pipeline eliminated the
7 opportunity for Piedmont to recover demand charges related to Line
8 434. Furthermore, Line 434 continues to be used and useful in the
9 provision of reliable natural gas service to Piedmont's customers.
10 Since there is no longer a practical need to have a Line 434 Revenue
11 Rider, Piedmont requests that the Commission eliminate this Rider,
12 including eliminating the need for any further reference in future
13 reporting to the Commission of the \$0.0000 per dekatherm Line 434
14 Revenue Rider rate.

15 **Q. Do you have anything further to add to your testimony?**

16 **A.** No, not at this time. Thank you.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Settlement Testimony and Exhibits
of
Pia K. Powers**

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

1 **Q. Ms. Powers, please state your name and business address.**

2 A. My name is Pia K. Powers. My business address is 4720 Piedmont Row
3 Drive, Charlotte, North Carolina.

4 **Q. Are you the same Pia K. Powers who prefiled direct testimony in this**
5 **docket on March 22, 2021?**

6 A. Yes, I am.

7 **Q. What is the purpose of your Settlement Testimony in this proceeding?**

8 A. My Settlement Testimony explains the economic adjustments to
9 Piedmont's filed case¹ as reflected in the Stipulation of Partial Settlement
10 ("Stipulation") between Piedmont and the Public Staff - North Carolina
11 Utilities Commission ("Public Staff"), the Carolina Utility Customers
12 Association, Inc. ("CUCA"), and the Carolina Industrial Group for Fair
13 Utility Rates IV ("CIGFUR IV") (together, the "Stipulating Parties"). My
14 Settlement Testimony also addresses certain other components of the
15 Stipulation.

16 **Q. Do you have any exhibits supporting your testimony?**

17 A. Yes. I have two. Settlement Exhibit__(PKP-1) is a reconciliation chart
18 identifying the settled adjustments to Piedmont's rate increase request,
19 wholly excluding the estimated amounts for the Company's Robeson LNG
20 and Pender-Onslow projects. Settlement Exhibit__(PKP-2) is a similar
21 reconciliation chart, although it is inclusive of the estimated impact of
22 these projects.

¹ Including Piedmont's rate case Update Filing to the NCUC on July 28, 2021.

1 **Q. Was this exhibit prepared by you or under your direction and**
2 **supervision?**

3 A. Yes.

4 **Q. Can you explain how the Public Staff pursued its investigation in this**
5 **matter?**

6 A. Following the filing of our Application and supporting testimony, the
7 Public Staff engaged in substantial discovery regarding our filing. This
8 included more than 840 individual data requests (not counting parts and
9 subparts) in 137 sets of discovery requests. When Piedmont filed its cost-
10 of-service update on July 28, 2021 (“Update Filing”), the Public Staff also
11 engaged in a due diligence review of the Update Filing.

12 **Q. How did the Public Staff and Piedmont go about pursuing settlement**
13 **discussions in this case?**

14 A. We met with the Public Staff via video conference on several occasions to
15 explore and vet mutually agreeable terms for a settlement. Our initial
16 discussions were aimed at making sure we had a common understanding
17 of our respective litigation positions and filed testimony. After we
18 completed these discussions, we moved on to substantive settlement
19 negotiations and we were able to reach agreement on several issues in this
20 case between Piedmont and the Public Staff. This agreement is reflected
21 in the Stipulation filed concurrently with this testimony.

22 **Q. Has Piedmont attempted to reach a settlement with the other parties**
23 **to this case?**

1 A. Yes. We have held discussions with CUCA and CIGFUR IV in an effort
2 to obtain their consent to join in the settlement and we were able to do so
3 after reaching a proposed rate design that is acceptable to all. We did not
4 reach out to the Attorney General, NUCOR or the Fayetteville Public
5 Works Commission as these parties did not file testimony in this
6 proceeding.

7 **Q. Do you believe the settlement with the Public Staff is in the public**
8 **interest and otherwise just and reasonable?**

9 A. Yes. The Stipulation results in substantial economic benefits to our
10 customers through the cost reductions agreed to with the Public Staff. It
11 also avoids the expenditure of assets that would otherwise be necessary to
12 litigate each of the contested issues in this docket and provides greater
13 certainty of outcome to the Stipulating Parties.

14 **Q. Can you provide a brief overview of the revenue impact associated**
15 **with the Stipulation?**

16 A. Yes. The main revenue impact of the Stipulation pertains to the
17 adjustment of Piedmont's base margin revenues. The Stipulation shows
18 that base margin revenue in two ways – excluding the Robeson LNG and
19 Pender-Onslow projects (Settlement Exhibit A1), as well as inclusive of
20 the estimated amounts for the Robeson LNG and Pender-Onslow projects
21 (Settlement Exhibit A2). Settlement Exhibit_(PKP-1) and Settlement
22 Exhibit_(PKP-2) are aligned with Settlement Exhibits A1 and A2,
23 respectively. Exclusive of the Robeson LNG and Pender-Onslow projects,

1 the settled base margin revenue requirement increase is approximately
2 \$34.1 million, which is shown on Line 46 of Settlement Exhibit_(PKP-1).
3 Inclusive of the estimated amount of the Robeson LNG and Pender-
4 Onslow projects, the settled base margin revenue requirement increase
5 would be approximately \$67.1 million, which is shown on Line 46 of
6 Settlement Exhibit_(PKP-2).

7 There are two other revenue impacts associated with the
8 Stipulation. The first impact pertains to cost of gas (“COG”) revenues.
9 The Stipulation calls for a change to the base COG revenues, which are
10 reflected identically on Lines 47 thru 49 on each of my settlement
11 exhibits. The effect of the settled change to the base COG revenues is an
12 increase of \$6,931,287. The base COG revenue adjustment has no direct
13 impact to Piedmont’s earnings. Rather, the purpose of the adjustment is to
14 better align Piedmont’s going-level COG expense with its base COG
15 revenues, all of which may also be further modified as needed pursuant to
16 the procedures for rate adjustments set forth under G.S. 62-133.4 and
17 Appendix A of Piedmont’s North Carolina Service Regulations.

18 The second impact is a flow-thru update pertaining to the riders
19 established in Piedmont’s last general rate case² for the refund to
20 customers of excess deferred income taxes (“EDIT”). The amortization
21 period for two of the three EDIT riders established in Piedmont’s last
22 general rate case has not yet concluded – specifically, the riders to refund

² Docket No. G-9, Sub 743

1 to customers unprotected federal EDIT and state EDIT are set to conclude
2 on October 31, 2024 and October 31, 2022, respectively. The Company's
3 approved overall rate of return was a component used in the calculation of
4 annual revenue requirement impact for each of these two EDIT riders in
5 the Company's last general rate case. Since the outcome of this current
6 general rate case will modify Piedmont's approved overall rate of return,
7 the Stipulation updates these two EDIT riders over their remaining
8 amortization periods for the effect of the stipulated overall rate of return.
9 The total annual refund to customers for unprotected federal EDIT was
10 updated to \$(25,562,970) as shown on Line 51 of each of my settlement
11 exhibits, which is a difference of \$(2,258,701) from the approved amount
12 in the Company's last rate case. The total annual refund to customers for
13 state EDIT was updated to \$(22,201,275) as shown on Line 52 of each of
14 my settlement exhibits, which is a difference of \$(1,466,121) from the
15 approved amount in the Company's last rate case.

16 **Q. What is the expected revenue impact associated with the Stipulation**
17 **once updated for the actual cost of the Robeson LNG and Pender-**
18 **Onslow projects as of August 31, 2021?**

19 A. The Company's accounting books and records for the month of August
20 2021 will be finalized within a few days. For this timing reason, it was
21 not feasible to incorporate the effect of the August 31, 2021 "actuals" for
22 these two projects into Settlement Exhibit_(PKP-2) nor the exhibits
23 supporting the Stipulation. Nevertheless, the revenue impact of

1 incorporating the actual Robeson LNG and Pender-Onslow costs as of
2 August 31, 2021 is expected to be very close to that shown in Settlement
3 Exhibit__(PKP-2). In other words, it is expected to yield a stipulated
4 margin revenue increase between approximately \$67 million and \$68
5 million.

6 **Q. Please explain the adjustments to Piedmont's cost of service as agreed**
7 **to in the Stipulation, and the associated impact to the margin revenue**
8 **requirement.**

9 A. The individual cost of service adjustments are identified on my settlement
10 exhibits attached hereto and represent, in aggregate, a downward
11 adjustment from Piedmont's proposed annual margin revenues in its
12 Update Filing. The cumulative impact to margin revenues of each of these
13 cost of service adjustments is shown on Line 45 of each of my settlement
14 exhibits. Excluding the Robeson LNG and Pender-Onslow projects, the
15 Stipulation includes approximately (\$62.7 million) of cost of service
16 adjustments impacting base margin revenues. Including the Robeson
17 LNG and Pender-Onslow projects, the Stipulation includes approximately
18 (\$29.7 million) of cost of service adjustments impacting base margin
19 revenues.

20 The individual cost of service adjustments in the Stipulation can be
21 categorized as follows:

22 1. Capital Structure and Cost of Capital. The Stipulating
23 Parties agreed that the appropriate capital structure for use in this

1 proceeding consists of 51.60% common equity, 47.75% long-term debt,
2 and 0.65% short-term debt. The agreed cost of long-term debt is 4.08%
3 and the agreed cost of short-term debt is 0.20%. The agreed return on
4 common equity appropriate for use in this proceeding is 9.60%. These
5 modifications resulted in a downward adjustment to Piedmont's margin
6 revenue requirement of approximately (\$22.7 million), which is
7 represented on both of my settlement exhibits as the sum of Lines 4 thru 7.

8 2. Other Operating Revenues. The Stipulating Parties agreed
9 to use in the cost of service computation an increased level of pro forma
10 other operating revenues. This settlement modification resulted in a
11 downward adjustment to Piedmont's margin revenue requirement of
12 approximately (\$1.9 million), which is represented on both of my
13 settlement exhibits on Line 14.

14 3. Employee Compensation. The Stipulating Parties agreed to
15 remove certain employee compensation costs for ratemaking, including a
16 portion of executive payroll, and certain incentive pay. Adjustments were
17 also agreed upon regarding the going-level cost of the remaining payroll
18 expense, pension, health insurance expense and other employee benefits.
19 These modifications resulted in a downward adjustment to Piedmont's
20 margin revenue requirement of approximately (\$2.4 million), which is
21 represented on both of my settlement exhibits as the sum of Lines 18 thru
22 20, 23 and 24.

1 4. Amortization of Certain Regulatory Assets and Rate Case
2 Expense. The Stipulating Parties agreed to amortize all previously
3 authorized regulatory asset end of period balances (comprised of Pipeline
4 Integrity Management-Transmission (“PIM-T”) deferred expenses,
5 Pipeline Integrity Management-Distribution (“PIM-D”) deferred expenses,
6 Eastern NCNG deferred O&M expenses, environmental compliance
7 assessment and clean-up deferred expenses, and regulatory fee deferred
8 expenses) over a period of four years in each case. The Stipulating Parties
9 also agreed to the Company’s estimate of rate case expense for this
10 proceeding, to be amortized over four years along with the removal of the
11 unamortized deferred balance of the rate case expenses from the
12 Company’s last general rate case. On these matters, including the level of
13 each deferred balance included in the working capital components of rate
14 base, the Stipulation resulted in a downward adjustment to Piedmont’s
15 margin revenue requirement of approximately (\$0.2 million). This is
16 represented on both of my settlement exhibits as the sum of Lines 25, and
17 30 thru 34.

18 5. Non-Utility Adjustment. The Stipulating Parties agreed to
19 include a non-utility adjustment for ratemaking, comprised of amounts of
20 operating expense and rate base, that was greater than the Company’s
21 proposed non-utility adjustment. Accordingly, the Stipulation resulted in
22 a downward adjustment to Piedmont’s margin revenue requirement of

1 approximately (\$0.5 million), which is represented on both of my
2 settlement exhibits on Line 29.

3 6. Other Expenses. The Stipulating Parties agreed to a variety
4 of adjustments to other expenses for ratemaking that encompassed the
5 following categories of expense: sponsorships and donations, inflation,
6 lobbying, uncollectibles, Board of Directors, interest on customer deposits,
7 regulatory fee, non-recurring COVID-related expenses incurred during the
8 test period, and certain aviation and advertising costs. These
9 modifications taken together resulted in a downward adjustment to
10 Piedmont's margin revenue requirement of approximately (\$2.7 million),
11 which is represented on both of my settlement exhibits as the sum of Lines
12 21, 22, 26 thru 28, and 35 thru 40.

13 7. Plant, Accumulated Depreciation, Accumulated Deferred
14 Income Taxes, Depreciation Expense and other Related Adjustments
15 including those associated with the Robeson LNG and Pender-Onslow
16 projects. The Stipulating Parties agreed to several changes to Piedmont's
17 rate base in the Stipulation, including ratemaking adjustments for the
18 amortization of protected EDIT as updated for the current ARAM rate.
19 Other rate base-related adjustments include an alignment of depreciation
20 expense and accumulated depreciation with the stipulated plant in service
21 balance, and an alignment of property tax with the settled changes to rate
22 base net of non-utility adjustments, and an alignment of lead/lag to with

1 all other stipulated adjustments. Exclusive of the Robeson LNG and
2 Pender-Onslow projects, these settlement modifications resulted in a
3 downward adjustment to Piedmont's revenue requirement of
4 approximately \$(32.2 million), which is represented on Settlement
5 Exhibit__(PKP-1) as the sum of Lines 8, 9, 11, 12, 16, 17 and 41 thru 44.
6 Inclusive of the Robeson LNG and Pender-Onslow projects, these
7 settlement modifications are estimated to result in an upward adjustment
8 to Piedmont's revenue requirement of approximately \$0.8 million, which
9 is represented on Settlement Exhibit__(PKP-2) as the sum of Lines 8, 9, 11,
10 12, 16, 17 and 41 thru 44.³

11 **Q. Did Piedmont expressly agree with each of the component**
12 **adjustments in the Stipulation?**

13 A. No. In fact, Piedmont strongly disagreed with many of these adjustments
14 on an individual basis and the Public Staff likewise opposed many of these
15 adjustments in isolation. In order to reach settlement, however, Piedmont
16 and the Public Staff both compromised on a large number of individual
17 issues in order to reach an overall accommodation in this case. The
18 settlement was arrived at as a whole and, as the Stipulation indicates, each

3 The main cost of service effect of the exclusion of the Robeson LNG and Pender-Onslow projects is shown on Lines 8 and 16 of my settlement exhibits. Piedmont's Update Filing requested an approximate \$96.9 million annual margin revenue requirement increase, which included the Robeson LNG and Pender-Onslow projects (as estimated) in rate base and operating expense. Showing the Stipulated margin revenue requirement increase inclusive of the Robeson LNG and Pender-Onslow projects (as estimated) comports with the sum of the settlement adjustments shown on Lines 8 and 16 of Settlement Exhibit__(PKP-2).

1 individual adjustment may not have been agreeable to all parties
2 participating in this settlement. However, when considered as a whole, the
3 totality of the adjustments was acceptable to each of the Stipulating
4 Parties. For this reason, the Stipulating Parties agree that no precedent is
5 intended to be established by the individual adjustments or component
6 provisions of the Stipulation but that each would support the Stipulation as
7 a whole before the Commission as a reasonable resolution of Piedmont's
8 rate case filing.

9 **Q. Do you believe that the overall settlement reached by the parties and**
10 **presented to the Commission is just and reasonable and otherwise**
11 **compliant with the requirements of North Carolina law?**

12 A. Yes, I do.

13 **Q. Does the Stipulation address any non-economic issues and/or or**
14 **economic issues other than the cost of service adjustments underlying**
15 **the stipulated revenue requirement increase?**

16 A. Yes, there are several. The Stipulation calls for the continuation of the
17 Integrity Management Rider ("IMR") mechanism. The Stipulation calls
18 for approval of Piedmont's proposed modifications to its Tariff, namely
19 the elimination of Rate Schedules 12 and T-12, and modifications to Rate
20 Schedules 107, 113, 114 and 143. The Stipulation calls for termination of
21 the Line 434 Revenue Rider, since the cancellation of the Atlantic Coast
22 Pipeline eliminated the need for the operation/existence of this rider. The
23 Stipulation also calls for approval of Piedmont's proposed modifications

1 to its Service Regulations, namely modifications to Appendix B
2 (Customer Agent Agreement) and Appendix E (IMR mechanism). Note
3 that several factors in the Appendix E of the Company's Service
4 Regulations need to align to the stipulated revenues and throughput by rate
5 class and will accordingly be updated and filed with the Commission after
6 finalization of the stipulated revenue requirement and rates per the
7 pending updates for the Robeson LNG and Pender-Onslow projects.

8 The Stipulating Parties agreed to Piedmont's rollout of new and
9 modified Energy Efficiency Programs ("EE Program(s)"), and that the
10 entire EE portfolio - both the existing and new/modified EE Programs - be
11 authorized for a three-year pilot in order to collect operational data,
12 perform evaluation, measurement, and verification ("EM&V"), and assess
13 cost-effectiveness. The Company also proposed, in Appendix H of its
14 Service Regulations, a rider to enable the recovery of all approved EE
15 Program expenses on a going-forward basis starting November 1, 2021.
16 The Company's proposal, as explained in my prefiled Direct Testimony,
17 requested Commission approval for regulatory asset treatment for its EE
18 Program expenses in the absence of approval of Piedmont's proposed
19 Appendix H.⁴ The Stipulating Parties agreed with the Company's
20 proposal to remove the EE Program expenses from the base revenue
21 requirement set in this proceeding and that Piedmont should recover these

4 Note that the Commission's approval of regulatory asset treatment on this matter, in lieu of approval of Piedmont's proposed Appendix H, would defer deliberation of EE Program cost recovery by rate class until Piedmont's next general rate case proceeding.

1 costs through a mechanism other than base rates set in this proceeding.
2 However the Stipulating Parties have not yet reached agreement on the
3 details of how that cost recovery should precisely work.

4 The Stipulating Parties agreed that the Commission should allow
5 Piedmont to join and participate in the affordability stakeholder
6 collaborative currently being conducted around electric service provided
7 by Piedmont's affiliates, Duke Energy Progress and Duke Energy
8 Carolinas. The Stipulating Parties also agree to certain customer-
9 supportive revisions to Piedmont's model used to calculate the feasibility
10 of extending natural gas service to its residential and commercial
11 customers. The Stipulation also supports the undertaking of two studies
12 proposed in the direct testimony of Public Staff witness Dustin Metz,
13 which pertain to the breakdown of costs and customer usage between
14 Piedmont's North Carolina and South Carolina jurisdictions.

15 **Q. Are the adjustments to revenues and rates proposed in the Stipulation**
16 **fair, just and reasonable?**

17 A. Yes, I believe so. The revenues and rates agreed to as part of the
18 Stipulation were the product of give and take negotiations between the
19 Stipulating Parties. Each party analyzed the settlement terms, revenues
20 and rates and concluded they were reasonable for purposes of settling this
21 proceeding. The settlement rates are also very beneficial to customers, as
22 they are significantly lower in comparison to Piedmont's proposed rates in
23 this docket.

1 **Q. What will be the impact on customers of the stipulated revenue**
2 **request?**

3 A. In my prefiled Direct Testimony explained that Piedmont's revenue
4 request, as filed in the Company's application at a total increase of \$109.0
5 million, would increase Piedmont's annual revenue by approximately \$95
6 per residential customer (or an average monthly increase of just under
7 \$8).⁵ By comparison, the annual residential customer impact under the
8 Stipulation excluding the Robeson LNG and Pender-Onslow projects, is
9 approximately \$37 (or an average monthly increase of approximately \$3).⁶
10 By including the Robeson LNG and Pender-Onslow projects as currently
11 estimated, the annual revenue impact per residential customer under the
12 Stipulation is approximately \$65 (or an average monthly increase of
13 approximately \$5.50).⁷

14 **Q. Do you believe that the stipulated revenue and rate increase, including**
15 **the stipulated ROE, is consistent with the statutory factors identified**
16 **in G.S. 62-133 and is otherwise fair and reasonable to Piedmont and**
17 **its customers considering changing economic conditions?**

5 The calculation of this residential bill impact was shown in footnote 1 of my prefiled Direct Testimony.

6 Line 50 of Settlement Exhibit_(PKP-1) shows the total revenue requirement increase of approximately \$41.1 million. The Stipulation calls for approximately \$25.7 million of this increase to be borne by the residential class of customers, which now represents approximately 702,600 customers. Therefore, the stipulated revenue increase per residential customer is \$37 (= \$25.7 million ÷ 702,600 customers).

7 Line 50 of Settlement Exhibit_(PKP-2) shows the total revenue requirement increase of approximately \$74.1 million. The Stipulation calls for approximately \$46.0 million of this increase to be borne by the residential class of customers, which now represents approximately 702,600 customers. Therefore, the stipulated revenue increase per residential customer is \$65 (= \$46.0 million ÷ 702,600 customers).

1 A. Yes, I do, for all of the reasons I mentioned above.

2 **Q. What are you requesting the Commission do in this case?**

3 A. I am requesting that the Commission, on the basis the agreement reached
4 by the Stipulating Parties and its own independent evaluation of all the
5 evidence presented in this case, approve the terms of the Stipulation
6 reached with the Public Staff as just and reasonable and the appropriate
7 resolution of this case.

8 **Q. Does this conclude your Settlement Testimony?**

9 A. Yes, thank you.

1 MR. JEFFRIES: And Piedmont would also
2 request that Ms. Powers' prefiled direct exhibits
3 and prefiled settlement exhibits be identified as
4 marked.

5 CHAIR MITCHELL: Okay. The exhibits to
6 Ms. Powers' direct testimony shall be marked for
7 identification as they were when prefiled. In
8 addition, the exhibits to Ms. Powers' settlement
9 testimony shall be marked for identification as
10 they were when prefiled.

11 (Exhibits PKP-1 and PKP-2 and Settlement
12 Exhibits PKP-1 and PKP-2, were
13 identified as they were marked when
14 prefiled.)

15 MR. JEFFRIES: Thank you,
16 Chair Mitchell.

17 Q. Ms. Powers, have you prepared a summary of
18 your prefiled testimonies?

19 A. Yes. I have a summary of my direct and my
20 settlement testimony ready.

21 Q. Could you please provide that to the
22 Commission.

23 A. Yes. My name is Pia Katherina Powers, and I
24 am the managing director of rates and regulatory for

1 Piedmont Natural Gas. I prefiled direct testimony in
2 this docket on March 22, 2021, in support of Piedmont's
3 application for a general rate increase.

4 My prefiled direct testimony and two exhibits
5 explain and support; one, Piedmont's revenue request;
6 two, the impact of the revenue request on customers;
7 three, customer support of actions that Piedmont offers
8 in light of the COVID pandemic; four, the public
9 benefits inherent in the continued operation of
10 Piedmont's integrity management rider mechanism; five,
11 a proposed rider mechanism for Piedmont's ongoing
12 recovery of expenditures for its customer energy
13 efficiency programs; and six, other proposed changes to
14 Piedmont's tariff.

15 My settlement testimony and its two exhibits
16 explain and support the economic and noneconomic
17 adjustments to Piedmont's filed case as reflected in
18 the stipulation of partial settlement between the
19 stipulating parties, which are Piedmont Natural Gas,
20 Public Staff, the Carolina Utility Customers
21 Association, and the Carolina Industrial Group for Fair
22 Utility Rates IV.

23 This concludes the summary of my prefiled
24 direct and settlement testimony.

1 Q. Thank you, Ms. Powers.

2 MR. JEFFRIES: Chair Mitchell,
3 Ms. Powers is available for cross examination and
4 questions by the Commission.

5 CHAIR MITCHELL: All right. My notes
6 indicate that no party has cross examination for
7 the witness. I will pause here to make sure that
8 is, in fact, the case.

9 (No response.)

10 CHAIR MITCHELL: All right. I'm not
11 hearing any cross examination, so I'll move to
12 Commissioners and ask if Commissioners have
13 questions for the witness.

14 COMMISSIONER HUGHES: Chair Mitchell, I
15 have a few.

16 CHAIR MITCHELL: All right. And I see
17 Commissioner Duffley has questions as well, so
18 let's start with -- let's start with
19 Commissioner Hughes.

20 EXAMINATION BY COMMISSIONER HUGHES:

21 Q. Yes, Ms. Powers, could you briefly describe
22 how revenues from special contracts are factored into
23 Piedmont's revenue requirements in this case?

24 A. Yes, Commissioner Hughes. In Piedmont's

1 general rate proceedings, such as this one, all of
2 Piedmont's revenues from its customers, tariff
3 customers as well as customers under special contracts,
4 are considered in the computation of revenues absent a
5 rate adjustment. All of Piedmont's expenses and costs
6 face rate regarding all customers, tariffed and
7 non-tariffed, are factored into the computation. And
8 from that, we compute what rate adjustment is needed in
9 order to support the rate of return that we're
10 requesting in this case. And then, accordingly, that
11 was modified in the settlement agreement.

12 So regarding your question of how special
13 contracts are factored in, their revenues are factored
14 into the computation, as are all the assets and costs
15 that go in support of those contracts. I would note
16 just for specifics here, you know, absent capturing the
17 revenues from those contracts, the Company's
18 computation of the necessary increase to revenue would
19 have appeared larger.

20 So we capture the revenues and costs so that
21 it's a full representation of what our needs are -- our
22 requested needs are pursuant to the rate increase.

23 Q. Okay. Thank you for that. And just a
24 follow-up for that.

1 If on the circumstance that the revenue
2 actually falls short from what you were expecting, how
3 would that typically be recovered?

4 A. Commissioner Hughes, may I ask, were you
5 referring to if revenues fall short from the special
6 contract? Is that what your question is?

7 Q. Yes, I'm sorry. If the special contract
8 revenue, and in particular that -- that subcategory of
9 revenue falls short, where would you get that revenue?
10 How would that be covered?

11 A. It would be covered from the special contract
12 customer. The special contracts, the rates for that,
13 they're established at a point in time using the
14 Commission's rate of -- overall approved rate of return
15 at that point in time, and as you know, presented for
16 approval before this Commission.

17 And I believe all, if not most -- excuse me
18 for not having the specifics literally on every single
19 one, but it is Piedmont's common practice, and
20 certainly is in most special contracts, that it has a
21 mechanism such that the annual margin is -- well, some
22 contracts there's a flat annual margin. So it's not
23 volumetrics, so there's really no opportunity to fall
24 short from what was needed.

1 And in other agreements where it might be
2 more volumetric based, there is a mechanism -- an
3 annual true-up mechanism embedded in it such that we do
4 receive the margin that was contemplated pursuant to
5 the agreement. Our return hat, the overall rate of
6 return -- I will note this other factor, because I
7 think it is important. The overall rate of return that
8 those contract rates are established at, based on the
9 overall rate of return approved by this Commission at
10 the point in time that the proceeding is set, and so
11 those -- the overall rate of return has been declining
12 over time. So there is definitely, I would say, no
13 opportunity where the special contracts provide revenue
14 that is insufficient for the Company's return purposes.

15 Q. Okay. Thank you for that. No further
16 questions.

17 CHAIR MITCHELL: All right.

18 Commissioner Duffley?

19 EXAMINATION BY COMMISSIONER DUFFLEY:

20 Q. Good morning, Ms. Powers.

21 A. Good morning, Commissioner Duffley.

22 Q. So I have some questions about the energy
23 efficiency rider mechanism.

24 A. Yes.

1 Q. On pages 24 through 28 of the stipulation of
2 partial settlement, the parties agreed to an EE rider
3 mechanism to recover costs of the EE programs; is that
4 correct?

5 A. Yes.

6 Q. And actually, the Public Staff agreed to the
7 rider and the cost recovery mechanism in its initial
8 testimony; is that correct?

9 A. Forgive me, I don't have the testimony in
10 front of me.

11 Q. Subject to check?

12 A. Subject to check. My recollection is that
13 they did not object to it, but literally did not
14 recommend approval of tariff appendix H as proposed,
15 which laid out the details. And those details would be
16 subject to further supplemental testimony, or in this
17 case, deliberations that we had in the course of
18 settlement discussions.

19 Q. All right. Thank you for that.

20 Is the need for the creation of energy
21 efficiency, or EE programs, a reasonable need?

22 A. I believe it is, yes.

23 Q. And is the creation of this EE rider
24 mechanism within a general rate case in which all rate

1 schedules are under consideration?

2 A. Yes.

3 Q. Is it correct that these EE programs, as a
4 whole, will be considered a pilot program? Or are all
5 of them within the pilot program?

6 A. Yes. Pursuant to the stipulation, yes.

7 Q. And are the costs of the different programs
8 within this larger pilot program uncertain and subject
9 to fluctuate?

10 A. That is correct.

11 Q. Could any of these EE programs be temporary,
12 for example, not meet the cost effectiveness test and
13 then the Company would terminate the program,
14 potentially?

15 A. Potentially, yes.

16 Q. Would you agree that whether or not to create
17 a rider cost recovery mechanism is case specific in
18 terms on the facts and circumstances of each case?

19 A. Yes, I would agree.

20 Q. Is the rider mechanism an appropriate and
21 well-recognized method for cost recovery for this type
22 of item?

23 A. Yes, it is.

24 Q. Can you cite to other riders or examples of

1 other riders not created by statute that the Commission
2 has approved that Piedmont considers analogous or
3 similar to the proposed EE rider mechanism?

4 A. Yes. Piedmont's proposed EE rider mechanism
5 is analogous to its integrity management rider which
6 this Commission approved in 2013. I think that's the
7 most compelling example to provide.

8 Q. Okay. Thank you, Ms. Powers. I have no
9 further questions.

10 A. Thank you.

11 CHAIR MITCHELL: All right. Ms. Powers,
12 I have just a few questions for you following on
13 some of the questions asked by Commissioner Duffley
14 just quickly.

15 EXAMINATION BY CHAIR MITCHELL:

16 Q. As an alternative to the rider mechanism,
17 Piedmont proposed that the Commission allow the costs
18 associate with the EE programs to be deferred for
19 consideration in the next rate case.

20 Has Piedmont given any thought to whether or
21 how those costs would satisfy the deferral test that
22 the Commission has articulated in the past, to the
23 extent that you're aware of that test?

24 A. Yes. I am aware of that test. With respect

1 to the level of cost of Piedmont's application for the
2 EE program articulated that it would achieve, over
3 time, an annual cost of roughly in the five -- order of
4 magnitude of \$5 million a year. And I think that the
5 impact on the Company's financial return would depend
6 on how long the Company is out. Would depend, meaning
7 when Piedmont would come in for its next rate case. So
8 the longer that Piedmont is out for its next rate case,
9 the more impactful the -- it is to not recover those
10 costs.

11 I believe that is one element that the
12 Commission looks at, the financial impact of the costs
13 that the Company seeks deferral treatment as.

14 Q. Okay. Thank you, Ms. Powers. Last question
15 for you.

16 Is it possible for Piedmont to design a
17 dollars-per-dekatherm energy efficiency savings
18 program?

19 A. I think I'd need to give that consideration.
20 I don't have an answer to that at this moment.

21 Q. Okay. All right. Fair enough.

22 CHAIR MITCHELL: All right. Any
23 additional questions from Commissioners? Thank
24 you, Ms. Powers. Any additional questions from

1 Commissioners?

2 (No response.)

3 CHAIR MITCHELL: All right. I'm not
4 hearing. All right. I will ask for questions on
5 Commissioner's questions from any of the
6 intervening parties?

7 (No response.)

8 CHAIR MITCHELL: Ms. Force, I see you
9 turned on your camera. Okay. All right.

10 Mr. Jeffries, questions on
11 Commissioners' questions?

12 MR. JEFFRIES: I have one question,
13 Chair Mitchell.

14 CHAIR MITCHELL: Go ahead.

15 REDIRECT EXAMINATION BY MR. JEFFRIES:

16 Q. Ms. Powers, talking to Commissioner Hughes,
17 he was asking you some questions that I at least
18 interpreted as being directed at the issue of, you
19 know, how does the Company ensure that it's actually
20 going to recover its revenues under the special
21 contracts. And you mentioned a couple of different
22 mechanisms that are baked into the existing special
23 contracts that help with that.

24 Is it also true that Piedmont -- at least

1 with respect to existing contracts, that Piedmont's
2 practice has been to recover the full cost of the
3 special contract facilities over the initial term of
4 the contract?

5 A. That is correct.

6 Q. And is that -- does that result in an --
7 essentially, an accelerated recovery of what will
8 eventually be the depreciation expense associated with
9 those facilities?

10 A. Yes, it does.

11 Q. And does that provide an additional cushion
12 to help ensure that there won't with be a shortfall in
13 revenues under the special contract?

14 A. Yes, I would say so.

15 Q. Okay.

16 MR. JEFFRIES: That's all the questions
17 I have, Chair Mitchell.

18 CHAIR MITCHELL: All right. Ms. Powers,
19 I think, at this point in time, you are off the
20 hook. You may step down.

21 Mr. Jeffries, does the Company intend to
22 recall the witness?

23 MR. JEFFRIES: We do not,
24 Chair Mitchell.

1 CHAIR MITCHELL: All right. Ms. Powers,
2 then you may be excused.

3 And, Mr. Jeffries, I will take a motion
4 from you.

5 MR. JEFFRIES: Thank you. We would move
6 that Ms. Powers' prefiled direct exhibits marked
7 for identification as Exhibit PKP-1 and PKP-2, as
8 well as Ms. Powers' prefiled settlement exhibits
9 marked for identification as Settlement Exhibit
10 PKP-1 and Settlement Exhibit PKP-2 be entered into
11 the evidence in the record on this proceeding.

12 CHAIR MITCHELL: All right. Hearing no
13 objection to your motion, the exhibits to witness
14 Powers' prefiled testimony will be admitted into
15 the record.

16 (Exhibits PKP-1 and PKP-2 and Settlement
17 Exhibits PKP-1 and PKP-2, were admitted
18 into evidence.)

19 CHAIR MITCHELL: All right. At this
20 point in time, let's take a break for our court
21 reporter. We will go off the record now and go
22 back onto the record at 11:00. Please, everyone,
23 just turn off your cameras and mute your line, but
24 otherwise do not leave the meeting. All right.

1 Thank you.

2 (At this time, a recess was taken from
3 10:47 a.m. to 11:01 a.m.)

4 CHAIR MITCHELL: All right. Let's go
5 back on the record.

6 Piedmont?

7 MR. JEFFRIES: Chair Mitchell, before we
8 call our next witness, if I may, I'd like to bring
9 up an administrative issue that's been brought to
10 my attention.

11 CHAIR MITCHELL: All right.

12 MR. JEFFRIES: In our page counts -- I
13 know that, for me, in our page counts in reference
14 to the prefiled testimony, I was only counting the
15 actual pages of testimony, and I've been informed
16 that we need to include the pages for -- that
17 include the cover sheet and any appendices. And so
18 I think -- and I will do that going forward, but
19 for the witnesses that have already appeared,
20 Piedmont would move that the Chair clarify on the
21 record that the page references are to the entirety
22 of the testimony, including the cover sheets and
23 appendices.

24 CHAIR MITCHELL: All right.

1 Mr. Jeffries, I'm not hearing any objection to your
2 request, so we will clarify for purposes of the
3 record that the testimony that will be admitted
4 into the record for Piedmont will include all
5 pages, including those which are unnumbered.

6 MR. JEFFRIES: Thank you,
7 Chair Mitchell. With that, we -- Piedmont would
8 call Ms. Kally Couzens to the stand, please.

9 CHAIR MITCHELL: All right. There you
10 are, Ms. Couzens. I apologize, I mispronounced
11 your name earlier.

12 THE WITNESS: No problem.

13 CHAIR MITCHELL: And I will get it right
14 from now on. Okay. Ms. Couzens, raise your right
15 hand please.

16 Whereupon,

17 KALLY A. COUZENS,
18 having first been duly affirmed, was examined
19 and testified as follows:

20 CHAIR MITCHELL: All right.
21 Mr. Jeffries.

22 MR. JEFFRIES: Thank you,
23 Chair Mitchell.

24 DIRECT EXAMINATION BY MR. JEFFRIES:

1 Q. Good morning, Ms. Couzens.

2 A. Good morning.

3 Q. I should -- in the spirit of fairness, I
4 should inform the Chairman that she's not the only one
5 that's historically mispronounced Ms. Couzens' last
6 name. I did that for a long time before Ms. Couzens
7 corrected me, so I apologize for that.

8 Could you state your name and business
9 address for the record, please.

10 A. My name is Kally Couzens, and my business
11 address is 4720 Piedmont Row Drive, Charlotte,
12 North Carolina.

13 Q. And where do you work, Ms. Couzens?

14 A. Piedmont Natural Gas.

15 Q. And what's your position at Piedmont?

16 A. I am the manager of rates and regulatory
17 strategy.

18 Q. Okay. Thank you. So I'm gonna go over your
19 prefiled testimony, and I think you win the prize for
20 filing the most prefiled testimony today, at least for
21 Piedmont. So bear with me here. You're the same
22 Ms. Couzens that prefiled direct testimony on
23 March 22, 2021, consisting of 16 pages; is that
24 correct?

1 A. Yes.

2 Q. And there were also four exhibits attached to
3 that prefiled direct testimony marked as KAC-1 through
4 KAC-4; is that correct?

5 A. Yes.

6 Q. And are you also the same Kally Couzens that
7 prefiled rebuttal testimony in this proceeding on
8 August 25, 2021, consisting of 10 pages?

9 A. Yes.

10 Q. And then you also filed supplemental
11 testimony on July 28, 2021, consisting of eight pages
12 and Updated Exhibits KAC-1 through KAC-4, correct?

13 A. Yes.

14 Q. And finally, on September 7th, you filed --
15 September 7, 2021, you filed settlement testimony
16 consisting of five pages; is that correct?

17 A. Yes.

18 Q. And were all -- first of all, do you have any
19 corrections to your prefiled testimonies?

20 A. No corrections.

21 Q. Okay. If I ask you the same questions that
22 are set forth in your prefiled testimonies while you
23 were on the stand today, would your answers be the
24 same?

1 A. Yes.

2 Q. All right. Thank you.

3 MR. JEFFRIES: Chair Mitchell, Piedmont
4 would move that Ms. Couzens' prefiled direct,
5 rebuttal, supplemental, and settlement testimonies
6 be entered into the record as if given orally from
7 the stand.

8 CHAIR MITCHELL: All right. I'm
9 gonna -- hearing no objection, Mr. Jeffries, to
10 your motion, I'm gonna admit them in the following
11 order: the prefiled direct testimony of witness
12 Couzens that was filed in the docket on March 22nd
13 shall be copied into the record as if given orally
14 from the stand; the supplemental testimony of
15 Piedmont witness Couzens filed in the docket on
16 July 28th shall be copied into the record as if
17 given orally from the stand; the rebuttal testimony
18 of Piedmont witness Couzens filed the docket on
19 August 25th shall be copied into the record as if
20 given orally from the stand; and the settlement
21 testimony of the witness Couzens filed on
22 September 7th in this docket shall be copied into
23 the record as if given orally from the stand.

24 (Whereupon, the prefiled direct

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testimony, prefiled supplemental
testimony, prefiled rebuttal testimony,
and prefiled settlement testimony of
Kally A. Couzens were copied into the
record as if given orally from the
stand.)

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Sep 14 2021

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Direct Testimony and Exhibits
of
Kally A. Couzens**

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

1 **Q. Ms. Couzens, please state your name and business address.**

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

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Piedmont Natural Gas Company, Inc., (“Piedmont” or
6 “the Company”) as the Manager of Rates & Regulatory Strategy.

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

8 A. I graduated from the University of South Florida in May of 2001 with a
9 bachelor’s degree in Business Administration. I was employed by TECO
10 Energy Inc. for six years from 2001 to 2007 as an Analyst in the Strategic
11 and Financial Analysis department. I was hired by Piedmont as a
12 Business Development Analyst in December 2007. In 2009 I joined
13 Regulatory Affairs as a Senior Regulatory Affairs Analyst. In 2016 I was
14 promoted to the position of Manager within the Gas Rates & Regulatory
15 Strategy department.

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

18 A. Yes. I have presented testimony before the North Carolina Utilities
19 Commission in Piedmont’s prior general rate case proceedings in Docket
20 No. G-9, Sub 631 and Docket No. G-9, Sub 743. I have also presented
21 testimony before the Tennessee Public Utility Commission.

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

1 A. My testimony supports the Company's computation of pro forma revenues
2 (i) for the sale and transportation of gas based on normalized Test Period
3 throughput, and (ii) for other operating revenues. I also provide updated
4 computational factors for the operation of our Margin Decoupling Tracker
5 ("MDT") mechanism and support the reasonableness of our proposed rate
6 design.

7 **Q. Do you have any exhibits as part of your testimony?**

8 A. Yes. The following exhibits are part of my testimony and are attached
9 hereto:

10 Exhibit__(KAC-1) Total Pro Forma Revenues for the Sale and
11 Transportation of Gas

12 Exhibit__(KAC-2) Components of Pro Forma Sales and
13 Transportation Revenues

14 Exhibit__(KAC-3) Present Rates and Proposed Rates

15 Exhibit__(KAC-4) Proposed Factors for the Margin Decoupling
16 Tracker Mechanism

17 **Q. Were these exhibits prepared by you or under your direction?**

18 A. Yes.

19 **Test Period**

20 **Q. What Test Period did Piedmont utilize in preparing this case?**

21 A. Piedmont used the 12 months ended December 31, 2020.

22 **Pro Forma Revenues**

1 **Q. Please explain the initial pro forma revenue calculations for the**
2 **sale and transportation of gas.**

3 A. The starting point for these calculations is actual Test Period customer
4 usage. Column (1) of Exhibit__(KAC-1) shows the actual Test Period
5 bills and sales and transportation volumes by rate schedule. Column (2)
6 shows the adjustment made to normalize the Test Period volumes to
7 reflect the expected throughput levels under normal weather conditions.
8 Column (3) shows the results of the adjustments in Column (2) on the
9 actual volumes shown in Column (1). Column (4) shows the adjustments
10 applied to bills and volumes of certain large volume customers to match
11 updated rate base and plant through June 30, 2021. Column (5) shows the
12 resulting sales and transportation levels after the normalization of Test
13 Period volumes and the large volume customer adjustments. Column (6)
14 reflects the total bills that would be expected for each customer class as a
15 result of the adjustments. Column (7) shows the current approved rates.
16 These “clean” rates¹ were applied to pro forma bills and volumes to
17 compute the pro forma revenues shown in Column (8). The Integrity
18 Management Rider (“IMR”) revenues shown in Column (8) reflect the
19 IMR revenue requirements from Piedmont’s 2020 Annual IMR report,
20 which was authorized by the Commission in Docket No. G-9, Sub 777.
21 Column (9) shows the adjustments made to revenues to reflect the Margin

1 “Clean” rates, as applied to billing determinates for the computation of pro forma revenues in Exhibit_(KAC-1), is comprised of Piedmont’s current base margin rates, gas cost commodity rates, and gas cost demand rates.

1 Decoupling Tracking mechanism, projected revenue requirement changes
2 from the IMR mechanism and revenue changes to certain customer
3 contracts. These adjustments were used to properly compute the pro
4 forma revenues shown in Column (10).

5 **Q. Please explain the normalization adjustment shown in Column (2).**

6 A. This adjustment is necessary to adjust actual volumes to the quantities that
7 would have been delivered had weather conditions been normal during the
8 Test Period. Actual winter weather during the Test Period was 19.3%
9 warmer than the 30-year average used for normal, while the summer
10 period was 5.8% colder than normal. To calculate this adjustment, the
11 Company's standard method of normalizing volumes was utilized, which
12 has been accepted by the Commission in prior rate proceedings. The
13 resulting normalized volumes after the adjustment are shown in Column
14 (3).

15 **Q. What growth adjustments did the Company apply to customer
16 bills and consumption levels?**

17 A. The Company applied adjustments to the bills and consumption levels of
18 certain large volume customers based on available information. In some
19 instances, the billing determinants associated with new customers with in-
20 service dates prior to July 1, 2021, were added to align pro forma revenues
21 with the expense and rate base adjustments from ongoing business activity
22 through June 30, 2021. In other instances, adjustments were made to
23 remove a customer due to an account closure or to reflect the activity of

1 certain customers moving from a special contract agreement to a tariff rate
2 schedule or vice versa. Historically, the Company has also compared the
3 actual changes in customer levels in the year prior to the Test Period to the
4 Test Period year and used that information as a guide to grow the
5 individual rate classes to a level more closely aligned with pro forma
6 expense and rate base through June 30, 2021.

7 Early in the Test Period, Piedmont responded to the coronavirus
8 pandemic by voluntarily instituting certain measures, which would later be
9 mandated by the Commission, to assist its customers including ceasing the
10 disconnection of service for non-payment. Piedmont recognizes that the
11 Test Period customer levels are significantly elevated compared to 2019,
12 some of which is due to the fact that Piedmont did not disconnect service
13 to any customers for non-payment for the majority of the Test Period.
14 Currently, there is uncertainty regarding how these customer levels will
15 change. With the exception of the adjustments made to certain large
16 volume customers based on known and available information as discussed
17 above, the Company has not applied any further growth adjustments to the
18 Test Period bills and consumption for any of the rate classes.

19 **Q. Please explain the calculations in columns 5, 6, 7 & 8.**

20 A. The adjustment in Column (4) is applied to the Test Period annual bills
21 from Column (1) and the normalized volumes in Column (3) to derive the
22 pro forma dekatherms shown in Column (5) and the pro forma bills shown
23 in Column (6). These quantities are then priced out at the Company's

1 existing approved rates, which are shown in Column (7). The results are
2 shown in Column (8), labeled Calculated Revenues. The IMR revenues
3 also shown in Column (8) reflect the IMR revenue requirements
4 authorized from Piedmont's 2020 Annual IMR report.

5 **Q. Please explain what adjustments to revenues were captured in**
6 **Column (9)**

7 A. Column (9) incorporates revenue adjustments for the Margin Decoupling
8 Tracker mechanism, the IMR and certain special contracts.

9 **Q. Please explain the Margin Decoupling Tracker adjustments shown in**
10 **Column (9).**

11 A. The Margin Decoupling Tracker adjustments apply to the Residential,
12 Small General and Medium General Service rate schedules. The
13 adjustment to volumetric revenues as shown in Column (9) increases the
14 total pro forma revenues for Residential Service and Small and Medium
15 General Service to properly reflect the impact of the Margin Decoupling
16 Tracker mechanism as defined in Appendix C of the Company's Service
17 Regulations. The calculation is necessary to adjust margin in a manner
18 that reflects the going level of annual margin for the pro forma bills as
19 identified in Column (6).

20 **Q. Please explain the IMR adjustments shown in Column (9).**

21 A. The IMR revenue adjustments apply to all rate classes. The IMR revenue
22 adjustment shown in Column (9) reflects Piedmont's projected change in
23 IMR revenue requirements based on projected integrity plant in-service at

1 March 31, 2021 and its impact on the IMR revenue requirement
2 component of rates effective June 1, 2021.

3 **Q. Please explain the customer contract adjustments shown in Column**
4 **(9).**

5 A. Piedmont has certain non-residential customers that take gas service
6 pursuant to a contract with Piedmont. In order to appropriately reflect the
7 going-level revenues for those customers, adjustments were made based
8 on the terms of those contracts.

9 **Q. What are the results of these various calculations?**

10 A. The total pro forma revenues for the sale and transportation of gas is
11 \$1,045,885,591 considering all of the adjustments described above. This
12 amount is shown in Line 354, Column (10) of Exhibit__(KAC-1). This
13 total pro forma revenue amount is comprised of three categories of
14 revenues. Those categories are margin revenues, cost of gas (“COG”)
15 commodity revenues and COG demand revenues. Exhibit__(KAC-2)
16 provides the breakdown of total pro forma revenues by these three
17 categories by rate schedule. Line 354 of Exhibit__(KAC-2), shows total
18 pro forma revenues by category as follows:
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Table 1

Revenue Category	Pro forma Amount	Reference
Margin Revenues	\$742,058,160	Exhibit_(KAC-2) Line 354, Column 6
COG Commodity Revenues	\$187,342,806	Exhibit_(KAC-2) Line 354, Column 10
COG Demand Revenues	\$116,484,625	Exhibit_(KAC-2) Line 354, Column 8
Total Pro forma Revenues	\$1,045,885,591	Exhibit_(KAC-1) Line 354, Column 10

2

Q. Do the figures and calculations shown in Exhibit__(KAC-1) and Exhibit__(KAC-2) accurately represent Piedmont's normalized and adjusted pro forma volumes and revenues for gas sales and transportation for ratemaking purposes in this docket?

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A. Yes.

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Q. Please explain your pro forma revenue calculations for other operating revenues.

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A. The starting point for these calculations is actual Test Period per books other operating revenues, which amounted to \$3,194,374. This amount largely consists of late payment charge revenue, rental revenue from gas properties, other miscellaneous revenue, and customer cash-outs for gas shortage imbalances. The accounting and pro forma adjustments, which primarily consist of the removal of cost of gas cash-outs for normalization

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1 purposes, bring this amount to the appropriate going-level amount of
2 \$1,136,144 for rate making in the proceeding.²

3 **Q. Please summarize the total pro forma revenues for rate making in this**
4 **proceeding.**

5 A. In summary, the appropriate amount of total pro forma revenues for rate
6 making in this proceeding is \$1,047,021,735. This amount is the sum of
7 the computation of total pro forma revenues for the sale and transportation
8 of gas, cited previously in my testimony as \$1,045,885,591, and my
9 computation of other pro forma operating revenues of \$1,136,144. These
10 pro forma revenue amounts are used in the revenue deficiency
11 computation explained in the testimony of Piedmont witness Quynh
12 Bowman.

13 Proposed Rates and Rate Design

14 **Q. What are the rates proposed by the Company in this proceeding?**

15 A. Piedmont's proposed rates are set forth in Schedule 2 of
16 Exhibit__(KAC-3) and on Appendix I to the petition in this
17 proceeding. The Margin Decoupling Tracker Factors aligned with
18 these rates are shown in Exhibit__(KAC-4). These proposed rates
19 yield a total annual revenue amount of \$1,154,911,316 for the sale and
20 transportation of gas. In this rate case, Piedmont is not proposing any
21 changes to its other operating revenues. Therefore, the total proposed
22 revenues in this rate case is \$1,156,047,460. This is an increase of

² The workpaper for this adjustment is provided in G-1 Item 4(a).

1 \$109,025,725 from the Company's pro forma revenues in this
2 proceeding. The testimony of Piedmont witness Bowman supports the
3 derivation of the proposed change in revenues.

4 **Q. What specific component of revenues is the Company proposing to**
5 **change?**

6 A. Piedmont is proposing an increase to the margin component of
7 revenues. A change is not being proposed for the COG demand
8 component or the COG commodity component of revenues, as
9 adjustments to these revenues can be administered separately from this
10 proceeding under the procedures for gas cost rate adjustments set forth
11 in Appendix A of the Company's Service Regulations. The total
12 proposed revenue for gas sales and transportation by revenue category
13 is as follows:

14 **Table 2**

Revenue Category	Proposed Amount	Increase / (Decrease)
Margin Revenues	\$851,083,885	\$109,025,725
COG Commodity Revenues	\$187,342,806	\$0
COG Demand Revenues	\$116,484,625	\$0
Total Proposed Sales & Transportation Revenues	\$1,154,911,316	\$109,025,725

15 **Q. Is Piedmont proposing any changes to the existing rates reflected**
16 **in the Excess Deferred Income Taxes ("EDIT") Rider mechanism?**

1 A. No, the Company is not proposing any changes to the existing EDIT
2 Rider rates. The EDIT Rider mechanism was approved by the
3 Commission in Piedmont's last general rate case proceeding to
4 administer the flowback to customers of deferrals and excess deferred
5 income taxes created by changes to state and federal income tax rates.
6 Pursuant to the Commission's Order in Docket No. G-9, Sub 776,
7 Piedmont removed the EDIT Rider rates for the one-year giveback of
8 deferred revenues on December 1, 2020, with the completion of those
9 refunds. The EDIT Rider rates for the five-year giveback of federal
10 "Unprotected EDIT" and the rates for the three-year giveback of North
11 Carolina state EDIT will continue refunding to customers as
12 previously authorized until the end of the respective amortization
13 periods. The refunds associated with the EDIT Rider mechanism have
14 been excluded from rate making in this proceeding.

15 **Q. What rate design is Piedmont proposing in this proceeding?**

16 A. The Company is proposing to use the same basic rate design, including
17 fixed monthly charges, seasonal cost allocations, and step rates. This
18 is the same rate design methodology that was approved by the
19 Commission in Piedmont's last general rate case proceeding in 2019.

20 **Q. Does this mean that the rates will remain the same?**

21 A. No. Piedmont is proposing to change the volumetric billing rates (the
22 rates per them) to reflect the revised cost of service and updated

1 throughput. The Company is not proposing to change the monthly
2 fixed charge amount for any rate schedule.

3 **Q. How did Piedmont determine its approach to rate design in this**
4 **case?**

5 A. The main objective was to design rates that fairly price services to all
6 customer classes while also providing a fair return to investors. It was
7 also critical to design rates that are reflective of conditions in the
8 marketplace and which send the correct market signals. The
9 fundamental goal was to remain consistent with the existing rate
10 structure. In looking at this approach, however, the Company had to
11 be mindful of not disproportionately burdening one class of customers
12 versus another class in allocating the proposed rate increase,
13 particularly when considering the various factors historically used to
14 analyze rates.

15 **Q. Did the Company perform an Allocated Cost of Service Study in**
16 **this proceeding?**

17 A. Yes. Piedmont utilized Cynthia Menhorn, an outside consultant with
18 MCR Performance Solutions (“MCR”), to develop a Piedmont in-
19 house allocated cost of service model and to prepare an allocated cost
20 of service study for this proceeding. The results of the study are
21 reflected in Ms. Menhorn’s direct testimony in this proceeding. The
22 study shows that class rates of return under existing rates vary. Ms.
23 Menhorn proposes that the revenue increase requested by the

1 Company in this proceeding be allocated to the various rate classes in
2 a manner which will generally lead to more equalized rates of return
3 across customer classes than under existing rates. This results in some
4 rate classes being allocated the revenue increase at the overall system
5 increase, while other rate classes will receive more or less than the
6 overall system increase.

7 **Q. How do the Company's proposed rates conform to Ms. Menhorn's**
8 **recommendations?**

9 A. Piedmont adopted Ms. Menhorn's recommended rate design for
10 proposed revenues, which is to allocate the proposed increase in a
11 manner which will lead to more equalized rates of return across the
12 customer classes. This proposed rate design is reasonable and
13 consistent with previous rate design proposals approved in prior
14 proceedings before this Commission and does not unduly burden any
15 of the customer classes.

16 **Q. Can you please summarize the net effects of the rates you propose**
17 **in this proceeding?**

18 A. Yes. Table 3 below illustrates the pro forma revenues attributable to
19 each class of customers, the proposed revenue increase for each such
20 class, the resulting proposed revenues by class, and the percentage
21 increase in revenues to be collected from each class under the
22 proposed rates.

23

Table 3

Proposed Changes to Operating Revenue

	Pro Forma Revenue	Proposed Increase	Proposed Revenue	% Change
Residential	\$552,245,619	\$65,819,939	\$618,065,558	11.9%
Small General	\$250,716,149	\$29,959,367	\$280,675,516	11.9%
Medium General	\$40,884,097	\$4,439,455	\$45,323,552	10.9%
Natural Gas Vehicle Fuel	\$1,036,559	\$122,934	\$1,159,493	11.9%
Gas Light Service	\$102,158	\$12,116	\$114,274	11.9%
Firm Large General	\$44,471,463	\$6,850,930	\$ 51,322,393	15.4%
Interruptible Large General	\$27,572,286	\$1,425,364	\$ 28,997,650	5.2%
Military Transport	\$2,261,796	\$395,620	\$2,657,416	17.5%
Tariff Sales & Transportation Revenue	\$919,290,128	\$109,025,725	\$1,028,315,853	11.9%
Special Contracts	\$126,595,463	\$0	\$126,595,463	0.0%
Total Sales & Transportation Revenue	\$1,045,885,591	\$109,025,725	\$1,154,911,316	10.4%
Other Revenue	\$1,136,144	\$0	\$1,136,144	0.0%
Total Operating Revenue	\$1,047,021,735	\$109,025,725	\$1,156,047,460	10.4%

- 3 **Q. In your opinion, are the revenue increases proposed by the**
4 **Company in this case equitable and fair to all classes of**
5 **customers?**
- 6 **A. Yes, the revenue increases proposed are equitable and fair to all rate**
7 **classes and are consistent with the revenue recovery approach**

1 underlying our existing rates approved by this Commission in prior
2 general rate case proceedings. I also note that Ms. Menhorn's prefiled
3 direct testimony provides additional support for the Company's cost of
4 service study and proposed rate design.

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

6 **A.** Yes. Thank you.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Supplemental Testimony and Exhibits
of
Kally A. Couzens**

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

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

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

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Piedmont Natural Gas Company, Inc., (“Piedmont” or “the
6 Company”) as the Manager of Rates & Regulatory Strategy.

7 **Q. Are you the same Kally Couzens that previously prefled Direct
8 Testimony in this proceeding.**

9 A. Yes.

10 **Q. What is the purpose of your Supplemental Testimony in this proceeding?**

11 A. N.C. Gen. Stat. § 62-133(c) and Commission Rule R1-17(c) permit Piedmont
12 to update its rate case filing through the date of the hearing of this matter. In
13 the Company’s Application in this proceeding filed on March 22, 2021,
14 Piedmont specifically reserved the right to make these updates. As discussed
15 in the Supplemental Testimony of Quynh Bowman, the Company has now
16 made such updates based on available information in lieu of the previously
17 forecasted cost of service calculation as of June 30, 2021. My Supplemental
18 Testimony supports the updated computation of gas sales and transportation
19 pro forma revenues used in Ms. Bowman’s updated cost of service
20 calculation. My Supplemental Testimony also supports the derivation of
21 proposed rates as aligned with Ms. Bowman’s updated cost of service
22 calculation.

1 **Q. Do you have any exhibits supporting your Supplemental Testimony?**

2 A. Yes. The following updated exhibits are part of my Supplemental Testimony
3 and are attached hereto. These updated exhibits are in replacement of the
4 exhibits supporting my Direct Testimony in this proceeding.

- 5 • Exhibit_(KAC-1 UPDATED) Pro Forma Revenues for the Sale and
6 Transportation of Gas
- 7 • Exhibit_(KAC-2 UPDATED) Components of Pro Forma Revenues
- 8 • Exhibit_(KAC-3 UPDATED) Present and Proposed Rates
- 9 • Exhibit_(KAC-4 UPDATED) Proposed Factors for the Margin
10 Decoupling Tracker Mechanism

11 The present and proposed rates shown in Updated Appendix I in the
12 Company's update filing is consistent with the present and proposed rates
13 shown in Exhibit_(KAC-3 UPDATED).

14 **Q. Were these four exhibits prepared by you or under your direct
15 supervision?**

16 A. Yes.

17 **Q. Please explain the rationale for updating the pro forma sales and
18 transportation revenues.**

19 A. In my Direct Testimony, I explained the computation of pro forma sales and
20 transportation revenues for the purpose of establishing the Company's going-
21 level revenues absent a rate adjustment in this proceeding. In the period of
22 time since then, the Commission has reset certain components of the

1 Company's customer billing rates. Specifically, per Commission order in
2 Docket No. G-9, Sub 788, Piedmont's Integrity Management Rider ("IMR")
3 margin revenue requirement and billing rates were changed effective June 1,
4 2021. Also, per Commission order in Docket No. G-9, Sub 790, Piedmont's
5 Commodity Cost of Gas billing rate was changed effective July 1, 2021.
6 Incorporating the combined effect of these rate changes yields a level of pro
7 forma sales and transportation revenues that differs from the amounts shown
8 in the Company's original filed application in this proceeding and my Direct
9 Testimony. Therefore, it was appropriate to update my computation of pro
10 forma sales and transportation revenues for the purpose of re-establishing the
11 going-level revenues under current Commission approved rates. This update
12 is reflected in Exhibit_(KAC-1 UPDATED) and Exhibit_(KAC-2
13 UPDATED).

14 **Q. Were there any other changes incorporated into the update of pro forma**
15 **sales and transportation revenues?**

16 A. Yes. In addition to updating that computation using current Commission
17 approved rates, an update to the number of customer bills represented on a
18 pro forma basis in this proceeding was warranted. Specifically, an update
19 was made to increase the number of Residential, Small General and Medium
20 General Service customer bills represented on a pro forma basis compared to
21 the pro forma level used in the Company's original filed application in this
22 proceeding and as shown in my Direct Testimony and exhibits. Since pro

1 forma natural gas consumption by rate schedule is a function of the number
2 of pro forma customer bills by rate schedule, the increase in the pro forma
3 customers also increased the pro forma consumption level for the Residential,
4 Small General and Medium General Service rate schedules. The updated pro
5 forma customer bills align with Piedmont's updated pro forma operating
6 expenses and rate base.

7 **Q. Why did the Company increase the number of pro forma customers**
8 **billed and consumption levels from the original filed application?**

9 A. The methodology used by Piedmont in prior rate case proceedings to align
10 customers billed and consumption levels with pro forma rate base consisted
11 of computing the actual changes in customers billed from the year prior to the
12 Test Period to the Test Period. The computed growth rate was applied to the
13 Test Period customers billed, which in turn affected consumptions levels, to
14 establish the pro forma customers billed and consumption levels. As
15 explained in my Direct Testimony, while Piedmont made adjustments to the
16 customers billed and consumption levels of certain large volume customers
17 based on available information, the Company did not apply growth
18 adjustments to its Residential, Small General and Medium General Service
19 Test Period customers billed. This was in recognition of the fact that the Test
20 Period number of customers billed was significantly elevated compared to
21 prior years, partially due to the fact that Piedmont did not disconnect service
22 to any customers for non-payment for the majority of the Test Period as a

1 result of the Commission's moratorium on disconnections. The application
2 of an abnormally high growth rate, computed from a year reflecting
3 disconnections to a Test Period without disconnections, to the elevated Test
4 Period customer count was unreasonable for Piedmont's original filing based
5 on the distortion caused by the moratorium.

6 Piedmont's updated sales and transportation revenues reflect growth
7 applied to the level of Residential, Small General and Medium General
8 Service Test Period customers billed to reflect new customers that will be
9 added to the system. The Company utilized growth rates computed from
10 actual customers billed from 2018 to 2019 before the impacts of the
11 coronavirus pandemic. The impacts to Piedmont's customer levels due to
12 future disconnections remains uncertain. Piedmont believes utilization of
13 information from the last two years that were unaffected by the moratorium
14 represents the best method of calculating the customer growth rate in this
15 proceeding.

16 **Q. What are the changes to the pro forma sales and transportation revenues**
17 **as a result of the updated pro forma customers billed?**

18 A. As reflected in Column (4) of Exhibit_(KAC-1 UPDATED), the growth
19 applied to Test Period customers billed for Residential Service increased
20 customers billed annually by 115,335, while the consumption volumes
21 increased annually by 537,092 dekatherms. The Test Period customers billed
22 in aggregate for Small and Medium General Service increased annually by

1 6,944, while the aggregate consumption volumes increased annually by
2 359,613 dekatherms. In total, the sales and transportation revenues increased
3 \$11,270,816 as a result of the growth applied to Test Period customers billed.

4 **Q. What is the overall impact of all of the updates to the level of pro forma**
5 **sales and transportation revenues?**

6 A. At the time of the Company's original filed application, the pro forma sales
7 and transportation revenues were computed as \$1,045,885,591. Updated for
8 present rates and customer growth, the pro forma sales and transportation
9 revenues are computed as \$1,112,696,326. This amount is shown in
10 Exhibit_(KAC-1 UPDATED).

11 **Q. Please explain the updates to the proposed rates reflected in**
12 **Exhibit_(KAC-3 UPDATED).**

13 A. The proposed rates shown in Exhibit_(KAC-3 UPDATED) are designed to
14 produce annual gas sales and transportation revenues of \$1,209,568,431, as
15 aligned with the updated cost of service shown in Ms. Bowman's
16 Exhibit_(QPB-7 UPDATED). Exhibit_(KAC-4 UPDATED) shows the
17 MDT factors associated with the updated cost of service and proposed rates.

18 **Q. Do the updated proposed rates shown in Exhibit_(KAC-3 UPDATED)**
19 **incorporate any change to the rate design methodology used in the**
20 **Company's original filed application?**

21 A. No. The updated proposed rates incorporate the same methodology applied
22 in the Company's original filing.

1 **Q. Does this conclude your Supplemental Testimony?**

2 A. Yes.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Rebuttal Testimony
of
Kally A. Couzens**

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

1 **Q. Ms. Couzens, please state your name and business address.**

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

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Piedmont Natural Gas Company, Inc., (“Piedmont” or
6 the “Company”) as the Manager of Rates & Regulatory Strategy.

7 **Q. Have you previously testified in this proceeding?**

8 A. Yes. I previously submitted prefiled direct testimony in this proceeding
9 on March 22, 2021.

10 **Q. What is the purpose of your rebuttal testimony?**

11 A. The purpose of my testimony is to respond to various matters raised in the
12 direct testimony of the Public Staff - North Carolina Utilities Commission
13 (“Public Staff”) witnesses and intervenor witnesses.

14 **Q. What topics does your rebuttal testimony address?**

15 A. Specifically, I would like to respond to concerns and recommendations
16 related to the following topics raised by Public Staff witnesses Dustin
17 Metz, Julie Perry, and John Hinton, by Carolina Utility Customer
18 Association, Inc. (“CUCA”) witness Kevin O’Donnell, and by Carolina
19 Industrial Group for Fair Utility Rates IV (“CIGFUR IV”) witness
20 Nicholas Phillips:

21 (1) Piedmont’s design day allocation of system costs;

22 (2) Rate increases on special contract customers;

23 (3) Piedmont’s computation of certain operating revenues;

1 (4) Revisions to Piedmont's gas extension feasibility model.

2 **Q. What is Piedmont's position on the issue of demand allocation**
3 **reflected in Mr. Metz's prefiled testimony?**

4 A. I reviewed Mr. Metz's supplemental testimony, which recommends the
5 use of the Company's proposed North Carolina demand allocation of
6 85.39%. Therefore, I believe that Piedmont and the Public Staff are now
7 aligned on this issue.

8 **Q. What is your position on Mr. Metz's proposals to study the allocation**
9 **of transmission assets and the regression analyses utilized to calculate**
10 **the design day demand allocation factor?**

11 A. Mr. Metz recommends two studies. First, Mr. Metz recommends that the
12 Commission order the Company, the Public Staff, and any other interested
13 parties, to initiate, report on the status of, and complete a study of an
14 updated regression analysis to determine a more accurate breakdown of
15 system usage among Piedmont's customer classes and its North Carolina
16 and South Carolina jurisdictions. Second, Mr. Metz proposes a similar
17 study of the jurisdictional allocation of transmission costs on Piedmont's
18 system. We are confident that Piedmont's existing allocation
19 methodologies for each of these matters, which have been consistently
20 used and accepted by this Commission and also by the Public Service
21 Commission of South Carolina for many years, continue to be reasonable
22 and appropriate. Nevertheless, Piedmont is not opposed to the concept of

1 either study and will fully participate if one or both studies are ordered by
2 this Commission.

3 **Q. What concerns have been raised in this proceeding related to**
4 **Piedmont's Special Contract customers?**

5 A. CIGFUR IV witness Phillips alleges that Piedmont's proposed distribution
6 of the revenue requirement increase results in an increase provided by
7 non-contract customers to subsidize Special Contract customers. As a
8 result, witness Phillips recommends that the Commission not allow
9 Piedmont to increase the rates of non-contract customers to make-up the
10 revenue requirement. Additionally, witness Phillips raises concerns that
11 Piedmont's proposal is problematic and self-serving because its largest
12 Special Contract class, which represents Special Contracts to Power
13 Generation providers in North Carolina, involves contracts with
14 Piedmont's affiliates.

15 **Q. What is Piedmont's response to these concerns?**

16 A. The terms and conditions of each Special Contract are individually
17 reviewed and approved by the Commission. Piedmont performs a project-
18 specific analysis of the incremental costs needed to provide service to any
19 new Special Contract customer. The model Piedmont uses for this
20 analysis accurately analyzes the contributions needed from the customer to
21 fully compensate Piedmont for the costs of serving that specific customer
22 over the life of the Special Contract. As in prior general rate cases for
23 Piedmont, all of the revenue and costs associated with the provision of

1 natural gas service to customers served under Special Contracts is
2 included in the Company's cost of service computation in this rate
3 proceeding. The net effect of including the costs and revenues of these
4 contracts is a reduction of the revenue requirement for Piedmont's other
5 customers. In short, the subsidization concerns that witness Phillips raises
6 in his testimony do not exist in this case.

7 **Q. Why then does the Allocated Cost of Service Study prepared by**
8 **Piedmont witness Ms. Cynthia Menhorn show lower than average**
9 **rates of return for certain classes of Special Contracts as pointed out**
10 **by witness Phillips?**

11 A. Ms. Menhorn's Allocated Cost of Service Study results are derived to
12 determine how total revenues and costs are allocated to all rate classes
13 regardless of whether the classes will be allocated any component of a
14 requested increase. The cost model utilized by Piedmont for individual
15 projects performs a project-specific analysis of the incremental costs
16 needed to provide service. That model accurately analyzes the
17 contributions needed from the new customer to fully compensate
18 Piedmont for the costs of serving that customer during the term of the
19 contract. Ms. Menhorn engages in an entirely different analysis. She
20 allocates total North Carolina rate base, expenses and revenues across all
21 customer classes and then uses the resulting return analysis to inform
22 decisions about how to allocate any revenue requirement increases across
23 Piedmont's rate classes. Importantly, this analysis was never intended to

1 inform the design of existing special contract rates because those
2 Commission-approved rates are fixed and will not change as a result of
3 this rate case. Ms. Menhorn could have excluded all rate base, expenses,
4 and revenues associated with fixed price contracts from her cost of service
5 study. However, such exclusion would have likely required multiple
6 reconciliations throughout this proceeding as totals per the cost of service
7 study would not have been in agreement with total North Carolina rate
8 base, expenses and revenues shown in the G-1 data request response and
9 the testimony and exhibits of Piedmont witness Bowman.

10 **Q. Does Piedmont follow the same process and use the same model to**
11 **generate proposed revenues regardless of whether the counterparty to**
12 **these contracts is an affiliate?**

13 A. Yes.

14 **Q. Does witness Phillips raise any other concerns related to Piedmont's**
15 **Special Contract customers?**

16 A. Yes. In his direct testimony, witness Phillips also alleges that Piedmont
17 has not demonstrated that the Special Contract Credit included in the
18 Company's Integrity Management Rider ("IMR") mechanism is
19 appropriate to cover the level of IMR costs for its Special Contract
20 customers.

21 **Q. Do you agree with this concern?**

22 A. No. As Mr. Phillips notes, the Special Contract Credit portion of
23 Piedmont's IMR represents an amount provided by the Special Contract

1 customers towards the integrity management plant investment. This credit
2 has been consistently approved by the Commission since the inception of
3 Piedmont's IMR. The continuation of this credit was included in the
4 Settlement Agreement approved by the Commission in Piedmont's 2019
5 general rate case proceeding in Docket No. G-9, Sub 743.

6 **Q. Are there any other recommendations in this proceeding related to**
7 **Special Contracts that Piedmont disagrees with?**

8 A. Yes. In this case, CUCA witness O'Donnell recommends rate increases
9 for Piedmont's Municipal and Power Generation Special Contracts.
10 Additionally, because these contract rates are fixed he suggests that if
11 these contracts extend out for two years beyond the implementation of the
12 new rates in this case, the revenue deficiency caused by these Special
13 Contract customers should be spread to remaining non-contract customers
14 for a period not to exceed two-years. After the two-year period, witness
15 O'Donnell suggests Piedmont should absorb the rate increase or re-
16 negotiate the contracts.

17 **Q. Do you agree with this recommendation?**

18 A. No, I do not.

19 **Q. Please explain.**

20 A. As previously discussed, each special contract is approved by the
21 Commission and the full revenues and costs associated with service
22 provided to customers served under Special Contracts is included in the
23 Company's cost of service computation. The net effect of this is full

1 recovery of the costs incurred to serve Special Contract customers and a
2 reduction of the revenue requirement for Piedmont's other customers.

3 **Q. Were there any recommendations raised in this proceeding regarding**
4 **revenues that you disagree with?**

5 A. Yes. Public Staff witness Perry recommends an ongoing level of Late
6 Payment Revenues, Miscellaneous Service Revenues, and Rent from Gas
7 Properties by utilizing a five-year historical average of these other
8 operating revenues.

9 **Q. Please explain your concerns with this recommendation.**

10 A. Piedmont disagrees with witness Perry's methodology of using a five-year
11 historical average to determine the ongoing level for all categories of
12 Other Revenues. Specifically, regarding Late Payment Revenues, the
13 Company continues to be subject to the Commission's requirement in
14 Docket No. M-100, Sub 158 to forgo assessing late payment charges on
15 customer accounts and it is uncertain when this requirement will be lifted.
16 Therefore, it is uncertain when Piedmont will even begin recording late
17 payment charge revenues again. Accordingly, it is inappropriate to use a
18 methodology for these revenues in the rate case that essentially imputes
19 phantom revenues to the Company for late payment charges that we have
20 no basis to believe under the current circumstances will be recovered.
21 Piedmont also disagrees with using a historical five-year average for the
22 on-going level of Rent from Gas Properties. In its filing, Piedmont made a
23 pro forma adjustment to Rent from Gas Properties to reflect the revenue

1 associated with the current rental rates from the rental contracts.
2 Therefore, the use of a historical trend is not an accurate representation of
3 ongoing Rent from Gas Properties revenues, nor is it necessary to estimate
4 such revenues given the known rental contract rates for the term of each
5 contract. Finally, for Miscellaneous Revenues, which consist primarily of
6 reconnection revenues and non-sufficient funds revenues, the Company
7 disagrees with witness Perry's recommendation to use a five-year
8 historical average. The Company did not charge these fees for many
9 months in 2020 due to the COVID-19 pandemic. Although the Company
10 has resumed assessing reconnection charges and non-sufficient fund
11 charges, there is no indication when, or if, such revenues will return to
12 levels reflected in prior years due to the fact that many customers were
13 placed on extended payment arrangements as a result of the pandemic. In
14 short, the five-year average methodology overstates the Company's ability
15 to recover these charges.

16 **Q. Are there any other topics raised in this proceeding that you would**
17 **like to address?**

18 A. Yes. Public Staff witness John Hinton recommends in his testimony three
19 revisions to Piedmont's gas extension feasibility model used to calculate
20 the feasibility of extending natural gas service to its residential and
21 commercial customers. These revisions include the use of an investment
22 horizon of forty years or an appropriate length of time that matches the
23 book lives of the gas plant, the use of the Company's approved net of tax

1 discount rate employed for the net present value analysis, and the
2 adjustment of all future cash flows by a long-term inflation rate of 2%.

3 **Q. Do you have any concerns with this recommendation?**

4 A. No. As mentioned in witness Hinton's testimony, the Company has
5 reviewed these proposed changes and supports these adjustments.

6 **Q. Does this conclude your rebuttal testimony?**

7 A. Yes, it does.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Settlement Testimony
of
Kally A. Couzens**

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

1 **Q. Ms. Couzens, please state your name and business address.**

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

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Piedmont Natural Gas Company, Inc., (“Piedmont” or
6 the “Company”) as the Manager of Rates & Regulatory Strategy.

7 **Q. Have you previously testified in this proceeding?**

8 A. Yes. I previously submitted prefiled direct testimony on March 22, 2021,
9 supplemental testimony on July 28, 2021, and prefiled rebuttal testimony
10 on August 25, 2021.

11 **Q. What is the purpose of your Settlement Testimony in this proceeding?**

12 A. My Settlement Testimony discusses the changes in the Company’s
13 revenue allocation and rate design reflected in the Stipulation of Partial
14 Settlement (“Stipulation”) between Piedmont and the Public Staff - North
15 Carolina Utilities Commission (“Public Staff”), Carolina Utilities
16 Customer Association, Inc. (“CUCA”) and Carolina Industrial Group for
17 Fair Utility Rates IV (“CIGFUR”) (collectively the “Stipulating Parties”)
18 on September 7, 2021.

19 **Q. Have you prepared any exhibits to accompany this Settlement
20 Testimony?**

21 A. Not specifically to accompany this testimony. The exhibits prepared by
22 me or under my direction are included in the Stipulation at Exhibits C1,
23 C2, D, E1, E2, I, J1, J2, K1, K2, L1, and L2.

1 **Q. Do the revenue allocation changes and modifications to the**
2 **Company's previously filed rate design recommendations as**
3 **presented in the Stipulation and associated exhibits meet the**
4 **parameters of just and reasonable rates?**

5 A. Yes, even though the Company put forth in its filing on March 22, 2021
6 what it considered to be a reasonable rate design, in an effort to settle the
7 case and try to accommodate the parties to this case, the stipulated rate
8 design is also considered reasonable and does not unduly burden any of
9 the customer classes and, therefore, should be accepted.

10 The rates agreed to as part of the Stipulation and reflected in the exhibits
11 thereto were the product of give and take negotiations between the
12 Stipulating Parties. Each party analyzed the settlement rates and
13 concluded they were reasonable for purposes of settling this proceeding.
14 The settlement rates based on the stipulated lower revenue requirement are
15 also beneficial to customers as compared to Piedmont's initially proposed
16 rates in this docket.

17 **Q. Please explain the stipulated rate design.**

18 A The rate design portion of the Stipulation reflects considerable
19 compromise between the Stipulating Parties. As stated in Public Staff
20 witness Floyd's testimony, rate design should follow the same cost
21 causation approach underlying a cost of service study, but strict adherence
22 to cost causation may not always be possible and other considerations
23 must be considered. The stipulated revenue allocation included in

1 Stipulation Exhibits J1 and J2 was not spread across the board, but affords
2 consideration to the varying rates of return as presented in the prefiled
3 direct testimony of Piedmont witness Cynthia Menhorn and as cited by
4 CUCA witness Kevin O'Donnell and CIGFUR witness Nicholas Phillips,
5 Jr.

6 **Q. Were there any modifications to fixed cost of gas (demand) rates in**
7 **this proceeding?**

8 A. Yes. The Stipulation reflects a fixed gas cost revenue increase to better
9 align Piedmont's fixed gas cost revenue to the going-level of fixed gas
10 cost expense. To determine the stipulated rates, the Company performed
11 an analysis to establish the appropriate level of fixed gas costs by rate
12 class based on the load characteristics of each rate class. Based on the
13 results of the analysis, the Company allocated the revenue increase to the
14 Residential, Small General, and Medium General Service rate schedules to
15 better reflect the appropriate level of fixed gas cost revenues from these
16 rate schedules. The rates to collect fixed gas costs for all other rate
17 schedules remain unchanged. The methodology for computing the fixed
18 gas cost allocation to the rate classes and the resulting rates is consistent
19 with the methodology previously accepted by this Commission. The fixed
20 gas cost rates and associated apportionment factors are presented in
21 Exhibit D of the Stipulation.
22

1 **Q. What are you requesting the Commission do in this case?**

2 A. I am requesting that the Commission, on the basis of the agreement
3 reached among the Stipulating Parties and its own independent evaluation
4 of all the evidence presented in this case, approve the rate design included
5 in the Stipulation as just and reasonable.

6 **Q. Does this conclude your Settlement Testimony?**

7 A. Yes.

1 MR. JEFFRIES: Thank you,
2 Chair Mitchell. Piedmont would also request that
3 Ms. Couzens' prefiled direct Exhibits KAC-1 through
4 KAC-4, and her prefiled Supplemental Exhibits KAC-1
5 Updated through KAC-4 Updated be identified as
6 marked.

7 CHAIR MITCHELL: The exhibits -- hearing
8 no objection, Mr. Jeffries, to the motion, the
9 exhibits to Ms. Couzens' testimony shall be marked
10 for identification as they were when prefiled.

11 (Exhibits KAC-1 through KAC-4 and
12 Supplemental Exhibits KAC-1 Updated
13 through KAC-4 Updated, were identified
14 as they were marked when prefiled.)

15 MR. JEFFRIES: Thank you,
16 Chair Mitchell.

17 Q. Ms. Couzens, have you prepared a summary of
18 your prefiled testimonies?

19 A. I have.

20 Q. Could you please provide that for the
21 Commission.

22 A. My name is Kally Couzens, and I am the
23 manager of rates and regulatory strategy for Piedmont
24 Natural Gas Company. I prefiled direct testimony in

1 this docket on March 22, 2021, in support of Piedmont's
2 application for a general rate increase. I also filed
3 supplemental testimony on July 28, 2021, in support of
4 Piedmont's updated cost of service calculation as of
5 June 30, 2021.

6 Further, on August 25, 2021, I submitted
7 prefiled rebuttal testimony in this proceeding. My
8 prefiled direct testimony supports the Company's
9 computation of pro forma revenues for the sale and
10 transportation of gas based on normalized test period
11 throughput and for other operating revenues. I also
12 provide updated computational factors for the operation
13 of the margin decoupling tracker mechanism and support
14 the reasonableness of Piedmont's proposed rate design.

15 My direct testimony summarizes the net
16 effects of the rates Piedmont is proposing in this
17 proceeding and provides supporting data that
18 demonstrates that the revenue increased proposed by the
19 Company in this case are equitable and fair to all rate
20 classes. I explain how Piedmont is proposing to use
21 the same basic rate design that was approved by the
22 Commission in Piedmont's last general rate case
23 proceeding in 2019, including fixed monthly charges,
24 seasonal cost allocations, and step rates. My

1 testimony explains that Piedmont's proposed rate design
2 is reasonable and consistent with previous rate design
3 proposals approved in prior proceedings before this
4 Commission and does not unduly burden any other
5 customer classes.

6 My prefiled direct testimony is supported by
7 the following four exhibits: One, total pro forma
8 revenues for the sale and transportation of gas; two,
9 components of pro forma sales and transportation
10 revenues; three, present and proposed rates; and four,
11 proposed factors for the margin decoupling tracker
12 mechanism.

13 I also filed supplemental testimony in this
14 docket on July 28, 2021, in support of the Company's
15 updated cost of service calculation as of
16 June 30, 2021, which was performed and filed pursuant
17 to North Carolina General Statute 62-33(c) [sic], and
18 Commission Rule R1-17(c). My supplemental testimony
19 supports the update computation of gas sales and
20 transportation pro forma revenues used in Ms. Bowman's
21 updated cost of service calculation as of
22 June 30, 2021.

23 My supplemental testimony also supports the
24 derivation of proposed rates as aligned with

1 Ms. Bowman's updated cost of service calculations as of
2 June 30, 2021.

3 My supplemental testimony is supported by the
4 following four updated exhibits: One, pro forma
5 revenues for the sale and transportation of gas; two,
6 components of pro forma revenues; three, present and
7 proposed rates; and four, proposed factors for the
8 margin decoupling tracker mechanism.

9 Finally, I submitted prefiled rebuttal
10 testimony in this docket on August 25, 2021, in
11 response to various matters raised by Commission Public
12 Staff witnesses and intervenor witnesses.

13 Specifically, I respond to concerns and recommendations
14 related to the following four topics raised by Public
15 Staff witnesses Dustin Metz, Julie Perry, and
16 John Hinton; by Carolina Utility Customer Association
17 witness Kevin O'Donnell; and by Carolina Industrial
18 Group for Fair Utility Rates IV witness
19 Nicholas Phillips:

20 One, Piedmont's design day allocation of
21 system costs; two, rate increases on special contract
22 customers; three, Piedmont's computation of certain
23 operating revenues; and four, revisions to Piedmont's
24 gas extension feasibility model.

1 This concludes the summary of my prefiled
2 direct, supplemental, and rebuttal testimonies. I
3 would also like to add that I filed settlement
4 testimony in this proceeding on September 7, 2021.

5 Q. Thank you, Ms. Couzens.

6 MR. JEFFRIES: Chair Mitchell,
7 Ms. Couzens is available for cross examination and
8 questions by the Commission.

9 CHAIR MITCHELL: All right. My notes
10 indicate that there is no cross examination for the
11 witness, but I'll pause to make sure that is, in
12 fact, the case.

13 (No response.)

14 CHAIR MITCHELL: Okay. I'm not hearing
15 any cross examination for the witness.

16 Questions from Commissioners. Any
17 Commissioners have questions for the witness?

18 (No response.)

19 CHAIR MITCHELL: All right. I'm not
20 seeing any questions from Commissioners. So,
21 Ms. Couzens, I believe you are off the hook for the
22 morning. All right. You may step down.

23 And, Mr. Jeffries, do you intend to
24 recall the witness?

1 MR. JEFFRIES: We do not,
2 Chair Mitchell.

3 CHAIR MITCHELL: All right.
4 Ms. Couzens, you are excused.

5 THE WITNESS: Thank you.

6 CHAIR MITCHELL: All right. Thank you.
7 And, Mr. Jeffries, I will take a motion
8 from you.

9 MR. JEFFRIES: Thank you,
10 Chair Mitchell. Piedmont would move that
11 Ms. Couzens prefiled direct exhibits marked as
12 Exhibits KAC-1 through KAC-4, and her prefiled
13 supplemental exhibits marked as KAC-1 Updated
14 through KAC-4 Updated be entered into evidence.

15 CHAIR MITCHELL: All right. Hearing no
16 objection, exhibits to the witness' testimony shall
17 be admitted into evidence.

18 (Exhibits KAC-1 through KAC-4 and
19 Supplemental Exhibits KAC-1 Updated
20 through KAC-4 Updated, were admitted
21 into evidence.)

22 CHAIR MITCHELL: All right.
23 Mr. Jeffries, or Piedmont, y'all may call your next
24 witness.

1 MS. DEMOPOULOS: Good morning,
2 Chair Mitchell. Piedmont will now call
3 Cynthia Menhorn.

4 CHAIR MITCHELL: All right.
5 Ms. Menhorn, there you are. Would you please raise
6 your right hand?

7 Whereupon,

8 CYNTHIA A. MENHORN,
9 having first been duly affirmed, was examined
10 and testified as follows:

11 CHAIR MITCHELL: All right. Thank you.
12 You may proceed, Ms. Demopoulos.

13 MS. DEMOPOULOS: Thank you.

14 DIRECT EXAMINATION BY MS. DEMOPOULOS:

15 Q. Good morning, Ms. Menhorn.

16 A. Good morning.

17 Q. Please state your full name and business
18 address for the record, please.

19 A. My name is Cynthia Menhorn. My business
20 address is 155, and I'm gonna spell Pfingsten, it's
21 P-F-I-N-G-S-T-E-N, Road, Suite 155, Deerfield, Illinois
22 60015.

23 Q. Thank you for making that very clear for the
24 record. I'm sure the court reporter appreciates that.

1 And where do you work?

2 A. I am the vice president at MCR Performance
3 Solutions.

4 Q. And are you the same Cynthia Menhorn that
5 prefiled direct testimony in this proceeding on
6 March 22, 2021, consisting of 20 pages and Exhibits
7 CAM-1 through CAM-3, as well as rebuttal testimony
8 filed on August 25, 2021, consisting of eight pages?

9 A. I am.

10 Q. Thank you. And was that testimony, and were
11 those exhibits prepared by you or under your direction?

12 A. They were.

13 Q. Do you have any corrections to your
14 testimony?

15 A. I do not.

16 Q. If I asked you the same questions as set
17 forth in your prefiled testimony while you were on the
18 stand today, would your answers be the same?

19 A. Yes, they would.

20 Q. Thank you.

21 MS. DEMOPOULOS: Chair Mitchell, at this
22 point, I would like to enter the prefiled testimony
23 of Ms. Menhorn, both direct and rebuttal, into the
24 record as if given orally from the stand.

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CHAIR MITCHELL: All right. Hearing no objection to that motion, the testimony of witness Menhorn prefiled in this docket on March 22nd shall be copied into the record as if given orally from the stand, and the rebuttal testimony of witness Menhorn filed in this docket on August 25th shall also be copied into the record as if given orally from the stand.

(Whereupon, the prefiled direct testimony and prefiled rebuttal testimony of Cynthia A. Menhorn was copied into the record as if given orally from the stand.)

**BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET G-9, SUB 781**

**PREPARED DIRECT TESTIMONY
OF
CYNTHIA A. MENCHORN**

**ON BEHALF OF
PIEDMONT NATURAL GAS COMPANY, INC.**

1

2 **INTRODUCTION**3 **Q. Please state your name, address, and position.**4 A. My name is Cynthia A. Menhorn. I am Vice President for MCR Performance Solutions
5 (“MCR”) and my business address is 155 Pfingsten Road, Suite 155 Deerfield, Illinois
6 60015.7 **Q. On whose behalf are you testifying in this proceeding?**8 A. I am testifying on behalf of Piedmont Natural Gas Company, Inc. for its natural gas
9 operations in North Carolina (“Piedmont” or the “Company”).10 **Q. Please provide a brief outline of your professional and educational background.**11 A. Currently, I head the Regulatory Services Practice at MCR Performance Solutions
12 (“MCR”). I have been employed by MCR since June 2008. Prior to joining MCR, I held
13 various positions at Allegheny Energy, a Mid-Atlantic utility with five state jurisdictions,

1 where I gained deep experience with regulatory commissions in numerous states and the
2 Federal Energy Regulatory Commission (“FERC”), extensive knowledge of the rate case
3 process, and widespread interaction with stakeholders. The various positions I held include
4 Director of Regulation and Rates, Director of State Regulatory Affairs, Director of Energy
5 Efficiency and Conservation at Allegheny Power, and General Manager, Pricing Services.
6 See Exhibit __ (CAM-1).

7 **Q. Have you previously testified before the North Carolina Utilities Commission**
8 **(“NCUC”)?**

9 A. No, I have not testified before the NCUC; however, I have been involved in the review of
10 rate case orders in preparation for a possible rate case filing in North Carolina. I have
11 testified on numerous occasions before other state commissions and FERC on a variety of
12 rate and regulatory topics. See Exhibit __ (CAM-1) for my experience statement including
13 a listing of previous expert testimony.

14 **PURPOSE OF DIRECT TESTIMONY**

15 **Q. What is the purpose of your direct testimony?**

16 A. The purpose of my direct testimony is to provide and sponsor the fully allocated cost of
17 service study including the targets for class revenues with newly designed rates to achieve
18 those targeted revenues.

19 **Q. Are you sponsoring any exhibits that accompany your direct testimony?**

20 A. Yes. I am sponsoring the following exhibits to accompany my direct testimony:

- 1 Exhibit__(CAM-1) Experience Statement
- 2 Exhibit__(CAM-2) Allocated Cost of Service Study
- 3 Schedule 1 – Class Cost of Service Study by Rate Schedule
- 4 Schedule 2 – Class Cost of Service by Function
- 5 Schedule 3 – Class Allocation Factors by Rate Schedule
- 6 Schedule 4 – Class Allocation Factors by Function
- 7 Schedule 5 – Class Allocation and Functionalization/Classification
- 8 Allocator Descriptions
- 9 Exhibit__(CAM-3) -- Summary of Existing and Proposed Rates and Revenues

10 **Q. Were these exhibits prepared by you or under your direction?**

11 A. Yes.

12 **COST OF SERVICE STUDY**

13 **Q. Who prepared the cost of service study that you are sponsoring in this filing?**

14 A. The cost of service study, as a fundamental tool of ratemaking in this proceeding, was
15 prepared by MCR Performance Solutions utilizing a model called COST™. COST™ is a
16 model that was developed in house by MCR on an excel based platform. COST™ follows
17 standard cost allocation principles to first functionalize rate base, expenses and revenues,
18 and then allocate those components to the rate classes. The design of the model allows
19 visibility into the development of cost of service in that all components can be tied back to

1 their primary inputs and all calculations are visible to the user of the model. Data, provided
2 in the form of supporting spreadsheets, are loaded via import routines to ensure all data are
3 accurate to the original source information. COST™ is based on a standard design and is
4 customized for each client's unique structure and regulatory situation. This model includes
5 a fully functioning rate design module for complete and thorough analysis of different rate
6 design options.

7 **Q. Why did MCR develop an in house model rather than using something developed by**
8 **utilities?**

9 A. I have utilized cost of service models developed by utilities and others throughout my
10 career, and they can be challenging to use, modify and understand. First, some are designed
11 without transparency, making updates difficult to validate; and second, without that
12 transparency and with employee turnover, there are more hurdles to overcome. MCR's
13 COST™ model is designed to be easily customized to each client's unique situation,
14 allowing MCR to develop a cost of service analysis that is accurate, transparent and easily
15 adaptable for scenario analysis.

16 **Q. Have your prepared any exhibits for the COST™ portion of this filing?**

17 A. Yes, Exhibit __ (CAM-2) Schedules 1 through 5 provide details of the cost of service that
18 are explained below.

19 **Q. What are the steps in the development of a cost of service study?**

20 A. There are three necessary steps that need to be performed for every cost of service study.
21 They are functionalization, classification, and allocation. The MCR COST™ model is

1 customized for each client's business to perform these steps. Supporting data is loaded
2 into the model to provide details required for the cost of service study. For the
3 functionalization and classification steps, the model provides results for the per books data,
4 the pro forma adjusted data and the proposed revenue adjusted data.

5 **Q. Please explain each step in more detail.**

6 A. Functionalization – First, the investment and operating costs of the Company are separated
7 into specified functional categories set forth by the Federal Energy Regulatory Commission
8 Uniform System of Accounts. For this study, we utilized the following:

- 9 • Production and Storage – This function is associated with the procurement,
10 upstream transmission, storage of commodity gas supply and includes any facilities
11 and expenses associated with production of gas.
- 12 • Transmission – Transmission function is associated with the large diameter, high-
13 pressure lines and facilities that transmit natural gas to smaller distribution assets.
- 14 • Distribution – This function is associated with investment and expenses related to
15 the assets that deliver natural gas in close proximity to natural gas loads. This
16 includes items related to connecting customers, metering, regulating and other
17 services.

18 For rate base calculations; intangible plant, general plant, other rate base additions and
19 other rate base deductions are allocated to storage, transmission and distribution functions.

20 Classification – Next, costs are classified by differentiating the costs based upon two
21 primary cost drivers which are demand-related and customer-related. Piedmont's

1 investment and expenses are classified based on the manner in which the costs were
2 incurred. Costs associated with serving peak requirements in the system are classified as
3 demand-related. Costs associated with providing customers access to and active status on
4 the distribution system are classified as customer-related. Customer-related costs are
5 incurred in a manner that is not related to the amount of gas consumed by the customer and
6 include the costs of services, meters, and billing. Some costs are related to both demand
7 and customer and are allocated appropriately. Storage and transmission items are
8 considered to be 100% demand-related while distribution items can be directly assigned to
9 either demand, customer or both based on their attributes.

10 Examples of classification include the following:

- 11 • Distribution Mains – Distribution mains are allocated based on the minimum
12 distribution study. The premise underlying the study is that the size of the main
13 will be such to serve peak load and the length of the main is based on the number
14 of customers on the main. This is the same criteria used by engineers to design the
15 system.
- 16 • Distribution Supervision Expenses – These costs are allocated based on the
17 percentages of net plant attributed directly to demand, customer and distribution
18 mains.
- 19 • Mains and Services Expense – Account 874 supports both Mains which are
20 customer and demand-related and Services which are 100% customer-related. The
21 expenses are classified into a Mains component and a Services component based

1 on gross plant. The Mains component is classified into customer and demand using
2 the minimum distribution study.

- 3 • A&G Costs – A&G costs are allocated based on the Labor study and are attributed
4 to each function based on their percentage of operating labor costs of accounts 735
5 through 916.

6 Allocation – Finally, one or more allocation factors are selected for each functionalized
7 and classified cost component, to distribute costs among rate classes. The allocation factors
8 are chosen on the basis of cost causation, which attempts to spread costs among classes in
9 proportion to their contribution to the factors that caused costs to be incurred.

10 The Piedmont cost of service study follows a system-utilization method which is consistent
11 with past practice. The demand allocator in the study is based on the Peak and Average
12 method. Through this method, fixed demand costs are allocated to both peak and off-peak
13 loads.

14 Other allocation factors are grouped into 3 main categories:

- 15 • Summary Statistics – These are statistics for each class that include throughput,
16 winter throughput and number of bills.
- 17 • Internal Allocators – These are allocators determined within the cost of service
18 study based on investment or expenses. Examples include Total Utility Plant and
19 Total O&M. These factors are calculated in the build-up of the study and applied
20 to various components.

- 1 • Special Studies – These studies are developed because of significant capital
2 investment and expenses incurred.

3 **Q. Which special studies were used in this cost of service study?**

4 A. There are four special studies that examine investment and expenses that were prepared for
5 this cost of service model:

- 6 • Labor Study – Labor costs are functionalized, classified, and then allocated to rate
7 classes based on the same factors utilized to develop the overall cost of service study.
- 8 • Meter Investment Study – The Meter Investment study analyzes the replacement
9 cost of meters by class based on current costs of comparable meters plus labor to
10 install them.
- 11 • Services Investment Study – The Services Investment Study determines the
12 aggregate investment in services based on the length and cost of services installed
13 to serve each customer class as well as the associated replacement costs.
- 14 • Minimum Distribution Study – The Minimum Distribution Study was used from the
15 prior rate case G-9, Sub 743, which was performed in 2019. During 2020, it was
16 assumed that no major changes occurred that would have significantly impacted the
17 results.

18 **Q. Describe treatment of gas costs as a part of the cost of service study?**

19 A. Gas costs are a significant portion of Piedmont's overall expense and are recovered through
20 the procedures for gas cost rate adjustments set forth in Appendix A of the Company's
21 Service Regulations. For purposes of the cost of service study, those costs are assigned

1 directly to each rate class as incurred and represented as such in the study. The exception
2 are gas costs associated with Rate Schedule 142, which is Piedmont's public fueling
3 station. These costs are allocated across all classes using the Rate Base allocator as it is
4 available to all customer classes.

5 **Q. Please summarize the results of COST™.**

6 A. The results of most significance in the context of a rate case from COST™ are the rate of
7 return by class. The rate of return signifies how each rate schedule compares to the system
8 average return. The is used in the context of the rate design and will be explained in detail
9 later in this testimony. Exhibit__(CAM-2) includes Schedules 1-5 which summarize the
10 study and provides details related to functionalization, classification, and allocation:

11 Schedule 1 – Class Cost of Service Study by Rate Schedule

12 Schedule 2 – Class Cost of Service by Function

13 Schedule 3 – Class Allocation Factors by Rate Schedule

14 Schedule 4 – Class Allocation Factors by Function

15 Schedule 5 – Class Allocation and Functionalization/Classification Allocator Definitions

16 **PIEDMONT RATE DESIGN**

17 **Q. What do utilities wish to accomplish with rate design?**

18 A. Rate design objectives vary by company. However, they all attempt to follow James
19 Bonbright's fundamental attributes of a sound rate structure. That is, utilities design rates
20 to recover costs incurred to provide services to customers. Customers are typically

1 segmented into different rate classes or rate schedules based on similar usage
2 characteristics. Rates for each rate class or rate schedule should reflect the costs to serve
3 that class of customers. Rate structures should also produce stable revenue for the utility.
4 In addition, rate structures should be simple and easy to understand. For example,
5 historically, most rates consisted of a customer charge and inclining (the rate is higher in
6 higher usage blocks) or declining (the rate is lower in higher usage blocks) block rates. In
7 the case of larger customer classes, a demand charge can be added.

8 **Q. What do you regard as the more important factors to be considered in designing rate**
9 **schedules for a utility such as Piedmont Natural Gas?**

10 A. A reasonable and practical tariff should, first and foremost, produce adequate revenue to
11 meet the requirements of the utility. In addition, I believe the following factors are
12 important considerations in rate design: 1) rates should reflect the conditions of service
13 requirement by the customers, the facilities requirements to provide the service, and the
14 effect on the system load patterns; 2) each rate should have a reasonable relationship to the
15 other rates in the tariff such that, where practical, a customer will have a reasonable price
16 schedule even if his load conditions change and he must switch from one rate schedule to
17 another; 3) rates should be designed to encourage the economical use of facilities installed
18 by the utility and also promote energy conservation; 4) rates offered must be balanced
19 between simple rate structures for like customers to more complicated structures for like
20 customers to develop overall beneficial systems load patterns; and 5) rates should
21 recognize the competitive environment faced by utilities and their customers.

22 **Q. Please describe the Company's existing rate schedules.**

- 1 A. The Company's existing rate schedules are described as follows:
- 2 1. Rate Schedule 101 (Residential Service): The Company's residential class rate
3 schedule includes a customer charge and a seasonal per-therm delivery charge.
- 4 2. Rate Schedule 102 (Small General Service): The Company's rate schedule for non-
5 residential customers with average daily use less than 20 dekatherms per day, which
6 includes a customer charge and a seasonal per-therm delivery charge.
- 7 3. Rate Schedule 152 (Medium General Service): The Company's rate schedule for
8 non-residential customers with average daily use between 20 and 50 dekatherms
9 per day, which includes a customer charge and a seasonal declining block per-therm
10 delivery charge. The first block is all usage up to 50,000 therms. The second block
11 is all other usage. It is important to note that the base margin rates changing in this
12 rate case are the same for both blocks.
- 13 4. Rate Schedule 144 (Experimental Medium General Motor Fuel – Transportation):
14 The Company's experimental motor fuel transportation schedule currently has zero
15 customers and has the exact same customer charge and per-therm delivery charge
16 as Schedule 152.
- 17 5. Rate Schedule 142 (Natural Gas Vehicle Service): The Company's natural gas
18 vehicle schedule includes a per-therm delivery charge and a per-therm fuel rider
19 charge for service at Company premises.
- 20 6. Rate Schedule T-10 (Military Transportation Service): The Company's military
21 transportation schedule for military bases with use greater than 5,000 dekatherms
22 per day includes a customer charge and a seasonal per-therm delivery charge.

- 1 7. Rate Schedule 105 (Outdoor Gas Lighting Service): The Company's outdoor
2 lighting schedule includes a fixture charge.
- 3 8. Rate Schedules 103 and 113 (Large General Sales Service and Large General
4 Transportation Service): The Company's firm large volume rate schedules contain
5 a customer charge, demand charge, and seasonal declining block per-therm delivery
6 charges. There are six block rates: up to 15,000 therms, the next 30,000 therms,
7 the next 90,000 therms, the next 165,000 therms, the next 300,000 therms, and all
8 other therms.
- 9 9. Rate Schedules 104 and 114 (Interruptible Sales Service and Interruptible
10 Transportation Service): The Company's interruptible large volume rate schedules
11 contain a customer charge and seasonal declining block per-therm delivery charges.
12 There are six block rates: up to 15,000 therms, the next 30,000 therms, the next
13 90,000 therms, the next 165,000 therms, the next 300,000 therms, and all other
14 therms.

15 **Q. Does Piedmont have any customers that are served under long term contracts rather**
16 **than tariffs?**

17 A. Yes. Long-term contracts with non-tariff rates are approved by the NCUC prior to
18 initiation of service to the customer.

19 **Q. What types of customers are served by these long-term contracts?**

20 A. The customers span from large electric generation, municipals and others who contract for
21 service whereby the customer commits to pay rates over a multi-year period to provide the

1 Company an appropriate revenue stream based upon the investments made at the
2 customers' facilities to provide that service.

3 **Q. Are the Company's rate schedules currently earning a rate of return close to or equal**
4 **to the system average?**

5 A. No, they are not. As shown in the cost-of-service study, at the pro forma level, most classes
6 are not earning a rate of return close to or equal to the system average. In fact, some classes
7 have an indexed rate of return ("IRR") three to five times the system average, while others
8 have a negative rate of return. The Company's allocation of the revenue increase will work
9 to adjust these rates of return and move them closer to the system average.

10 **CAM Table -1**

Rate Schedule	Description	Proforma Existing Rates		Proposed Rates	
		ROR	ROR Index	ROR	ROR Index
101	Residential	5.24%	0.95	7.56%	1.04
102	Small General	8.89%	1.60	11.66%	1.60
152	Medium General	14.99%	2.70	18.44%	2.54
103	Large General Sales	-2.60%	(0.47)	-1.54%	(0.21)
113	Large General Transportation	-3.02%	(0.55)	-1.62%	(0.22)
103/113	<i>Large General Combined</i>	-2.97%	(0.54)	-1.61%	(0.22)
104	Large Interruptible Sales	31.13%	5.62	34.24%	4.71
114	Large Interruptible Transportation	20.52%	3.70	23.12%	3.18
104/114	<i>Large Interruptible Combined</i>	20.79%	3.75	23.40%	3.22
T-10	Military Transportation	-2.76%	(0.50)	-1.78%	(0.25)
Overall Rate of Return		5.54%	1.00	7.27%	1.00

11
12 **Q. Please describe the steps taken to allocate the proposed revenue increase to the**
13 **Company's rate schedules.**

1 A. The requested total revenue increase to be allocated to the rate schedules is \$109,025,725.
2 This represents an 11.9% increase in pro forma sales and transportation tariff system
3 revenue (which are the base margin revenues and the cost of gas revenues). Subsequently,
4 except when further changes (as listed below) are warranted, rate schedules received a
5 revenue increase consistent with the overall system increase of 11.9%. The rate schedules
6 that received an 11.9% revenue increase are Rate Schedules 101, 102, 142, and 105. To
7 further reduce the IRRs of the two most over-earning rate schedules, Rate Schedules 152
8 and 104/114 were given only a 10.9% and 5.2% revenue increase, respectively. In order
9 to bring the IRRs of Rate Schedules 103/113 and T-10 (which are both negative) even
10 closer to the system average, those classes were given an increase of 15.4% and 17.5%,
11 respectively. Those extremely under-earning classes were limited in their increase so to
12 not increase revenues more than 20.0% to mitigate rate shock to those customers. These
13 changes are depicted in Table CAM-2 below.

14

1

Table CAM-2

Rate Schedule	Description	Proposed Changes to Operating Revenue			
		Proforma Revenue	Proposed Increase	Proposed Revenue	% Change
101	Residential	552,245,619	65,819,939	618,065,558	11.9%
102	Small General	250,716,149	29,959,367	280,675,516	11.9%
152	Medium General	40,884,097	4,439,455	45,323,552	10.9%
142	Natural Gas Vehicle Fuel	1,036,559	122,934	1,159,493	11.9%
105	Gas Light Service	102,158	12,116	114,274	11.9%
103	Large General Sales	12,877,879	683,590	13,561,470	5.3%
113	Large General Transportation	31,593,584	6,167,340	37,760,924	19.5%
103/113	<i>Large General Combined</i>	<i>44,471,463</i>	<i>6,850,930</i>	<i>51,322,393</i>	<i>15.4%</i>
104	Large Interruptible Sales	2,960,467	41,469	3,001,936	1.4%
114	Large Interruptible Transportation	24,611,818	1,383,895	25,995,714	5.6%
104/114	<i>Large Interruptible Combined</i>	<i>27,572,286</i>	<i>1,425,364</i>	<i>28,997,650</i>	<i>5.2%</i>
T-10	Military Transportation	2,261,796	395,620	2,657,416	17.5%
Tariff Sales & Transportation Revenue		919,290,128	109,025,725	1,028,315,853	11.9%
	Special Contracts	126,595,463	-	126,595,463	0.0%
Total Sales & Transportation Revenue		1,045,885,592	109,025,725	1,154,911,316	10.4%
	Other Revenue	1,136,144	-	1,136,144	0.0%
Total Operating Revenue		1,047,021,735	109,025,725	1,156,047,460	10.4%

2

3 **Q. Please describe how the revenue allocation adjusts the IRRs developed in the cost-of-**
4 **service study.**

5 A. The revenue allocation described above greatly improves the IRRs of the Company's rate
6 schedules. When the proposed revenues are entered into the cost-of-service study, the IRRs
7 of each rate schedule moves closer to the system average or remains the same.
8 Additionally, the extremely over-earning and under-earning rate schedules all have made
9 significant movement towards the system average. See Table CAM-1 for results.

10 **Q. Please describe the steps taken to perform the rate design to ensure recovery of the**
11 **proposed revenue.**

1 A. The revenue allocation was designed to decrease the inter-class subsidies between rate
2 classes. By moving the rate classes closer to system parity, customers are moving closer
3 to rates that recover only the costs that they incur. Just as a proper revenue allocation
4 reduces inter-class subsidies, a proper rate design reduces intra-class subsidies and ensures
5 that the proposed revenue is more likely to be recovered. This is accomplished by making
6 sure that the costs by component (customer, demand, and delivery) are recovered in their
7 respective types of charges (customer, demand, and delivery charges). This is not always
8 possible due to certain classes not containing a demand charge, or the Company's need or
9 intent to keep certain charges low. Nonetheless, in the following rate design, the Company
10 is providing a rate design that is intended to move customer classes closer to parity without
11 customer classes experiencing rate shock.

12 For example, the extremely under-earning classes have taken a step towards system parity
13 but could have been assigned additional revenues to bring them even closer. However, the
14 Company limited the increase of any given schedule to 20.0%. If the revenue deficiency
15 was to change, these allocations should be adjusted to continue to move the classes closer
16 to system parity while maintaining that percentage cap.

17 Additionally, to maintain consistency with customer bills in the Company's proposed rate
18 design, no rate schedule received a customer charge increase. Rate Schedules 103 and 113
19 had their demand rates increased by 10%. The remaining revenue increase was applied to
20 the delivery and fixture charges.

21 **Q. Why were no customer charges increased?**

1 A. An increase in the customer charge must be considered very carefully. Traditionally, the
 2 majority of a utility's customer costs are recovered in the demand and delivery charges on
 3 a customer's bill. As customer costs have increased and customer charges remained static,
 4 the amount of customer costs recovered in customer charges has been dwindling. Table
 5 CAM-3 shows the percentage of costs recovered in the current customer charge compared
 6 to what the fully allocated customer charge would be. This has put modern utilities in a
 7 difficult position, having to weigh the amount of fixed costs recovered in a variable rate
 8 with the need to make sure that customers are not overwhelmed with a substantial change
 9 in the make-up of their bill and to promote energy efficiency. In this proceeding, the
 10 Company is not increasing the customer charges for any class, which is consistent with
 11 their treatment in the prior rate case. However, the Company recognizes that many of their
 12 classes are not recovering even half of their customer costs in customer charges.

13 **Table CAM-3**

Rate Schedule	Description	COST Based Customer Charge	Actual Customer Charge	Amount of Costs Recovered
101	Residential	\$19	\$10	52%
102	Small General	\$74	\$22	30%
152	Medium General	\$1,602	\$75	5%
103	Large General Sales	\$739	\$350	47%
113	Large General Transportation	\$1,415	\$350	25%
104	Large Interruptible Sales	\$903	\$350	39%
114	Large Interruptible Transportation	\$1,852	\$350	19%
T-10	Military Transportation	\$34,098	\$0	0%

14
 15 **Q. Why were demand charges limited to a 10% increase?**

1 A. Demand charges have been limited to a 10% increase in an effort to promote energy
2 efficiency and not introduce too much change in a single proceeding. In a perfect rate-
3 making world, all demand costs would be recovered through demand charges. However,
4 realistically, customers should not experience a major shift to demand charges in one
5 proceeding; therefore, changes should occur at a gradual pace. For these reasons, the
6 demand charges, which are included only in Rate Schedules 103 and 113, have been limited
7 to a 10% increase.

8 **Q. Please describe the steps taken to perform the rate design for Rate Schedules 101,**
9 **102, 152, and 144.**

10 A. The total revenue allocation, as shown on Exhibit __ (CAM-3), for these rate schedules was
11 applied to the delivery charge. The customer charge, as mentioned above, received no
12 increase. As Rate Schedule 144 has no billing determinants and, therefore, has no revenue,
13 their customer charge and delivery rates have been set equal to the proposed rates of Rate
14 Schedule 152, consistent with their current treatment.

15 **Q. Please describe the steps taken to perform the rate design for Rate Schedule 142.**

16 A. The total revenue allocation, as shown on Exhibit __ (CAM-3), for Rate Schedule 142 was
17 applied to the delivery charge. The rate schedule's Fuel Charge Rider has not been
18 assigned any increase, which is the same treatment given in the Company's prior rate case.

19 **Q. Please describe the steps taken to perform the rate design for Rate Schedule T-10.**

1 A. The total revenue allocation, as shown on Exhibit __ (CAM-3), for Rate Schedule T-10 was
2 applied to the delivery charge. The percent of revenue assigned to the summer and winter
3 delivery charges has been maintained from the proforma revenue at current rates.

4 **Q. Please describe the steps taken to perform the rate design for Rate Schedule 105.**

5 A. The total revenue allocation, as shown on Exhibit __ (CAM-3), for Rate Schedule 105 was
6 applied to the fixture charge.

7 **Q. Please describe the steps taken to perform the rate design for Rate Schedules 103,
8 113, 104, and 114.**

9 A. The total revenue allocation, as shown on Exhibit __ (CAM-3), for these rate schedules was
10 applied to the delivery charges and demand charges. The customer charges, as mentioned
11 above, received no increase. Additionally, the demand charges for the applicable rate
12 schedules received only enough of the revenue allocated to increase their rates by 10%.

13 Rate Schedules 103 and 113 are the same class of customer, except that Rate Schedule 113
14 customers receive gas transportation service only. Accordingly, their customer charges,
15 demand charges, and delivery charges are the same. Rate Schedules 104 and 114 are also
16 the same class of customer, except that Rate Schedule 114 customers receive gas
17 transportation service only. Therefore, their base rates are also the same.

18 Finally, the percentage of revenues assigned to the declining block rates for these rate
19 schedules has been adjusted to accomplish three things. First, the firm customers of Rate
20 Schedules 103 and 113 should have almost equal or higher delivery charges than the
21 interruptible customers on Rate Schedules 104 and 114, as the interruptible customers

1 should have a slight discount in return for the Company's right to interrupt their service.
2 While this was not completely possible for all the step rates given the allocated revenues
3 to the classes, movement has been made towards this goal. Second, the rates should be
4 true declining block rates, in that each subsequent block's rates should be less than the rates
5 of the previous block. This is not always the case in the current rates. Third, the winter
6 rates should be higher than the summer rates, due to the pressure put on the system in the
7 winter being heavier than in the summer.

8 **Q. Please describe the proposed changes to the demand rates for the cost of gas.**

9 A. There are no proposed changes to the gas cost demand rates in this proceeding. This will
10 be further explained in Piedmont witness Kally Couzens' testimony.

11 **Q. Please comment on the impact of the proposed rate changes on Piedmont's recovery**
12 **of its overall costs of providing service to customers.**

13 A. The proposed rate changes presented here provide a move to the overall company's return
14 while displaying sound cost causation and gradualism rate design goals.

15 **Q. Does this conclude your direct testimony?**

16 A. Yes.

**BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET G-9, SUB 781**

**PREPARED REBUTTAL TESTIMONY
OF
CYNTHIA A. MENCHORN**

**ON BEHALF OF
PIEDMONT NATURAL GAS COMPANY, INC.**

1

2 **INTRODUCTION**

3 **Q. Please state your name, address, and position.**

4 A. My name is Cynthia A. Menhorn. I am Vice President for MCR Performance
5 Solutions (“MCR”) and my business address is 155 Pfingsten Road, Suite 155
6 Deerfield, Illinois 60015.

7 **Q. Have you previously testified in this proceeding?**

8 A. Yes, I submitted direct testimony in this proceeding on behalf of Piedmont Natural
9 Gas Company, Inc. (“Piedmont” or “the Company”) on March 22, 2021.

10 **Q. What is the purpose of your rebuttal testimony?**

11 A. The purpose of my rebuttal testimony is to respond to the direct testimony of
12 Carolina Utility Customer Association, Inc. (“CUCA”) witness Kevin O’Donnell,
13 and Carolina Industrial Group for Fair Utility Rates IV (“CIGFUR IV”) witness
14 Nicholas Phillips, in particular the appropriate cost of service study allocation
15 method for distribution mains. In addition, I would like to explain witness
16 O’Donnell’s misunderstanding of my statement regarding rates of return and
17 movement in my direct testimony.

1 I will also be responding to the testimony of Nicholas Phillips, Jr. regarding
2 revenue allocation to classes and the Company's block rate design.

3 In addition, I will also be responding to the direct testimonies of the above
4 witnesses along with the direct testimony of Jack Floyd regarding the
5 appropriateness of moderate changes when allocating the revenue increase to rate
6 classes.

7 **COST OF SERVICE ALLOCATION METHODOLOGY**

8 **Q. How do witnesses Phillips and O'Donnell propose allocating the costs for**
9 **distribution mains?**

10 A. Witness O'Donnell, on pages 87-90 of his direct testimony, advances the use of
11 allocating distribution mains to rate classes solely using the class contribution to
12 the peak demand in any given year, referred to as the Peak methodology. Witness
13 Phillips proposes the same methodology on page 3 of his direct testimony. Under
14 this method, interruptible customers would be allocated little or, in the case of a
15 Peak Design Day methodology, none of the distribution mains costs.

16 **Q. Should witnesses Phillips and O'Donnell's proposal be accepted by the**
17 **Commission?**

18 A. No. Witness O'Donnell correctly states that Piedmont's system is designed on a
19 day where, when gas demand is at its highest, interruptible customers will be
20 interrupted and will not be using the system's distribution mains. However, this
21 contradicts the way that the system is in fact used every day. The simple truth is
22 that, almost every single day of a given year, interruptible customers make use of
23 the distribution mains on Piedmont's system. It is unreasonable to believe that a

1 part of the system used *almost* every day by a certain class should not have a portion
2 of its costs recovered by that class.

3 In fact, without the distribution mains, interruptible customers would not be
4 able to receive gas from Piedmont's system at all. There are systems that are
5 designed in a way where customers do not use a portion of the system. In certain
6 electric utilities, there are customers that receive electricity directly from a
7 company's transmission lines. In that instance, they do not use the electric
8 company's primary or secondary lines at all. In that example, those transmission
9 customers should not be assigned any of the primary or secondary costs in the cost
10 of service study. However, that is a far different scenario than we are discussing
11 here with Piedmont's system and interruptible customers, who need to use the
12 distribution mains to receive service.

13 This is not to say that the nature of interruptible customers should be ignored
14 either. It is, of course, true that interruptible customers can be asked to interrupt
15 their use of the system during extreme demand periods. Therefore, it is appropriate
16 that at least part of the allocation for distribution mains should be based on that
17 peak. This is the reason why I have proposed the allocation method outlined in my
18 direct testimony. It recognizes both the design of the system *and* its everyday
19 usage, which is the most reasonable and prudent method of assigning costs in this
20 instance.

21 **Q. Has your methodology been accepted by the Commission before?**

22 A. Yes. The Peak and Average allocation methodology for distribution mains has been
23 accepted by the Commission in prior cases. Additionally, as witness O'Donnell

1 says on page 86 of his direct testimony, it is also a methodology that has been used
2 by Public Staff for quite some time. The methodology in my direct testimony has
3 been tried and tested by this Commission and has previously been found to be the
4 most reasonable. It continues to be the most reasonable.

5 **REVENUE ALLOCATION TO RATE CLASSES**

6 **Q. What does witness Phillips consider to be a reasonable method to allocate**
7 **revenue increases to rate classes?**

8 A. On pages 12 and 13 of witness Phillips direct testimony, he references the testimony
9 of Michael Pirro in a prior Duke Energy Carolinas rate case. In that quote, Mr.
10 Pirro defines a range of reasonableness for where an individual class' rate of return
11 should fall compared to the total Company rate of return. Specifically, he defines
12 that range of reasonableness as being within 10 percent of the system average which
13 was the designated desire by the Company in that particular case for the revenue
14 allocation. That range of reasonableness is just that, a range of reasonableness not
15 an absolute.

16 **Q. Is that range of reasonableness an appropriate goal in revenue allocation?**

17 A. Yes. One of the primary, if not *the* primary goal of revenue allocation, is to move
18 customer classes towards the system average rate of return. In this case, I
19 accomplish this, and showed this move by comparing the indexed rates of return
20 ("IROR") for each class to a system average of 1.00. In witness Phillips' example,
21 that would place the IROR band of reasonableness between 0.90 and 1.10 for any
22 individual class. It would be inappropriate to, without specific reasons, move a
23 customer class's IROR further from 1.00 than it already is. My proposed revenue

1 allocation moves every class's IROR closer towards that band of reasonableness.
2 My direct testimony shows this movement on CAM Table-1 on page 13.

3 **Q. Why is your revenue allocation a more reasonable alternative than the**
4 **proposed revenue allocations of witnesses Phillips and O'Donnell?**

5 A. Moving rates of return to the band of reasonableness is the goal of revenue
6 allocation, but it must be tempered by other rate design principles as well as other
7 prudent Company goals. One of those principles, gradualism, encourages
8 moderation in shifts to the rates of return so that customers are not overly burdened
9 by a sudden change in rates. I have moved towards that band of reasonableness in
10 my revenue allocation, but in a more moderate and measured approach than that of
11 witnesses Phillips and O'Donnell. This moderated movement towards the system
12 average is the most reasonable proposal as it works to gradually move classes
13 towards the system average without making extreme class revenue changes causing
14 customers to experience rate shock. In addition, my proposed revenue allocation
15 takes into account all customer classes. This approach ensures that the revenue
16 allocation is not overly burdensome for one class of customers while working
17 towards the overall goal of moving customer classes closer to the overall IROR.

18 **Q. Does witness O'Donnell mention anything else in his testimony that you wish**
19 **to comment on?**

20 A. Yes, on pages 91 and 92 of his direct testimony he references my direct testimony
21 as being incorrect based upon his Table 12 on page 91 of his direct testimony.

1 **Q. Is witness O'Donnell correct?**

2 A. No, he is looking at the absolute class rate of return value and not the indexed value.

3 **Q. Please explain.**

4 A. What witness O'Donnell is misunderstanding is that it is possible to increase a
5 class' revenue while also bringing it closer to the total system rate of return. When
6 a class has an increase less than the average increase across all classes, that class'
7 IROR decreases. This is what occurred in my proposal. Again, upon examining
8 CAM Table-1 on page 13 of my direct testimony, no class has moved further from
9 the system average IROR of 1.00.

10 **Q. Is there anything else that may be complicating the issue for witness**
11 **O'Donnell?**

12 A. Yes, I believe the other factor that he is missing is that the revenues that are put
13 back into the COSTTM model to calculate the final rate of return and indexed rate
14 of return are based upon proforma billing determinants. So the original statement
15 in my direct testimony stating that the "IRRS of each rate schedule moves closer to
16 the system average or remains the same" is in fact correct.

17 **DECLINING BLOCK RATE STRUCTURE DESIGN**

18 **Q. What does witness Phillips recommend regarding the declining block rate**
19 **structure design in classes 113 and 114?**

20 A. On page 17 of his direct testimony, witness Phillips recommends that the initial
21 usage blocks in the declining block rate structure of rate classes 113 and 114 should
22 assume the full fixed costs allocated to those classes, with the remaining usage
23 blocks recovering only variable costs.

1 **Q. Is this a reasonable recommendation?**

2 A. The concept is reasonable, but witness Phillips does not make a specific proposal
3 that can be evaluated. It is the goal of rate design for the fixed (or customer) costs
4 assigned to a rate class be recovered by all customers in that class. One method to
5 accomplish that is to place these customer costs within the customer charge. In a
6 declining block rate structure, another method to accomplish this is by placing the
7 customer costs remaining (after assigning some to the customer charge) within the
8 initial few low-usage blocks. However, there is no way to say that these customer
9 costs are not recovered in these initial blocks in my proposed rate design. For
10 example, in the rate design for rate classes 103 and 113, the proposed revenue for
11 the initial two blocks for both summer and winter rates is \$8,238,819. However,
12 the customer costs not recovered by the customer charges of rate classes 103 and
13 113 is only \$4,315,587, far less than what is recovered in the initial two blocks.

14 If witness Phillips had proposed a different block proposal, I could offer a
15 recommendation on whether my rate design is more reasonable than his. However,
16 without a proposal to compare, I do not see how his proposal is not already being
17 accomplished in the rate design that I proposed.

18 **Q. Do you wish to comment on witnesses Phillips and O'Donnell's**
19 **recommendations for the treatment of Special Contract revenues?**

20 A. Yes, both witnesses Phillips and O'Donnell disagree with my treatment of Special
21 Contract revenues. It would be difficult to accept those recommendations of
22 witness Phillips and O'Donnell and the reasoning for that is addressed in the
23 rebuttal testimony of Company witness Couzens.

1

CONCLUSION

2 **Q. What is your conclusion regarding this rebuttal testimony?**

3 A. It is my belief that the revenue allocation and rate design proposed by the Company
4 have taken into consideration all customer classes and provided a revenue
5 allocation and rate design that moves all classes in a manner that is reasonable for
6 both the customers and the Company. My revenue allocation and rate design
7 proposal should be accepted as filed.

8 **Q. Does this conclude your rebuttal testimony?**

9 A. Yes.

1 MS. DEMOPOULOS: Thank you,
2 Chair Mitchell. I would also ask that the Exhibits
3 CAM-1 through CAM-3 also be identified as marked.

4 CHAIR MITCHELL: All right. The
5 exhibits to the witness' testimony shall be marked
6 for identification as they were when prefiled.

7 (Exhibits CAM-1 through CAM-3, were
8 identified as they were marked when
9 prefiled.)

10 MS. DEMOPOULOS: Thank you.

11 Q. Ms. Menhorn, have you prepared a summary of
12 your prefiled testimony?

13 A. Yes, I have.

14 Q. Could you please share that with the
15 Commission.

16 A. Sure.

17 My name is Cynthia Menhorn, and I am vice
18 president of MCR Performance Solution. I prefiled
19 direct testimony in this docket on March 22, 2021, in
20 support of Piedmont's application for a general rate
21 increase. On August 25, 2021, I submitted prefiled
22 rebuttal testimony in this proceeding. My prefiled
23 direct testimony provides and sponsors the fully
24 allocated cost of service study, including targets for

1 class revenues and rates designed to achieve those
2 targeted revenues. I describe and provide the
3 rationale for the functionalization, classification,
4 and allocation factors used in that model.

5 My direct testimony discusses important
6 factors considered in designing rates for the Company's
7 rate schedules. Rates of return for existing rate
8 schedules at existing rates, and the allocation of the
9 proposed revenue increase to the rate schedules in
10 order to improve the indexed rates of return.

11 My testimony demonstrates that Piedmont's
12 proposed allocation of revenues and rate design is
13 reasonable, consistent with previous rate design
14 proposals approved in prior proceedings before this
15 Commission, and does not unduly burden any of the
16 customer classes.

17 My direct testimony is supported by the
18 following three exhibits: one, my experience statement;
19 two, the allocated cost of service study including
20 schedules 1 through 5; and three, summary of existing
21 and proposed rates and revenue.

22 I submitted prefiled rebuttal testimony in
23 this docket on August 25, 2021, in response to various
24 matters raised by Commission Public Staff witnesses and

1 intervenor witnesses. Specifically, I respond to
2 concerns and recommendations related to the following
3 four topics raised by Public Staff witness Jack Floyd,
4 by Carolina Utility Customer Association witness
5 Kevin O'Donnell, and by Carolina Industrial Group for
6 Fair Utility Rates witness Nicholas Phillips:

7 Number 1, Piedmont's recommended allocation
8 methodology; number 2, Piedmont's calculation of rates
9 of return and movement towards unity; number 3,
10 Piedmont's revenue allocation to classes; and number 4,
11 Piedmont's declining block rate design.

12 This concludes the summary of my prefiled
13 direct and rebuttal testimony.

14 Q. Thank you, Ms. Menhorn.

15 MS. DEMOPOULOS: At this time, Piedmont
16 will make Ms. Menhorn available for any questions.

17 CHAIR MITCHELL: All right. My notes
18 indicate that there is no cross for the witness,
19 but I'll pause to make sure that's the case.

20 (No response.)

21 CHAIR MITCHELL: All right. I'm not
22 hearing any cross examination.

23 Questions from the Commission.

24 Commissioners have questions for the witness?

1 (No response.)

2 CHAIR MITCHELL: Not seeing any. I do
3 have two for you, Ms. Menhorn. And these are
4 coming from our staff, so bear with me here.

5 EXAMINATION BY CHAIR MITCHELL:

6 Q. Referring to your tables that you provided in
7 your direct testimony, Table 1 occurs on page 13 of
8 your direct testimony, and then Table 2 occurs on
9 page 15 of your direct testimony. We'd like a
10 late-filed exhibit providing a similar table to Table 1
11 depicting the rate of return and rate of return index
12 for Piedmont's stipulated rates for the two -- for the
13 following two scenarios: excluding Robeson LNG and
14 Pender Onslow, and the second scenario would be
15 including LNG and Pender Onslow.

16 A. That can be prepared and will be provided.

17 Q. Okay.

18 A. I'm looking for my attorneys to get that into
19 the record.

20 Q. All right.

21 CHAIR MITCHELL: Ms. Demopoulos, just
22 give me the nod to make sure you got that first
23 one. Okay.

24 Q. Here's the second one. We'd like a second

1 late-filed exhibit, this time similar to the table you
2 provided, Table 2, depicting the proposed increase,
3 proposed revenue, and percent change for Piedmont's
4 operating scenario for the same two scenarios:
5 excluding Robeson and Pender Onslow, and then the
6 second scenario, including Robeson and Pender Onslow.

7 A. Yes, that will be provided as well.

8 Q. Okay. All right. And that's all I have for
9 you, Ms. Menhorn.

10 CHAIR MITCHELL: I'll make sure my
11 fellow Commissioners -- nothing further for the
12 witness?

13 (No response.)

14 CHAIR MITCHELL: All right.
15 Ms. Menhorn, thank you for your participation in
16 this case. You may step down.

17 Ms. Demopoulos, any intent to recall the
18 witness?

19 MS. DEMOPOULOS: No, no intention.

20 CHAIR MITCHELL: All right. You are
21 excused from the proceeding, ma'am.

22 THE WITNESS: Thank you.

23 CHAIR MITCHELL: All right. And I will
24 take a motion.

1 MS. DEMOPOULOS: Yes. Chair Mitchell,
2 at this time, we would move to admit Exhibits CAM-1
3 through CAM-3 into the evidentiary record.

4 CHAIR MITCHELL: All right.
5 Ms. Demopoulos, is that all of her -- that's not
6 all of her exhibit -- that does not include all of
7 the exhibits to her testimony, does it?

8 MS. DEMOPOULOS: It does. These are
9 exhibits to the prefiled direct testimony.

10 CHAIR MITCHELL: Okay. All right.
11 Okay. Hearing no objection to the motion, it will
12 be allowed.

13 (Exhibits CAM-1 through CAM-3, were
14 admitted into evidence.)

15 MS. DEMOPOULOS: Thank you.

16 CHAIR MITCHELL: And the exhibits will
17 be accepted into evidence. Okay. All right.

18 Ms. Menhorn, thank you. She's already
19 left us. All right.

20 Piedmont, you may call your next
21 witness.

22 MR. JEFFRIES: Thank you,
23 Chair Mitchell. Piedmont would call
24 Ms. Quynh Bowman to the stand.

1 CHAIR MITCHELL: There you are,
2 Ms. Bowman. Good morning.

3 THE WITNESS: Good morning.

4 CHAIR MITCHELL: Please raise your right
5 hand.

6 Whereupon,

7 QUYNH P. BOWMAN,
8 having first been duly affirmed, was examined
9 and testified as follows:

10 CHAIR MITCHELL: All right. Thank you.
11 And, Mr. Jeffries, you may proceed.

12 MR. JEFFRIES: Thank you,
13 Chair Mitchell.

14 DIRECT EXAMINATION BY MR. JEFFRIES:

15 Q. Good morning, Ms. Bowman.

16 A. Good morning.

17 Q. Could you state your name and business
18 address for the record, please.

19 A. My name is Quynh Bowman. My business address
20 is 4720 Piedmont Row Drive, Charlotte, North Carolina.

21 Q. And where do you work, Ms. Bowman?

22 A. At Piedmont Natural Gas.

23 Q. And what's your position at Piedmont?

24 A. My position is the director of gas rates and

1 regulatory strategy.

2 Q. Thank you. And are you the same Quynh Bowman
3 that prefiled direct testimony in this proceeding on
4 March 22, 2021, consisting of 23 pages?

5 A. I am.

6 Q. And also attached to that testimony were
7 Exhibits QPB-1 through QPB-8; is that correct?

8 A. Yes.

9 Q. And then you also filed supplemental
10 testimony in this proceeding on July 28, 2021,
11 consisting of 15 pages; is that correct?

12 A. Yes.

13 Q. And along with that testimony, you also
14 provided exhibits marked QPB-1 Updated through QPB-8
15 Updated, correct?

16 A. Yes.

17 Q. And then finally, on August 25, 2021, you
18 filed rebuttal testimony in this proceeding consisting
19 of 14 pages, correct?

20 A. Yes.

21 Q. All right. And was that testimony and were
22 those exhibits prepared by you or under your direction?

23 A. Yes.

24 Q. And if I -- I'm sorry.

1 Do you have any corrections to your prefiled
2 testimony or exhibits?

3 A. I have no corrections.

4 Q. Okay. Thank you. If I asked you the same
5 questions that are set forth in your prefiled
6 testimonies while you were on the stand today, would
7 your answers be the same?

8 A. Yes.

9 Q. All right. Thank you.

10 MR. JEFFRIES: Chair Mitchell, we'd ask
11 that Ms. Bowman's prefiled direct, supplement, and
12 rebuttal testimonies be entered into the record as
13 if given orally from the stand.

14 CHAIR MITCHELL: All right. The direct
15 testimony of Piedmont witness Bowman filed in the
16 docket on March 22nd shall be copied into the
17 record as if given orally from the stand, the
18 supplemental testimony of Piedmont witness Bowman
19 filed in the docket on July 28th shall be copied
20 into the record as if given orally from the stand;
21 and the rebuttal testimony of Piedmont witness
22 Bowman filed in the docket on August 25th shall be
23 called into the record as if given orally from the
24 stand.

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(Whereupon, the prefiled direct testimony, prefiled supplemental testimony, and prefiled rebuttal testimony of Quynh P. Bowman was copied into the record as if given orally from the stand.)

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Sep 14 2021

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Direct Testimony and Exhibits
of
Quynh P. Bowman**

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

1 **Q. Ms. Bowman, please state your name and business address.**

2 A. My name is Quynh Pham Bowman. My business address is 4720
3 Piedmont Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am the Director – Gas Rates & Regulatory Strategy for Piedmont Natural
6 Gas Company, Inc. (“Piedmont” or “the Company”). In this capacity, I
7 am responsible for a variety matters including supporting the development
8 and execution of rate requests and financial report filings by Piedmont.

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

10 A. I received a Bachelor of Arts degree in Accounting from Furman
11 University and subsequently earned a Master of Accounting from North
12 Carolina State University. I received my Certified Public Accountant
13 license (NC Certificate #34214) in 2009 that remains active. I am
14 currently pursuing a Master of Business Administration with an Energy
15 Concentration from the University of North Carolina Charlotte.

16 From 2007 through 2010, I was employed at McGladrey & Pullen,
17 LLP (now RSM) to perform external financial audits for various clients.
18 Since 2010, I have worked at Piedmont and Duke Energy in various roles
19 including Internal Audit, SOX Compliance, Enterprise Risk Management,
20 and, now currently, Gas Rates & Regulatory Strategy.

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

1 A. I have not previously testified before the North Carolina Utilities
2 Commission but have presented testimony before the Tennessee Public
3 Utility Commission.

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

5 A. My testimony is filed in support of Piedmont's application in this case.
6 Specifically, the purpose of my testimony is to explain and support: (1)
7 Piedmont's rate base at December 31, 2020 and the actual results of
8 Piedmont's operations for the twelve month period ending December 31,
9 2020 (the "Test Period"); (2) the results of Piedmont's Test Period
10 operations under present rates, as adjusted for accounting and pro forma
11 changes to the Company's operating revenue, operating expense, capital
12 structure and rate base; (3) the additional revenue required to appropriately
13 support Piedmont's pro forma cost of service; (4) Piedmont's compliance
14 with NCUC Form G-1 Minimum Filing Requirements for this general rate
15 case application; and (5) the amortization of certain deferred expenses that
16 have been previously granted regulatory asset treatment by the
17 Commission.

18 **Q. Do you have any exhibits supporting your testimony?**

19 A. Yes. The following exhibits are included with my testimony:
20 Exhibit_(QPB-1) Summary of Rate Base
21 Exhibit_(QPB-2) Original Cost of Property Used and Useful
22 Exhibit_(QPB-3) Accumulated Depreciation of Property Used and Useful
23 Exhibit_(QPB-4) Working Capital

1 Exhibit_(QPB-5) Accumulated Deferred Income Taxes

2 Exhibit_(QPB-6) Depreciation Policy and Rates

3 Exhibit_(QPB-7) Net Operating Income and Rates of Return

4 Exhibit_(QPB-8) Piedmont Balance Sheet and Income Statement

5 **Q. Were these exhibits prepared by you or under your direction and**
6 **supervision?**

7 A. Yes.

8 **Q. Are you familiar with the accounting procedures and books of**
9 **account of Piedmont?**

10 A. Yes. The books of account of Piedmont follow the Uniform System of
11 Accounts prescribed by the Federal Energy Regulatory Commission. The
12 Test Period amounts shown on all of my exhibits are those represented on
13 Piedmont's books of account, and all of the pro forma adjustments shown
14 on my exhibits conform to the Company's accounting procedures.

15 **Q. What steps does the Company take to ensure that its books and**
16 **records are accurate and complete?**

17 A. Piedmont maintains and relies upon an extensive system of internal
18 accounting controls and audits by both internal and external auditors. The
19 system of internal accounting controls provides reasonable assurance that
20 all transactions are executed in accordance with management's
21 authorization and are recorded properly. The system of internal
22 accounting controls is reviewed annually, tested and documented by the
23 Company to provide reasonable assurance that amounts recorded on the

1 books and records of the Company are accurate and proper. In addition,
2 independent certified public accountants perform an annual audit to
3 provide assurance that internal accounting controls are operating
4 effectively and that the Company's financial statements are materially
5 accurate.

6 **Piedmont's Rate Base**

7 **Q. Please explain the computation of rate base reflected in your exhibits.**

8 A. Exhibit_(QPB-1) is a summary of Piedmont's end of Test Period rate base
9 amount applicable to its utility operations in North Carolina. Piedmont's
10 end of Test Period rate base for its utility operations in North Carolina is
11 approximately \$4.22 billion. This amount reflects the December 31, 2020
12 balances in the Company's accounting records for utility plant in service,
13 less accumulated depreciation and accumulated deferred income taxes,
14 plus an allowance for working capital.

15 The largest component of Piedmont's North Carolina rate base is
16 utility plant in service, which is approximately \$6.49 billion computed at
17 the original cost of such used and useful property. Exhibit_(QPB-2)
18 identifies utility plant in service by asset category at the end of the Test
19 Period, with approximately 90.18% of those assets being transmission and
20 distribution plant (predominantly consisting of pipe in the ground,
21 classified as either mains or service lines).

22 Exhibit_(QPB-3) identifies accumulated depreciation by asset
23 category at the end of the Test Period, which is a deduction to rate base of

1 approximately \$1.59 billion. Exhibit_(QPB-5) identifies accumulated
2 deferred income taxes (“ADIT”) at the end of the Test Period, which is a
3 deduction to rate base of approximately \$0.88 billion. The Test Period
4 allowance for working capital reflects the combined average per books
5 balance for the 13-months ended December 31, 2020 for the various other
6 book assets and liabilities supporting Piedmont’s utility operations in
7 North Carolina, as well as the results of the cash working capital lead/lag
8 study. The various components of the Test Period allowance for working
9 capital are delineated in Exhibit_(QPB-4) totaling approximately \$0.21
10 billion.

11 **Q. Has the Company presented the results of a depreciation or lead/lag**
12 **study in this filing?**

13 A. No. For purposes of our depreciation and cash working capital
14 calculations we have relied on the depreciation rates and lead/lag
15 calculations provided by studies of those components of rate base in our
16 2019 rate case, the results of which are incorporated into the settlement in
17 that case and which underlie our existing rates. Because those studies are
18 relatively recent, and because we are not aware of any factors that would
19 render them stale, we elected to rely upon them for purposes of this case
20 rather than burden our customers with the costs of conducting new studies.

21 **Q. How has Piedmont’s rate base changed since its last general rate case?**

22 A. Piedmont’s last general rate case reflected a Test Period rate base at
23 December 31, 2018, updated for known and measurable changes through

1 June 30, 2019. The amount of Piedmont's rate base coming out of that
2 proceeding was \$3.45 billion, compared to \$4.22 billion at the end of this
3 current Test Period. Utility plant in service, which is the largest
4 component of rate base, grew by more than \$0.97 billion over this period,
5 most significantly in the transmission asset category. See Table 1 as
6 follows for such growth by major plant asset category.

7 **Table 1**
8 **Summary of Plant Assets by Category**
9

Plant Asset Category	As of June 30, 2019	As of December 31, 2020	% Change
Storage Plant	\$159,098,556	\$141,885,536	-11%
Transmission Plant	\$2,688,126,445	\$3,275,495,473	22%
Distribution Plant	\$2,225,238,801	\$2,574,521,551	16%
General Plant & Intangibles	\$443,909,479	\$494,975,328	12%
Total Utility Plant	\$5,516,373,281	\$6,486,877,888	18%

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15 **Q. What factors have contributed to this increase in rate base since**
16 **2018?**

17 A. Piedmont's rate base growth is the result of several factors. First,
18 Piedmont continues to invest in its system in order to ensure compliance
19 with federal pipeline safety and integrity obligations created by the
20 Pipeline and Hazardous Materials Safety Administration ("PHMSA") and
21 much of that compliance work has involved capital projects. This work is
22 explained in greater detail in the testimony of Piedmont witness Brian
23 Weisker. Up until the filing of this rate case, a significant portion of this
24 capital investment has been handled under the Integrity Management

1 Rider (“IMR”) mechanism and Piedmont’s base rates have not included
2 any component designed to compensate Piedmont for that investment. As
3 part of this general rate case, we are “rolling-in” our cumulative integrity
4 management capital investment for inclusion in base rates. That integrity
5 management investment since the last rate case accounts for
6 approximately 38% of the growth in Piedmont’s plant in service shown in
7 Table 1 above.

8 Another significant driver for the increase in rate base is the capital
9 investments undertaken to support system infrastructure upgrades. These
10 upgrades have been needed to support the continued provision of reliable
11 firm natural gas service in light of increasing system demands largely
12 driven by customer growth and the associated increase in natural gas
13 throughput. Piedmont’s service territory covers a significant physical and
14 demographic portion of the state of North Carolina including major,
15 growing metropolitan areas. Accordingly, the demand for firm natural gas
16 service has continued to steadily increase in Piedmont’s service territory.

17 **Piedmont’s Per Books Test Period Cost of Service**

18 **Q. What are the actual financial results of Piedmont’s North Carolina**
19 **operations for the Test Period?**

20 **A.** A summary of the Test Period financial results for Piedmont’s North
21 Carolina operations is shown on page 1 column 1 of Exhibit_(QP-B-7).
22 Amounts in column 1 were taken from Piedmont’s books of account as of
23 December 31, 2020. Column 1 Line 14 shows per books net operating

1 income for return for the Test Period of \$288 million. Line 20 shows
2 actual end of Test Period rate base of \$4.22 billion. Column 1 Line 21
3 shows that the Test Period per books overall rate of return on rate base
4 before accounting and pro forma adjustments is 6.82%.

5 **Piedmont's Pro Forma Cost of Service**

6 **Q. Please describe the results of Piedmont's Test Period operations**
7 **under present rates, as adjusted for pro forma changes to the**
8 **Company's operating revenue, operating expense, capital structure**
9 **and rate base.**

10 **A.** Column 3 of Exhibit_(QPB-7) summarizes the results of Piedmont's Test
11 Period operations under present rates, as adjusted for accounting and pro
12 forma changes to the Company's operating revenue, operating expense,
13 capital structure and rate base. The pro forma adjustment workpapers are
14 included in G-1 Item 4, filed with the Company's Application. Each of
15 the accounting and pro forma adjustments shown in Column 2 of
16 Exhibit_(QPB-7) is based on known and measurable information.
17 Overall, the combined effect of the accounting and pro forma adjustments
18 to the Test Period yields a 5.54% overall rate of return on rate base, as
19 shown in Column 3 Line 21 of Exhibit_(QPB-7).

20 **Q. Please explain the accounting and pro forma adjustments to revenues**
21 **and operating expenses used to compute Piedmont's pro forma cost of**
22 **service.**

1 A. Each accounting and proforma adjustment is numbered and shown
2 alongside Column 2 on page 1 of Exhibit_(QPB-7). A description of each
3 adjustment is also provided on pages 3 and 4 of Exhibit_(QPB-7).
4 Adjustment 1 is performed for the purpose of normalizing annual revenues
5 for the sale and transportation of gas to present billing rates and current
6 customer throughput levels. Adjustment 2 is performed for the purpose of
7 bringing other operating revenues to the going-level annual amount. The
8 specific computation of these pro forma revenue adjustments is discussed
9 in the testimony of Piedmont witness Kally Couzens.

10 Adjustments 3 through 8 are performed for the purpose of bringing
11 annual operating expenses to the going-level amount. Adjustment 3
12 specifically aligns the total annual cost of gas to the present billing rates
13 and current customer throughput levels consistent with Adjustment 1
14 discussed above. Adjustment 4 increases operations and maintenance
15 (“O&M”) expense to the going-level amount of \$215 million. Page 3 of
16 Exhibit_(QPB-7) lists each O&M expense category and the adjustment
17 amount. Included in adjustment 4 is a refresh of Piedmont’s regulatory
18 amortization expense, which includes expenses associated with costs
19 granted regulatory asset treatment by this Commission. Regulatory
20 amortization expense is further discussed in detail later in my testimony.

21 Adjustment 5 is for the purpose of annualizing depreciation
22 expense to align with the pro forma amount of plant in service per
23 adjustment 9 herein. Adjustment 6 is to annualize general tax expense

1 (which is predominantly comprised of property tax expense, payroll tax
2 expense and NC franchise tax expense) consistent with the other related
3 pro forma adjustments in this proceeding. Adjustments 7 and 8 simply
4 provide an update of annual state and federal income tax expense (at
5 current rates of 2.5% and 21%, respectively) consistent with the other
6 related pro forma adjustments in this proceeding.

7 **Q. Are there any aspects of accounting and pro forma adjustments that**
8 **you would like to comment?**

9 A. Yes. I would like to call attention to the impact from the investment for
10 Robeson County LNG on going level O&M expenses. Specific
11 adjustments related to the additional LNG facility are included in O&M
12 adjustment 4. These adjustments relate to personnel related expenses, risk
13 insurance expense, and general O&M expense.

14 In addition, the Test Period is undoubtedly marked with effects
15 from the COVID-19 pandemic. However, an attempt to quantify the
16 effects of the pandemic on the Test Period financial results would provide
17 little more than a theoretical exercise that is inherently subjective in
18 nature. Furthermore, Piedmont did not file a COVID-19 deferral because
19 the Company did not believe that the pandemic impacted its financial
20 results in a material way. Because the impact on the financial results are
21 not known and measurable to a high degree of certainty, Test Period
22 adjustments due to COVID-19 are minimal. Only two adjustments were
23 made to O&M expenses as non-recurring. The first adjustment removes

1 an employee stipend provided to eligible employees (based on income) to
2 help with unplanned expenses due to disruptions from the pandemic. The
3 second adjustment removes costs incurred by Piedmont for third-party
4 fees for customer payments at walk-in payment centers. These fees were
5 suspended by the Company for a significant portion of the Test Period as
6 part of our pandemic relief actions. These two adjustments are made in
7 adjustment 4S.

8 **Q. Please explain in further detail the pro forma adjustments that**
9 **comprise Adjustment 4 for O&M expenses.**

10 A. This adjustment was prepared by segregating the Test Period O&M
11 expense into its major categories and analyzing the Test Period
12 transactions and the specific cost drivers for each of these major categories
13 to appropriately develop the going level expense amount for each major
14 category. The following table includes a description of the nature of each
15 adjustment:

1
2

Table 2
Adjustment 4 – O&M Adjustments Detail

<u>Adj. No.</u>	<u>Adjustment Description</u> <u>(From page 3 of Bowman Exhibit (QPB-7))</u>
4A	<p>To increase salaries & wages expense to the going-level basis.</p> <p>The adjustment proposes to annualize effective pay rates for headcount at December 31, 2020 and update the jurisdictional allocation factor. Also included is an adjustment for current Robeson County LNG employees who capitalized 100% of their payroll to the project during the Test Period.</p>
4B 4C	<p>To increase short-term incentive plan and long-term incentive plan expense to the going-level basis.</p> <p>The adjustment proposes to update STIP and LTIP compensation expense using 2021 budgets at target level and updating the jurisdictional allocation factor.</p>
4D	<p>To reduce executive management compensation for ratemaking purposes.</p> <p>The adjustment proposes to remove 50% of the allocated compensation (including benefits) of the five Duke Energy executives with the highest level of compensation. While the Company fully believes these costs are reasonable, prudent, and appropriate to recover from customers, for purposes of streamlining this proceeding, we have made this adjustment.</p>
4E	<p>To increase pension, OPEB and long-term disability expense to the going-level basis.</p> <p>The adjustment proposes to update pension and OPEB expense for known and measurable annual expense as well as normalizes long-term disability expense. The jurisdictional allocation factor is also updated.</p>
4F	<p>To increase other employee benefits expense to the going-level basis.</p> <p>The adjustment proposes to increase medical and dental expense to the anticipated going level. The updated jurisdictional allocation factor is reflected in this adjustment. Also included is an adjustment for current Robeson County LNG employees who capitalized 100% of their benefits to the project during the Test Period.</p>

4G	<p>To decrease the provision of uncollectibles expense to the going-level basis.</p> <p>The adjustment proposes to update uncollectible expense to reflect actual write-offs by normalizing the Test Period write-offs-to-revenues ratio and applying the updated ratio to pro forma Sales & Transportation revenue.</p>
4H	<p>To decrease rents expense to the going-level basis.</p> <p>The adjustment proposes to update rent expense by reflecting the current terms of the rental agreements and update the jurisdictional allocation factors.</p>
4I	<p>To increase insurance expense to the going-level basis.</p> <p>The adjustment proposes to reflect insurance rates that were invoiced for January – December 2021 and update jurisdictional allocation factors. Also included is an adjustment for incremental risk insurance expense for the Robeson County LNG facility.</p>
4J	<p>To increase customer payment expenses to the going-level basis.</p> <p>The adjustment proposes to include credit card payment fees into base rates. When a customer service representative assists a customer payment using a credit card, a fee is assessed by the credit card payment vendor. Historically, the customer incurs a \$3.50 fee for each transaction. In 2020, as part of the Company’s COVID-19 response, these fees were waived for a significant portion of the year. By including the fees in base rates, the Company is removing a potential additional burden for customers and improving our customer care.</p>
4K	<p>To decrease expenses for allocations to non-utility activities.</p> <p>The adjustment proposes to allocate a portion of select operating expenses using the three-factor Massachusetts Formula which consists of plant, revenues, and payroll costs, equally weighted.</p>
4L	<p>To decrease aviation expense for ratemaking purposes.</p> <p>The adjustment proposes to remove 50% of aviation expenses not related to utility patrol. While the Company fully believes these costs are reasonable, prudent, and appropriate to recover from customers, for purposes of streamlining this proceeding, we have made this adjustment.</p>
4M	<p>To increase the regulatory amortization expense for deferred NCNG</p>

	<p>OPEB costs.</p> <p>The adjustment proposes to synchronize the annual interest rate to the net of tax rate of return as proposed in this proceeding. No further adjustments are proposed.</p>
4N	<p>To increase the regulatory amortization expense for deferred environmental cleanup costs.</p> <p>The adjustment proposes to amortize deferred environmental costs related to various state and federal requirements for air emissions, wastewater discharges, and solid, toxic and hazardous waste management. Piedmont was initially granted regulatory asset treatment in Docket No. G-9, Sub 333. The proposed amortization period is 4 years. Further discussion is included in the Amortization of Deferred Expenses section.</p>
4O	<p>To increase the regulatory amortization expense for deferred distribution integrity management program costs.</p> <p>The adjustment proposes to amortize deferred O&M costs arising out of activities required to comply with federal DIMP requirement. Piedmont was initially granted regulatory asset treatment in the last rate case (Docket No. G-9, Sub 743). The proposed amortization period is 4 years. Further discussion is included in the Amortization of Deferred Expenses section.</p>
4P	<p>To decrease the regulatory amortization expense for deferred transmission integrity management program costs.</p> <p>The adjustment proposes to amortize deferred O&M costs arising out of activities required to comply with TIMP requirements. Piedmont was initially granted regulatory asset treatment in Docket No. G-9, Sub 495. The proposed amortization period is 4 years. Further discussion is included in the Amortization of Deferred Expenses section.</p>
4Q	<p>To increase the regulatory amortization expense for deferred rate case costs.</p> <p>This adjustment proposes to amortize the remaining unamortized balance of deferred rate case costs in addition to the incremental rate case costs incurred for this proceeding. The proposed amortization period is 4 years.</p>
4R	<p>To increase current regulatory fee expense to the going level.</p> <p>The adjustment proposes to synchronize the regulatory fee expense with pro forma revenues using the current fee rate of 0.13%</p>

4S	<p>To increase expenses for inflation and going-level jurisdictional allocations net of other ratemaking adjustments.</p> <p>The adjustment proposes to remove non-recurring, non-jurisdictional, and out-of-period expenses from Test Period expenses. In addition, costs related to customer energy efficiency programs were removed from O&M to be included in a rider as discussed in the testimony of Piedmont witness Pia Powers.</p> <p>The remaining O&M expenses not specifically adjusted are updated by applying an inflation factor calculated using data published by Office of Management and Budget (OMB). Also included is an adjustment for general O&M expenses that are associated with operating the Robeson LNG County facility.</p>
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	<p>Q. Please explain the accounting and pro forma adjustments to rate base.</p> <p>A. Adjustments 9, 10, 11, and 12 were made to update the per books end of Test Period rate base amounts to June 30, 2021. Adjustment 9 to plant in service anticipates that additional plant assets totaling \$684 million will be placed in service between December 31, 2020 and June 30, 2021. Adjustment 10 reflects the change in accumulated depreciation, an increase of \$83 million that is anticipated between December 31, 2020 and June 30, 2021 based on adjustment 9. Adjustment 12 reflects the change in the accumulated deferred income tax balance, an increase of \$20 million that we anticipate occurring between December 31, 2020 and June 30, 2021. Adjustments 9, 10 and 12 will be amended to replace the estimates with the actual per books amount of plant in service, accumulated depreciation and accumulated deferred income taxes, respectively, as of June 30, 2021. Adjustment 11 reflects anticipated changes for the asset and liability accounts where regulatory asset</p>

1 A. Yes, it does. The proposed rates shown in Appendix I will produce a
2 revenue increase of \$109,025,725 which is the proposed revenue
3 requirement adjustment shown in Exhibit_(QPB-7) on page 1. The
4 testimony and exhibits of Piedmont witness Kally Couzens support the
5 derivation of proposed rates for this proposed revenue requirement
6 adjustment amount.

7 **Q. Does this complete the cost of service portion of your testimony?**

8 A. Yes. Exhibits, working papers, and testimony filed with the petition were
9 prepared with information currently available to us at the time of the
10 filing. New evidence may become available between the filing date and
11 the time of the hearing. As such, as permitted under North Carolina
12 statutes and the rules of the Commission, any additional relevant, material,
13 and competent evidence will be provided at the hearing. We reserve the
14 right to file such updated information at or before the hearing of this
15 docket to the extent such information is relevant to a determination of the
16 matters at issue in this proceeding.

17 **Amortization of Deferred Expenses**

18 **Q. Is Piedmont proposing to amortize and recover any deferred expenses**
19 **in this proceeding?**

20 A. Yes. Piedmont proposes to amortize expenses that have been previously
21 deferred pursuant to Commission Order.

22 **Q. What are those main categories of deferred expense?**

1 A. Piedmont has previously deferred and now seeks recovery of certain
2 transmission and distribution pipeline integrity management costs and
3 certain environmental compliance costs. These costs have been deferred
4 in accordance with prior Commission orders.

5 **Q. Can you please describe these costs and how they came to be**
6 **deferred?**

7 A. Yes. On December 2, 2004, the Commission issued its *Order Approving*
8 *Deferred Accounting Treatment* in which, pursuant to Piedmont's previous
9 request, it ordered that "effective November 1, 2004, Piedmont is
10 authorized to segregate its incremental and extraordinary O&M expenses
11 for PNG-NC and NCNG incurred in compliance with the new Pipeline
12 Integrity Management Regulations issued by the USDOT pursuant to the
13 Pipeline Safety Improvement Act of 2002 into a special deferred account
14 until recovery of such costs can be sought in a general rate case, subject to
15 a determination that the costs have been prudently incurred and properly
16 accounted for and a determination as to the proper method of recovery."

17 **Q. How has the Commission treated these types of costs since its**
18 **December 1, 2004 order?**

19 A. Following that order, Piedmont deferred operating and maintenance
20 expenses of the type authorized by the Commission and then sought
21 amortization and recovery of those costs in its 2005, 2008, 2013, 2019 rate
22 case filings (per Docket Nos. G-9, Sub 499, G-9, Sub 550, G-9, Sub 631,
23 and G-9, Sub 743 respectively). In those cases, in conformance with

1 settlements of those dockets, the Commission authorized Piedmont to
2 amortize the costs it had deferred and approved a continuation of the
3 mechanism in each case.

4 **Q. Has Piedmont continued to defer pipeline integrity O&M costs since**
5 **the last rate case?**

6 A. Yes. In Piedmont's last rate case, deferred Transmission Integrity O&M
7 costs (PIM-T) was granted 4-year amortized recovery of a balance of
8 \$54,449,944, which reflected actual deferred expenses through June 30,
9 2019 net of regulatory amortizations through October 31, 2019. In this
10 case, Piedmont seeks to include amortization of the costs incurred and
11 deferred since that date. Piedmont is proposing a 4-year amortization of
12 unamortized costs previously approved and the incremental deferred costs
13 since the last rate case. The pro forma adjustment decreases this expense
14 by \$409,634, bringing the pro forma annual expense to \$13,202,852.

15 **Q. Are there other pipeline integrity O&M costs for which Piedmont is**
16 **seeking recovery?**

17 A. Yes, in addition to PIM-T, Piedmont was granted regulatory asset
18 treatment for O&M expenses arising out of activities required to comply
19 with federal DIMP requirements (PIM-D) in the Company's prior rate
20 case. Piedmont seeks to include amortization of cost incurred and
21 deferred since the last rate case. Piedmont is proposing a 4-year
22 amortization period for deferred costs of \$4,764,524. This pro forma
23 annual expense is \$1,191,131. These amounts are included in Piedmont's

1 cost of service in this case and is reflected in pro forma O&M expense in
2 Exhibit_(QPB-7).

3 **Q. Were the pipeline integrity costs for PIM-T and PIM-D prudently**
4 **incurred and have they been properly accounted for?**

5 A. Yes, these costs were incurred in compliance with federal laws and
6 regulations and in the ordinary conduct of Piedmont's business.

7 **Q. Is Piedmont proposing continued regulatory asset treatment for these**
8 **integrity costs going forward?**

9 A. Yes. The same reasons which supported deferral of these costs previously
10 continue to persist and support continued regulatory asset treatment for
11 these costs.

12 **Q. What is the basis for Piedmont's proposed amortization and recovery**
13 **of deferred environmental compliance costs?**

14 A. On December 16, 1992, Piedmont requested authorization to defer certain
15 environmental assessment and clean-up costs relating to various state and
16 federal environmental control requirements for air emissions, wastewater
17 discharges, and solid, toxic and hazardous waste management. This
18 request was made in Docket No. G-9, Sub 333. On December 23, 1992,
19 the Commission issued its *Order Granting Request* in this Docket in
20 which it ordered that "the request of special accounting for environmental
21 assessment and cleanup costs filed by Piedmont Natural Gas Company is
22 hereby granted, without prejudice to the right of any party to take issue
23 with the special accounting in a regulatory proceeding."

1 **Q. Has Piedmont utilized this deferral authority for environmental**
2 **compliance expenses incurred in the years since it was granted by**
3 **the Commission?**

4 A. Yes, it has. Piedmont has routinely deferred its environmental assessment
5 and clean-up costs pursuant to the authority granted by the Commission in
6 Docket No. G-9, Sub 333 and has filed for and been granted amortization
7 of such costs in rate case proceedings since 1992.

8 **Q. Has Piedmont continued to defer environmental compliance expenses**
9 **since the last rate case?**

10 A. Yes. In the last rate case, Piedmont was granted a 4-year amortized
11 recovery of a balance of (\$55,817), which was the unamortized deferred
12 balance as through June 30, 2019, net of regulatory amortizations through
13 October 31, 2019. In this proceeding, Piedmont is proposing a 4-year
14 amortization of an unamortized balance of \$833,314 for an annual
15 amortization expense of \$208,329.

16 **Q. Were these costs prudently incurred and have they been properly**
17 **accounted for?**

18 A. Yes, they were incurred in compliance with federal laws and regulations
19 and in the ordinary conduct of Piedmont's business.

20 **Q. Is Piedmont proposing any change to deferred regulatory fee expenses**
21 **or EasternNC deferred O&M expenses?**

22 A. Piedmont is not proposing any change to its deferred regulatory fee
23 amortization schedule approved in the last rate case. In addition,

1 Piedmont is not proposing any change, other than updating the interest rate
2 to reflect the net of tax overall rate of return as proposed, to the
3 amortization and recovery of EasternNC deferred O&M expenses
4 approved in the prior rate case.

5 **G-1 Compliance**

6 **Q. Has Piedmont complied with Commission Rule R1-17(b)(12)(c) in this**
7 **proceeding by filing the information required by NCUC Form G-1 in**
8 **connection with the filing of this general rate case?**

9 A. Yes. Piedmont's G-1 Minimum Filing Requirements were prepared and
10 are being filed with the Commission concurrent with its Petition and
11 supporting testimony in this proceeding.

12 **Q. Does this conclude your pre-filed direct testimony?**

13 A. Yes.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Supplemental Testimony and Exhibits
of
Quynh P. Bowman**

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

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

2 A. My name is Quynh Pham Bowman. My business address is 4720 Piedmont
3 Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am the Director – Gas Rates & Regulatory Strategy for Piedmont Natural
6 Gas Company, Inc. (“Piedmont” or “the Company”).

7 **Q. Are you the same Quynh Bowman that previously filed Direct Testimony**
8 **in this docket?**

9 A. Yes.

10 **Q. What is the purpose of your Supplemental Testimony in this proceeding?**

11 A. N.C. Gen. Stat. § 62-133(c) and Commission Rule R1-17(c) permit Piedmont
12 to update its rate case filing through the date of the hearing of this matter. In
13 Piedmont’s Application in this proceeding filed on March 22, 2021, we
14 specifically reserved our right to make these updates. The Commission’s
15 May 17, 2021 Order in this docket, pursuant to ordering paragraph 10,
16 requires such updates to be filed no later than July 28, 2021.

17 My Supplemental Testimony is filed in support of Piedmont’s
18 update filing (“Update Filing”). Specifically, the purpose of my
19 Supplemental Testimony is two-fold: 1) to explain and support Piedmont’s
20 updated pro forma adjustments for operating expense and rate base; and 2) to
21 explain and support the results of Piedmont’s Test Period operations under
22 present rates, as adjusted for updated pro forma changes to the Company’s
23 operating revenue, operating expense, and rate base.

1 In Piedmont’s Application, it was shown that Piedmont’s revenue
2 request was based on a number of pro forma adjustments. The pro forma
3 adjustments were developed on the basis of estimated going-levels of
4 operating expense as of June 30, 2021 and estimated utility rate base as of
5 June 30, 2021. We now have available actual June 30, 2021 balances rather
6 than estimates to support those pro forma expense adjustments and rate base.
7 Furthermore, our commission-approved customer billing rates have
8 materially changed since the time of our Application filing, which
9 necessitates an update to the pro forma revenue calculation reflected in our
10 Application and the Direct Testimony of witness Kally Couzens.¹ For these
11 reasons, updates to the schedules required by Commission Rule R1-17(b)
12 (“Updated Schedules”) were warranted in order to reflect our updated cost of
13 service calculation and the components thereof relative to our Application.

14 **Q. Please explain how, if at all, the Update Filing impacts the Test Period**
15 **amounts shown by Piedmont in its Application.**

16 A. Nothing about this Update Filing changes or otherwise impacts the per books
17 Test Period amounts shown in Piedmont’s Application and in my Direct
18 Testimony. The Test Period for this general rate case proceeding continues
19 to be the 12-months ending December 31, 2020.

¹ As explained in the Supplemental Testimony of witness Kally Couzens, rate changes were approved by the Commission effective June 1, 2021 per order in Docket No. G-9, Sub 788. Additional rate changes were approved by the Commission effective July 1, 2021 per order in Docket No. G-9, Sub 790.

1 **Q. Please explain how this Update Filing impacts the accounting and pro**
2 **forma adjustments shown by Piedmont in its Application.**

3 A. The following items have been updated from the Company's Application:

- 4 1) the pro forma utility rate base adjustments in the Company's Application
5 that were developed based on then-estimated June 30, 2021 amounts;
6 2) certain pro forma expense adjustments in the Company's Application that
7 were developed based on then-estimated June 30, 2021 amounts; and
8 3) the pro forma adjustment to utility gas sales and transportation revenue
9 in the Company's Application that was developed based on the then-
10 present Commission approved customer billing rates which have since
11 been revised by the Commission and also based on the rate of
12 customer growth expected at the time the Application was filed.

13 **Q. Does this Update Filing incorporate any changes to the methodology used**
14 **by the Company in its computation of the pro forma adjustments**
15 **compared to those used for the Company's Application?**

16 A. The approach used to compute each pro forma adjustment supporting this
17 Update Filing is the same as used to compute each pro forma adjustment in
18 the Company's Application, with the exception of the growth adjustment for
19 customer bills and dekatherms delivered as discussed in the supplemental
20 testimony of Piedmont witness Kally Couzens

21 **Q. Do you have any exhibits supporting your Supplemental Testimony?**

1 A. Yes. Since many of the schedules provided by Piedmont in its Application
2 for fulfillment of Commission Rule R1-17(b) were exhibits to my Direct
3 Testimony, I have updated all eight of the exhibits to my Direct Testimony in
4 support of the Update Filing, as follows:

- 5 • Exhibit_(QPB-1 UPDATED) Summary of Rate Base
- 6 • Exhibit_(QPB-2 UPDATED) Original Cost of Used and Useful Property
- 7 • Exhibit_(QPB-3 UPDATED) Accumulated Depreciation of Property
8 Used and Useful
- 9 • Exhibit_(QPB-4 UPDATED) Working Capital
- 10 • Exhibit_(QPB-5 UPDATED) Accumulated Deferred Income Taxes
- 11 • Exhibit_(QPB-6 UPDATED) Depreciation Policy and Rates
- 12 • Exhibit_(QPB-7 UPDATED) Net Operating Income and Rates of Return
- 13 • Exhibit_(QPB-8 UPDATED) Piedmont Balance Sheet and Income
14 Statement

15 **Q. Were your updated exhibits prepared by you or under your direct**
16 **supervision?**

17 A. Yes.

18 **Q. Please explain the updates to pro forma utility rate base reflected in your**
19 **updated exhibits.**

20 A. Exhibit_(QPB-1 UPDATED) summarizes the main components of rate base.
21 The first column in this exhibit shows that Piedmont's end of Test Period rate
22 base was approximately \$4.22 billion. In our Application, we had anticipated

1 that rate base would grow to \$4.82 billion by June 30, 2021; this estimated
2 June 30, 2021 rate base amount was used in the revenue request computation
3 shown in my original Exhibit_(QPB-7). Now in this Update Filing we show
4 Piedmont's pro forma rate base as \$4.74 billion, which reflects a difference
5 of less than 2% from the pro forma rate base amount shown in the original
6 exhibits to my Direct Testimony.

7 **Q. Was each component of pro forma utility rate base updated using actual**
8 **amounts as of June 30, 2021?**

9 A. Yes, with an exception related to two large capital investment projects – the
10 construction of a liquefied natural gas storage facility in Robeson County
11 (“Robeson LNG”) and a pipeline main expansion project in Pender and
12 Onslow Counties (“Pender-Onslow”). These two projects were not in service
13 as of June 30, 2021. These two projects are, however, expected to be in
14 service before the hearing concludes. Accordingly, this Update Filing reflects
15 actual rate base as of June 30, 2021, as amended for the effect of the current
16 projection of the in-service amount of the Robeson LNG and Pender-Onslow
17 projects. As such, the updated pro forma rate base shown in Exhibit_(QPB-
18 1 UPDATED) reflects actual rate base as of June 30, 2021, as amended for
19 the effect of the current projection of the in service amount of the Robeson
20 LNG and Pender-Onslow projects.

21 Exhibit_(QPB-2 UPDATED) identifies utility plant in service by
22 major asset category at the end of the Test Period, and the pro forma amounts

1 per the Company's Application and per the Update Filing. Exhibit_(QPB-3
2 UPDATED) identifies accumulated depreciation by major asset category at
3 the end of the Test Period, and the pro forma amounts per the Company's
4 Application and per the Update Filing. Exhibit_(QPB-4 UPDATED)
5 identifies the components of allowance for working capital on a 13-month
6 average for the Test Period, and the pro forma amounts per the Company's
7 Application and per the Update Filing. Exhibit_(QPB-5 UPDATED)
8 identifies accumulated deferred income taxes at the end of the Test Period,
9 and the pro forma amounts per the Company's Application and per the Update
10 Filing.

11 **Q. Please explain the updates to pro forma depreciation expense reflected in**
12 **your updated exhibits.**

13 A. In the Company's Application, I presented a pro forma adjustment to annual
14 depreciation expense that was aligned with the pro forma amount of utility
15 plant in service as estimated at June 30, 2021. In this Update Filing, the
16 computation of pro forma annualized depreciation expense is aligned with the
17 updated pro forma utility plant in service. Exhibit_(QPB-6 UPDATED)
18 identifies the composite deprecation rates by major asset category.

19 **Q. Please explain the updates to pro forma revenues reflected in your**
20 **updated exhibits.**

21 A. Exhibit_(QPB-7 UPDATED) incorporates an update to the pro forma gas
22 sales and transportation revenue amount. The computation of updated pro

1 forma gas sales and transportation revenue is explained in the Supplemental
2 Testimony of Piedmont witness Kally Couzens.

3 **Q. Please explain the update to pro forma cost of gas expense reflected in**
4 **your updated exhibits.**

5 A. Exhibit_(QPB-7 UPDATED) incorporates an update to the pro forma cost of
6 gas expense in alignment with the cost of gas component of the updated pro
7 forma gas sales and transportation revenue amount.

8 **Q. Please explain the updates to pro forma operations and maintenance**
9 **(“O&M”) expense reflected in your updated exhibits.**

10 A. In the Company’s Application and as shown in Exhibit_(QPB-7) to my Direct
11 Testimony, there were nineteen discrete pro forma adjustments to the Test
12 Period level of O&M expense, identified as pro forma adjustments 4A
13 through 4S.² Changes to eleven of those nineteen pro forma O&M expense
14 adjustments were warranted in this Update Filing. Those changes were
15 necessary in order to align with updates made to pro forma rate base, pro
16 forma revenues and/or other known changes (corrections). The updates to the
17 pro forma O&M adjustments are described in Table 1.

² See Table 2 Adjustment 4 – O&M Adjustment Detail as shown on pages 12 - 15 in Direct Testimony of Quynh Pham Bowman.

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Table 1
Adjustment 4 – O&M Updated Adjustments Detail

Adj No.	Adjustment Description From page 3-4 of Exhibit_(QPB-7 UPDATED)
4A	<p>To increase salaries & wages expense to the going-level basis.</p> <p>The adjustment proposes to annualize effective pay rates for headcount at December 31, 2020 and update the jurisdictional allocation factor. Also included is an adjustment for Robeson LNG employees who capitalized 100% of their payroll to the project during the Test Period.</p> <p><u>Per Update Filing:</u> This adjustment update reflects actual employee salary and wage rates as of June 30, 2021 in lieu of the estimated employee salary and wage rates used in the Application.</p>
4B 4C	<p>To increase short-term incentive plan and long-term incentive plan expense to the going-level basis.</p> <p>The adjustment proposes to update STIP and LTIP compensation expense using 2021 budgets at target level and update the jurisdictional allocation factor.</p> <p><u>Per Update Filing:</u> This adjustment update reflects a correction to the computation of incremental payroll expenses related to the new Robeson LNG facility. No other changes were made.</p>
4D	<p>To reduce executive management compensation for ratemaking purposes.</p> <p>The adjustment proposes to remove 50% of the Piedmont-allocated compensation (including benefits) of the Company's top five highest compensated executives -- Duke Energy Executives supporting Piedmont's operations. While the Company fully believes these costs are reasonable, prudent, and appropriate to recover from customers, for purposes of streamlining this proceeding, we have made this adjustment.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted.</p>
4E	<p>To increase pension, OPEB and long-term disability expense to the going-level basis.</p>

	<p>The adjustment proposes to update pension and OPEB expense for known and measurable annual expense as well as normalizes long-term disability expense. The jurisdictional allocation factor is also updated.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted.</p>
4F	<p>To increase other employee benefits expense to the going-level basis.</p> <p>The adjustment proposes to increase medical and dental expense to the anticipated going level. The updated jurisdictional allocation factor is reflected in this adjustment. Also included is an adjustment for current Robeson County LNG employees who capitalized 100% of their benefits to the project during the Test Period.</p> <p><u>Per Update Filing:</u> This adjustment update reflects a correction to the computation of incremental employee benefits expenses related to the new Robeson LNG facility. No other changes were made.</p>
4G	<p>To decrease the provision of uncollectibles expense to the going-level basis.</p> <p>The adjustment proposes to update uncollectible expense to reflect actual write-offs by normalizing the Test Period write-offs-to-revenues ratio and applying the updated ratio to pro forma Sales & Transportation revenue.</p> <p><u>Per Update Filing:</u> This adjustment update aligns uncollectible expense with the updated pro forma gas sales and transportation revenues amount.</p>
4H	<p>To decrease rents expense to the going-level basis.</p> <p>The adjustment proposes to update rent expense by reflecting the current terms of the rental agreements and update the jurisdictional allocation factors.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted.</p>
4I	<p>To increase insurance expense to the going-level basis.</p> <p>The adjustment proposes to reflect insurance rates that were invoiced for January – December 2021 and update jurisdictional allocation</p>

	<p>factors. Also included is an adjustment for incremental risk insurance expense for the new LNG facility and LNG upgrades since the end of the Test Period.</p> <p><u>Per Update Filing:</u> : This adjustment update was made to align with the updated plant amounts for LNG since the end of the Test Period. to</p>
4J	<p>To increase customer payment expenses to the going-level basis.</p> <p>The adjustment proposes to include residential customer payment fees through the pay by phone channel into base rates. Currently, when a customer makes a payment via contacting the Company by phone, a \$3.50 transaction fee is assessed to the customer by a third-party vendor (Speedpay). In 2020, as part of the Company's COVID-19 response, these fees were waived for a significant portion of the year. By including the fees in base rates, the Company is removing a potential additional burden for residential customers and improving our customer care.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted. Note that the workpaper for the original adjustment was modified to include additional language/labels to provide clarity of the adjustment intent.</p>
4K	<p>To decrease expenses for allocations to non-utility activities.</p> <p>The adjustment proposes to allocate a portion of select operating expenses using the three-factor Massachusetts Formula which consists of plant, revenues, and payroll costs, equally weighted.</p> <p><u>Per Update Filing:</u> This adjustment update reflects changes in pro forma expense balances and a correction to the computation of incremental expenses related to the new Robeson LNG facility.</p>
4L	<p>To decrease aviation expense for ratemaking purposes.</p> <p>The adjustment proposes to remove 50% of aviation expenses not related to utility patrol. While the Company fully believes these costs are reasonable, prudent, and appropriate to recover from customers, for purposes of streamlining this proceeding, we have made this adjustment.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted.</p>

4M	<p>To increase the regulatory amortization expense for deferred NCNG OPEB costs.</p> <p>The adjustment proposes to synchronize the annual interest rate to the net of tax rate of return as proposed in this proceeding. No further adjustments are proposed.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted.</p>
4N	<p>To increase the regulatory amortization expense for deferred environmental cleanup costs.</p> <p>The adjustment proposes to amortize deferred environmental costs, as incurred through the end of the Test Period, related to various state and federal requirements for air emissions, wastewater discharges, and solid, toxic and hazardous waste management. Piedmont was initially granted regulatory asset treatment in Docket No. G-9, Sub 333. The proposed amortization period is 4 years.</p> <p><u>Per Update Filing:</u> This adjustment update reflects amortization of expense deferrals through June 30, 2021 and includes a correction of an error identified in certain deferred amounts shown in the Application.</p>
4O	<p>To increase the regulatory amortization expense for deferred distribution integrity management program costs.</p> <p>The adjustment proposes to amortize deferred O&M costs through the end of the Test Period arising out of activities required to comply with federal DIMP requirement. Piedmont was initially granted regulatory asset treatment in the last rate case (Docket No. G-9, Sub 743). The proposed amortization period is 4 years.</p> <p><u>Per Update Filing:</u> This adjustment update reflects amortization of expense deferrals through June 30, 2021.</p>
4P	<p>To decrease the regulatory amortization expense for deferred transmission integrity management program costs.</p> <p>The adjustment proposes to amortize deferred O&M costs through the end of the Test Period arising out of activities required to comply with TIMP requirements. Piedmont was initially granted regulatory asset treatment in Docket No. G-9, Sub 495. The proposed amortization period is 4 years.</p>

	<p><u>Per Update Filing:</u> This adjustment update reflects amortization of expense deferrals through June 30, 2021.</p>
4Q	<p>To increase the regulatory amortization expense for deferred rate case costs.</p> <p>This adjustment proposes to amortize the remaining unamortized balance of deferred rate case costs in addition to the incremental rate case costs incurred for this proceeding. The proposed amortization period is 4 years.</p> <p><u>Per Update Filing:</u> No change from the Application was warranted.</p>
4R	<p>To increase current regulatory fee expense to the going level.</p> <p>The adjustment proposes to synchronize the regulatory fee expense with pro forma revenues using the current fee rate of 0.13%</p> <p><u>Per Update Filing:</u> This adjustment update aligns with the updated uncollectible expense and the updated pro forma gas sales and transportation revenues amount.</p>
4S	<p>To increase expenses for inflation and going-level jurisdictional allocations net of other ratemaking adjustments.</p> <p>The adjustment proposes to remove non-recurring, non-jurisdictional, and out-of-period expenses from Test Period expenses. In addition, costs related to customer energy efficiency programs were removed from O&M expense to instead be included in a rider as discussed in the testimony of Piedmont witness Pia Powers.</p> <p>The remaining O&M expenses not specifically adjusted are updated by applying an inflation factor calculated using data published by Office of Management and Budget (OMB). Also included is an adjustment for general O&M expenses that are associated with operating the new Robeson LNG facility.</p> <p><u>Per Update Filing:</u> This adjustment update reflects the correction of the computation of incremental expenses related to the new Robeson LNG facility. No other changes were made.</p>

1 **Q. Please explain the updates to pro forma general tax expense reflected in**
2 **your updated exhibits.**

3 A. Two updates to pro forma general tax expense were warranted, which were
4 to the pro forma payroll tax and pro forma property tax component. The
5 update to pro forma payroll tax expense was necessary to align with the
6 updated pro forma salaries and wages expense adjustment in 4A. The update
7 to pro forma property tax was necessary to align with the updated amount of
8 pro forma utility plant in service. In addition, it was discovered that the
9 support used to calculate property tax rate in the original application did not
10 reflect a proper allocation to North Carolina. This was corrected in the
11 updated pro forma property tax adjustment.

12 **Q. Are there any updates to the embedded cost of debt reflected in your**
13 **updated exhibits?**

14 A. Yes, there are two updates. First, the embedded cost of long-term debt was
15 updated to incorporate the actual cost of the \$350 million long term debt
16 issuance that occurred on March 11, 2021 at 2.50% in lieu of the estimated
17 cost at 2.70% that was included in the computations supporting the
18 Company's Application. Pursuant to this update, the embedded cost of long-
19 term changed from 4.09% to 4.08%. Second, the embedded cost of short-
20 term debt was updated to incorporate the actual cost rates as of June 30, 2021;
21 this update yielded a reduction in the embedded cost of short-term debt from
22 0.47% to 0.35%.

1 **Q. Please explain the updates to income tax expense reflected in your**
2 **updated exhibits.**

3 A. The updates to federal and state income tax expense were made in alignment
4 with the overall impact of the updates previously described in my
5 Supplemental Testimony.

6 **Q. In total, how do these updates impact Piedmont's revenue requirement**
7 **and proposed rates in this proceeding?**

8 A. The proposed rates shown in the Updated Appendix I to this Update Filing
9 are designed to achieve annual gas sales and transportation revenues of
10 \$1,154,911,31. This is the revenue level needed to support the Company's
11 updated cost of service as shown in Exhibit_(QPB-7 UPDATED). The
12 change in Piedmont's proposed revenue request decreased by approximately
13 11.2%, from \$109.0 million to \$96.9 million in the Application and Update
14 Filing, respectively.

15 **Q. What is Piedmont asking the Commission to do with this information?**

16 A. The Company requests that the Commission accept and consider the Updated
17 Schedules in their consideration of determining a just and reasonable cost of
18 service for Piedmont in this proceeding and in approving new rates for our
19 customers.

20 **Q. Do you have any further testimony regarding Piedmont's Update Filing?**

21 A. No, this concludes my Supplemental Testimony.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 781

General Rate Case

**Rebuttal Testimony
of
Quynh P. Bowman**

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

1 **Q. Ms. Bowman, please state your name and business address.**

2 A. My name is Quynh Pham Bowman. My business address is 4720
3 Piedmont Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am the Director – Gas Rates & Regulatory Strategy for Piedmont Natural
6 Gas Company, Inc. (“Piedmont” or the “Company”). In this capacity, I
7 am responsible for a variety matters including supporting the development
8 and execution of rate requests and financial report filings by Piedmont.

9 **Q. Have you previously testified in this proceeding?**

10 A. Yes. I previously submitted prefiled direct testimony in this proceeding
11 on March 22, 2021 and supplemental testimony on July 28, 2021.

12 **Q. What is the purpose of your rebuttal testimony?**

13 A. The purpose of my rebuttal testimony is to respond to a number of
14 accounting adjustments proposed by Public Staff – North Carolina
15 Utilities Commission (“Public Staff”). Specifically, I will address the
16 adjustments in the testimony of Public Staff witness Feasel, Public Staff
17 witness Coleman, and in the testimony and exhibits of Public Staff witness
18 Perry.

19 **Q. In her direct testimony, Public Staff witness Feasel proposes that the**
20 **Company absorb one full year of carrying costs associated with**
21 **previously deferred assets under Piedmont’s Distribution and**
22 **Transmission Integrity Management Programs (“PIM-D” and “PIM-**

1 **T”) and environmental compliance. What is your reaction to this**
2 **proposal?**

3 A. I disagree with this proposed reduction of working capital. These deferred
4 expenses are currently afforded regulatory asset treatment under the
5 Commission’s order in Piedmont’s last general rate case in Docket No. G-
6 9, Sub 743. Under its Commission-approved deferral of expenses
7 associated with its transmission integrity program, Piedmont seeks
8 recovery in general rate cases of deferred expenses net of ongoing
9 amortizations. These amortizations reduce Piedmont’s regulatory asset on
10 a monthly basis and serve to reduce the regulatory asset to an appropriate
11 amount of working capital upon which Piedmont should be allowed to
12 earn a return without the further reduction proposed by witness Feasel.

13 **Q. Has Ms. Feasel offered a justification for this proposed absorption of**
14 **12 months of carrying costs on these established regulatory assets?**

15 A. Not that I can see. Her absorption recommendation is simply embedded in
16 her proposed amortization of such costs in this case without explanation or
17 rationale. Ms. Feasel’s recommendation would result in a reduction of
18 Piedmont’s rate base of \$18,093,484.

19 **Q. What was the Company’s approach to this matter?**

20 A. In the Company’s filed case, Piedmont made an end-of-period adjustment
21 to align the proposed annual amortization and the end-of-period balance of
22 the regulatory assets. We accomplished this by removing the difference
23 between the proposed annual amortization expense and the annual

1 amortization expense for the Test Period for each of these regulatory
2 assets, which was the appropriate way to handle this issue.

3 **Q. In her Direct Testimony, Public Staff witness Coleman proposes to**
4 **disallow fifty percent (50%) of the total compensation of the top five**
5 **Duke Energy Executives which consists of total annual salary, Short-**
6 **Term Incentive Plan, Long-Term Incentive Plan and Benefits. What**
7 **is your reaction to this proposed adjustment?**

8 A. First, I would like to acknowledge that the Company included an
9 executive management compensation adjustment to remove 50% of the
10 total compensation allocated to Piedmont for the top five Duke Energy
11 Executives. As stated in my filed testimony on March 22, although we
12 believe these costs are reasonable, prudent, and appropriate to recover
13 from customers, we made this adjustment in good faith for purposes of
14 streamlining this proceeding.

15 Ms. Coleman has replaced one of the top five Duke Energy executives of
16 the holding company with the Senior Vice President - Natural Gas
17 Business. In my opinion, the rationale for this disallowance – that the
18 specified executives spend half of their time working for shareholders – is
19 much less convincing when applied to an employee who spends the
20 majority of his time managing and directing the operations of Piedmont
21 and, as Ms. Coleman states, is “more closely aligned with Piedmont’s
22 efforts to minimize costs and maximize the reliability of Piedmont’s
23 service to customers.”

1 My belief is that Ms. Coleman chose to update the Company's adjustment
2 simply to further reduce our filed position by \$250,246. This seems like a
3 methodology driven to reduce the revenue requirement rather than one
4 based on the professed concepts by Public Staff.

5 **Q. In her direct testimony, Ms. Perry proposes to disallow Piedmont the**
6 **ability to recover the unamortized portion of rate case expense for**
7 **Piedmont's 2019 rate case and to reduce the projected rate case**
8 **expense from this case by \$237,030. What is your response to these**
9 **proposals from Public Staff witness Perry?**

10 **A.** I do not agree with Ms. Perry's proposals. The rate case expense from the
11 2019 rate case was agreed to as part of the settlement of that case, as was
12 the four-year amortization of that expense. The settlement in that case
13 was approved by a Commission order that approved the four-year
14 amortization. The expense that will be outstanding as of October 31, 2021
15 is \$654,931. Nothing in the prior settlement or the Commission's Order
16 approving that settlement dictated that the rate case expense would
17 become unrecoverable if Piedmont filed a rate case prior to the end of the
18 four-year amortization period. Piedmont included the unamortized
19 balance for its recovery in its revenue requirement in this case and
20 continues to believe that it is entitled to recover these amounts.

21 **Q. What is your response to Ms. Perry's reduction in current rate case**
22 **expense in this case?**

1 A. I disagree with that adjustment. Our proposed rate case expense in this
2 docket is approximately \$73,000 (6%) more than actual rate case expense
3 incurred in our 2019 rate case. Further, Ms. Perry relied on a “run rate”
4 calculation in making her reduction which ignored the fact that the period
5 utilized for calculating that run rate included only preparation of the initial
6 filing and discovery. This calculation does not include review and
7 analysis of intervenor testimony, preparation of rebuttal testimony,
8 settlement negotiations, preparation for hearing, the conduct of the hearing
9 itself, and briefing/drafting of proposed orders.

10 In short, I find Ms. Perry’s adjustment to be arbitrary and not
11 representative of the actual costs of prosecuting this case. Adoption of
12 this adjustment by the Commission will prevent Piedmont from being able
13 to collect its actual rate case expense in this proceeding.

14 **Q. In her direct testimony, Ms. Perry utilizes a five-year average of**
15 **uncollectibles expense to reduce the Company’s pro forma level of**
16 **uncollectibles in its revenue requirement. Do you agree with Ms.**
17 **Perry’s adjustment?**

18 A. No. The rate of uncollectibles experienced by Piedmont over the five-year
19 period used by Public Staff (and in particular the early years of that five-
20 year period) are not representative of the level of uncollectibles Piedmont
21 has experienced during the more recent past. And while we agree with
22 Ms. Perry that 2020 is not a reasonable year to solely rely on for
23 uncollectibles experience, her selection of a five-year average includes

1 outdated data and understates the Company's recent experience with
2 uncollectibles expense. We believe the most accurate measure of future
3 uncollectible expense is an average of the two years prior to 2020 which
4 should be excluded due to the impacts of the pandemic.

5 **Q. What is your response to the Public Staff's adjustment to remove an**
6 **additional \$821,959 for Pension, OPEB and long-term disability**
7 **expenses?**

8 A. I do not agree with the approach used by Public Staff. Ms. Perry proposes
9 to use a 12-month period ending May 31, 2021 as a suitable ongoing level
10 of expense for pension, OPEB, and long-term disability. This
11 methodology uses historical balances and does not reflect an ongoing
12 level. The Company's pension and OPEB adjustments are supported by
13 third-party valuation reports. Of the \$821,959 reduction proposed by
14 Public Staff, \$552,226 is related to the difference in long-term disability
15 expense. The Company's proposed adjustment is based on a three-year
16 average of participant counts and applies a 6.25% medical inflation rate,
17 again supported by third party valuation reports, to actual costs per
18 participant during 2020. This methodology is consistent with the three-
19 year average employed by the Public Staff in determining the medical and
20 dental expenses in their proposed adjustment.

21 **Q. In her direct testimony, Ms. Perry removes \$28,024,252 of Customer**
22 **Growth Expenses from the balance of expenses adjusted for inflation.**
23 **What is your reaction to this adjustment?**

1 A. I disagree with it because the result of Ms. Perry's adjustment yields an
2 insufficient pro forma level of expense due to its failure to address the fact
3 that some expenses increase because of inflation and an increase in
4 customer count.

5 **Q. Do you have other disagreements with Ms. Perry's adjustment for**
6 **inflation?**

7 A. Yes, I do. To align with Public Staff's adjustments for various items, Ms.
8 Perry removes an additional \$4,724,920 from the Test Period basis used to
9 calculate the inflation adjustment. However, the amounts do not reflect
10 the Test Period amounts that the Public Staff excluded from the cost of
11 service. The amounts included in the inflation adjustment should exactly
12 reflect the Test Period amounts that have been excluded by Public Staff.
13 For example, Public Staff witness Coleman proposes to remove \$360,740
14 from the revenue requirement yet in Ms. Perry's adjustment, \$721,478 is
15 removed from the basis for inflation. Even if we agreed to Ms. Coleman's
16 adjustment to remove \$360,740, the remaining amount is still included in
17 the cost of service and should be included in the inflation adjustment.
18 Finally, no support was provided for the calculation of an inflation factor
19 of 1.93% used in the Public Staff adjustment, whereas our inflation factor
20 is based on growth during 2021 as applied to 2020 Test Period as
21 supported in electronic workpaper filed with the application on March 22,
22 2021.

1 **Q. Ms. Perry proposes to reduce Piedmont's COVID 19 expense by**
2 **\$953,096. What is your response to her proposed adjustment?**

3 A. First, the Public Staff has acknowledged to Piedmont that \$74,446 of their
4 proposed disallowance was not included in Piedmont's proposed revenue
5 requirement and additional removal is unwarranted. Nevertheless, there
6 are several critical flaws in the remainder of the Public Staff's proposed
7 adjustment. The Public Staff removed \$878,650 of expenses out of a
8 belief that these costs were not ongoing expenses. That belief is
9 misguided. These costs relate to employee expenses for personal
10 protective equipment such as masks, gloves, coveralls; increased cleaning
11 of shared spaces and equipment; and proactive testing for critical
12 employees that are required to interact with customers and other
13 employees. The Company believes these costs can be reasonably
14 expected to be incurred in the future especially in light of the ongoing
15 pandemic and increasing levels of infections throughout North Carolina. I
16 am not aware of any information that reliably predicts an end to this
17 pandemic or a return to pre-pandemic handling of personal protection and
18 sanitation. It is Piedmont's responsibility to protect our customers, the
19 general public, and our employees from possible infection at any point in
20 the reasonably foreseeable future.

21 Further, Piedmont has not proposed to include pre-pandemic levels of
22 avoided employee costs in this case for the exactly the same reason that it
23 has proposed to recover these employee costs. Any attempt to normalize

1 incremental expenses due to COVID should reasonably be balanced with
2 normalizing avoided expenses due to COVID. Just as the pandemic
3 dictates certain employee costs like business travel must be curtailed, it
4 also dictates that responsible companies must protect their employees
5 through the types of expenditures that the Public Staff proposes to
6 disallow. By way of illustration, employee expenses decreased from
7 approximately \$4.1M in 2019 to \$1.8M in 2020. The Public Staff does
8 not appropriately balance these two factors, however, and seeks to
9 disallow recovery of certain prudently incurred costs while simultaneously
10 accepting the benefits of reduced levels of employee expenses experienced
11 during the test period. Piedmont's position is a reasonable middle ground
12 which still reduces employee expenses below pre-pandemic "normal"
13 levels.

14 **Q. In her direct testimony, Ms. Perry proposes to disallow recovery of**
15 **per transaction charges under arrangements for customers to pay**
16 **their bills through Speedpay to the extent they exceed similar charges**
17 **incurred by Duke Energy Carolinas, LLC and Duke Energy Progress,**
18 **LLC. What is your reaction to this proposed adjustment?**

19 **A.** I do not agree. The Public Staff seeks to limit Piedmont's cost recovery
20 to a lower level than exists in Piedmont's existing contract with Speedpay.
21 Piedmont is bound under its existing contract for an additional two years,
22 and the Public Staff has made no showing that Piedmont was imprudent in
23 entering into the existing contract. As such, we believe that we are

1 entitled to recover the per transaction charges under the Speedpay contract
2 but certainly would hope to reduce those charges when the contract is
3 renegotiated to a level commensurate with the lower transaction fees
4 contained in the Public Staff's proposed adjustment.

5 **Q. If the Commission does not approve full cost recovery, does that**
6 **Company have an alternative request?**

7 A. Yes. The Company requests complete removal of this from its revenue
8 requirement. Under this circumstance, the Company requests it be
9 allowed to continue collecting these fees from specific customers as they
10 are incurred. This will reduce the Company's requested revenue
11 requirement in this proceeding by \$1,475,923.

12 **Q. In her direct testimony, Public Staff witness Perry proposes an**
13 **adjustment to amortization of protected EDIT. What is your**
14 **response to Ms. Perry's proposal?**

15 A. I would like to acknowledge here the Company's recent identification that
16 its application inadvertently represented the amortization of protected
17 EDIT in base rate in a way that does not conform with IRS tax
18 normalization requirements. To comply with such IRS tax normalization
19 requirements, the Company's annual amortization expense of protected
20 EDIT adopted in this proceeding needs to be no greater than \$(2,795,775).
21 Since Ms. Perry's proposed amortization to protected EDIT is in excess of
22 this amount, it should be rejected. Further details on this matter pertaining

1 will be included in my forthcoming supplemental testimony to specifically
2 address this issue.

3 **Q. What is your position on the Public Staff's proposed removal from**
4 **rate base of the amounts associated with the assets that the Company**
5 **uses to provide natural gas service to Duke Lincoln?**

6 A. The Public Staff presented no legitimate evidence to support the net
7 \$2,120,901 adjustment to rate base, only citing a reference to a vague
8 footnote indicating the amount came from a prior general rate case.
9 Piedmont does not currently possess granular records of individual
10 additions to utility plant in service for assets of this vintage as requested
11 by the Public Staff during discovery. Given the lack of information, the
12 Public Staff used a number that had a very unclear origin to make an
13 adjustment that does not meet any reasonable standard for support and
14 should be rejected in its entirety.

15 **Q. Ms. Perry also proposes to remove certain O&M and A&G expenses**
16 **associated with the Robeson LNG plant on the basis of Mr. Metz's**
17 **removal of Robeson plant from rate base. Do you agree with that**
18 **adjustment?**

19 A. I do not. Piedmont witness Adam Long's rebuttal testimony explains the
20 status of the Robeson LNG facilities and supports Piedmont's expectation
21 that they will qualify for rate base treatment in this proceeding. Mr. Long
22 will provide supplemental testimony to inform the Commission after key
23 milestones have been achieved and the facility has been closed to utility

1 plant on Piedmont's books. Accordingly, the expenses removed by Ms.
2 Perry should not be removed from our proposed revenue requirement in
3 this case subsequent to Mr. Long's pending update.

4 **Q. Did you discover any mathematical errors in the Public Staff's direct**
5 **Testimony?**

6 A. Yes, we discovered such errors and have discussed them with the Public
7 Staff and understand they plan to correct these errors in an updated filing.

8 **Q. Are there other areas of adjusted expense from the Public Staff**
9 **testimony that you disagree with?**

10 A. Yes, but they are fundamentally flow-through impacts of the contested
11 adjustments discussed above and involve the following areas:

- 12 • Depreciation and Accumulated Depreciation
- 13 • Property Tax Expense
- 14 • Payroll Tax Expense
- 15 • Deferred Eastern NCNG Amortization Expense
- 16 • Regulatory Fee
- 17 • All components of rate base

18 **Q. Do you have any further comments on the Public Staff's accounting**
19 **adjustments?**

20 A. Not on their direct testimony, but I understand the Public Staff intends to
21 file supplemental testimony concerning our update filing made July 28,
22 2021 and the correction of certain errors. I would respectfully reserve the

1 right to respond to any supplemental testimony that may be filed in this
2 proceeding.

3 **Q. Does this conclude your rebuttal testimony?**

4 **A.** Yes, it does.

1 MR. JEFFRIES: Thank you,
2 Chair Mitchell. We'd also request that
3 Ms. Bowman's prefiled direct Exhibits QPB-1 through
4 QPB-8, and her prefiled Supplemental Exhibits QPB-1
5 Updated through QPB-8 Updated be identified as
6 marked.

7 CHAIR MITCHELL: All right. The
8 exhibits to the witness' testimony will be marked
9 for identification as they were when prefiled.

10 (Exhibits QPB-1 through QPB-8 and
11 Supplemental Exhibits QPB-1 Updated
12 through QPB-8 Updated, were identified
13 as they were marked when prefiled.)

14 MR. JEFFRIES: Thank you.

15 Q. Ms. Bowman, have you prepared a summary of
16 your prefiled testimonies?

17 A. I have.

18 Q. Could you please provide that to the
19 Commission.

20 A. My name is Quynh Bowman, and I'm the director
21 of gas rates and regulatory strategy for Piedmont
22 Natural Gas. I prefiled direct testimony in this
23 docket on March 22, 2021, in support of Piedmont's
24 application for a general rate increase. I also filed

1 supplemental testimony on July 28, 2021, in support of
2 Piedmont's updated cost of service calculation as of
3 June 30, 2021. Further, on August 25, 2021, I
4 submitted prefiled rebuttal testimony in this
5 proceeding.

6 My prefiled direct testimony explains and
7 supports: one, Piedmont's rate base at
8 December 31, 2020, and the actual of results of
9 Piedmont's operations for the test period which is the
10 12 months ending December 31, 2020; two, the results of
11 Piedmont's test period operations under present rates
12 as adjustment for accounting and pro forma changes to
13 the Company's operating revenue, operating expense,
14 capital structure, and rate base; three, the additional
15 revenue required to appropriately support Piedmont's
16 pro forma cost of service; four, Piedmont's compliance
17 with Commission Form G-1 minimum filing requirements
18 for this general rate case application; and five, the
19 amortization of certain deferred expenses that
20 previously have been granted regulatory asset treatment
21 by the Commission.

22 My prefiled direct testimony is accompanied
23 by eight exhibits which provide support for the five
24 topics I previously mentioned.

1 I also filed supplemental testimony in this
2 docket on July 28, 2021, in support of the Company's
3 updated cost of service calculation as of
4 June 30, 2021, which was performed and filed pursuant
5 to North Carolina General Statute Section 62-133(c) and
6 Commission Rule R1-17(c).

7 Finally, I submitted prefiled rebuttal
8 testimony in this docket on August 25, 2021, to respond
9 to a number of accounting adjustments proposed by
10 Commission Public Staff. Specifically, I addressed the
11 adjustments recommended in the testimonies of Public
12 Staff witnesses Feasel, Coleman, and Perry.

13 This concludes the summary of my prefiled
14 direct, supplemental, and rebuttal testimony.

15 Q. Thank you, Ms. Bowman.

16 MR. JEFFRIES: Chair Mitchell,
17 Ms. Bowman is available for cross examination
18 questions by the Commission.

19 CHAIR MITCHELL: All right. My notes
20 indicate that the Attorney General's Office has
21 cross for the witness.

22 MS. FORCE: No questions. Thank you.

23 CHAIR MITCHELL: All right. Questions
24 from Commissioners for the witness?

1 (No response.)

2 CHAIR MITCHELL: Any questions from
3 Commissioners?

4 (No response.)

5 CHAIR MITCHELL: All right. Ms. Bowman,
6 you are off the hook this morning. Thank you,
7 ma'am, for your participation in this proceeding.
8 You may step down.

9 And, Mr. Jeffries, intent to recall the
10 witness?

11 MR. JEFFRIES: No intent to recall
12 Ms. Bowman.

13 CHAIR MITCHELL: All right. Ms. Bowman,
14 you may be excused from the proceeding.

15 All right. Mr. Jeffries, I'll take a
16 motion.

17 MR. JEFFRIES: Thank you,
18 Chair Mitchell. Piedmont would move that
19 Ms. Bowman's prefiled direct Exhibits QPB-1 through
20 QPB-8, and her prefiled Supplemental Exhibits QPB-1
21 Updated through QPB-8 Updated be entered into
22 evidence in the proceeding.

23 CHAIR MITCHELL: All right. Hearing no
24 objection to the motion, it will be allowed. And

1 the exhibits to the witness' testimony will be
2 accepted into the record.

3 (Exhibits QPB-1 through QPB-8 and
4 Supplemental Exhibits QPB-1 Updated
5 through QPB-8 Updated, were admitted
6 into evidence.)

7 MR. JEFFRIES: Thank you,
8 Chair Mitchell.

9 CHAIR MITCHELL: All right. You may
10 call your next witness.

11 MR. JEFFRIES: Thank you. Piedmont
12 would call Mr. Ken Sosnick to the stand.

13 CHAIR MITCHELL: All right.
14 Mr. Sosnick, would you raise your right hand,
15 please, sir.

16 Whereupon,

17 KENNETH A. SOSNICK,
18 having first been duly affirmed, was examined
19 and testified as follows:

20 CHAIR MITCHELL: All right. You may
21 proceed, Mr. Jeffries.

22 MR. JEFFRIES: Thank you.

23 DIRECT EXAMINATION BY MR. JEFFRIES:

24 Q. Good morning, Mr. Sosnick.

1 A. Good morning.

2 Q. Would you state your name and business
3 address for the record, please.

4 A. My name is Kenneth Sosnick. My business
5 address is 200 State Street, and we're located on
6 the --

7 (Reporter interruption due to sound
8 failure.)

9 CHAIR MITCHELL: All right.

10 Mr. Sosnick -- we've lost him.

11 THE WITNESS: Can you not hear me?

12 MR. JEFFRIES: We can now, it's much
13 better than it was.

14 THE WITNESS: Okay. Sorry about that.

15 Q. Yeah, I'm not sure what was going on there
16 again, but let's try it again.

17 Could you state your name and business
18 address for the record, please?

19 A. My name is Kenneth Sosnick. My business
20 address is 200 State Street, Ninth Floor, Boston,
21 Massachusetts 02109.

22 Q. And where do you work, Mr. Sosnick?

23 A. FTI Consulting.

24 Q. Okay. And what's your position as FTI

1 Consulting?

2 A. I'm a managing director.

3 Q. Thank you. And you're also the same
4 Mr. Sosnick that was moved to substitute for the prior
5 testimony of Mr. DeCoursey in this proceeding; is that
6 correct?

7 A. I am.

8 Q. Okay. And you -- after that motion was
9 allowed, you prefiled direct testimony in your name on
10 August 23, 2021, consisting of 29 pages, and along with
11 Exhibit KAS-1, correct?

12 A. Yes.

13 Q. Okay. Do you have any corrections to your
14 prefiled testimony or exhibits?

15 A. I have three corrections. On page 5, line 4,
16 there is a duplicative parentheses after "Transco." On
17 page 6, line 15, it reads "\$0.0294," and it should be
18 changed to \$0.00294, so an additional zero there. And
19 on page 20, Table 2, the "total" line, the "variable
20 adder" column which reads "412188" should be changed to
21 364188.

22 Q. And just for clarity, you said the variable
23 adder column; it's the "no variable adder" column,
24 correct?

1 A. No variable adder, yes. Sorry.

2 Q. Thank you. Mr. Sosnick, if I asked you the
3 same questions that are set forth in your prefiled
4 testimony with the corrections you noted while you were
5 on the stand today, would your answers be the same?

6 A. Yes.

7 MR. JEFFRIES: Chair Mitchell, we would
8 move that Mr. Sosnick's prefiled direct testimony
9 be entered into the record as if given orally from
10 the stand.

11 CHAIR MITCHELL: All right. Hearing no
12 objection to the motion, the testimony of witness
13 Sosnick will be copied in the record as if
14 delivered orally from the stand.

15 (Whereupon, the prefiled direct
16 testimony of Kenneth A. Sosnick was
17 copied into the record as if given
18 orally from the stand.)
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**Before the
North Carolina Utilities Commission**

**Docket No. G-9, Sub 722
Docket No. G-9, Sub 781**

General Rate Case

**Direct Testimony and Exhibit
of
Kenneth A. Sosnick**

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

PUBLIC VERSION

August 23, 2021

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

2 A. My name is Kenneth A. Sosnick. My business address is 200 State Street,
3 Boston, MA, 02109.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am a Managing Director in the Power & Utilities practice at FTI
6 Consulting, Inc. ("FTI").

7 **Q. Please describe FTI and its Power & Utilities practice.**

8 A. FTI is a worldwide consulting firm dedicated to helping organizations
9 manage change, mitigate risk, and resolve disputes. Our Power & Utilities
10 practice brings these services to firms in regulated and competitive energy
11 industries. The services we provide our utility clients include expert
12 testimony, regulatory advice, support for strategic decision-making, and
13 advice regarding investments and capital allocation. Our team is comprised
14 of former utility executives, regulators, investors, and financial analysts that
15 combine for hundreds of years of experience in the regulated energy space.

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

17 A. I have been with FTI since 2019. Previously, I consulted with Concentric
18 Energy Advisors, Inc. in Marlborough, MA, and with MRW & Associates
19 in Oakland, CA. I hold a Bachelor of Science in Accounting from the
20 Indiana University of Pennsylvania. A current copy of my resume is
21 included as Exhibit __ (KAS-1).

1 **Q. Have you previously testified before the North Carolina Utilities**
2 **Commission (“Commission”) or any other regulatory authority?**

3 A. I have not previously testified before the Commission. I have appeared as
4 an expert before utility regulators in the District of Columbia, Michigan,
5 and New Hampshire and also before the Federal Energy Regulatory
6 Commission and the Florida legislature. Additionally, I have been retained
7 in several instances to advise state regulators and their staff, including
8 assignments I completed on behalf of utility regulators in California,
9 Maryland, and New Jersey.

10 **Q. On whose behalf are you appearing in this proceeding?**

11 A. I am appearing on behalf of Piedmont Natural Gas Company, Inc.
12 (“Piedmont” or the “Company”).

13 **I. Summary and Overview**

14 **Q. What is the purpose of your testimony?**

15 A. The purpose of my testimony is to support the agreement between Piedmont
16 and Duke Energy Carolinas (“DEC”) for the construction of new facilities
17 (the “Incremental Facilities”) and the delivery of natural gas by Piedmont
18 to DEC’s Lincoln County Turbine Facility (the “Lincoln CT”), the most
19 recent version of which was filed with the Commission in November 2018
20 in Docket No. G-9, Sub 722 (the “Lincoln Agreement”). As I discuss later
21 in my testimony, the Lincoln Agreement is a revision from a previous
22 version that had been filed for the Commission’s consideration. The update

1 to the agreement was required because of concerns expressed by the Public
2 Staff (“Public Staff”), which I discuss in detail later in my testimony.

3 **Q. What have you concluded regarding the Lincoln Agreement?**

4 A. I have concluded that the terms of the Lincoln Agreement, including,
5 specifically, [BEGIN CONFIDENTIAL] [REDACTED]
6 [REDACTED] [END
7 CONFIDENTIAL] are appropriate and comport with utility industry best
8 practices. I have also concluded that the Lincoln Agreement, as it is
9 currently formulated, creates significant benefits for Piedmont’s customers.
10 Finally, I have concluded that a recommendation by the Public Staff to
11 [BEGIN CONFIDENTIAL] [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED] [END CONFIDENTIAL]

15 **Q. How is the rest of your testimony organized?**

16 A. Below, in Section II, I summarize the Lincoln Agreement and explain why
17 it is consistent with best practices in the utility industry. I also discuss my
18 conclusion that there is no evidence to indicate that DEC has received
19 favorable terms because it is a Piedmont affiliate. In Section III, I discuss
20 Staff’s recommended changes to the Lincoln Agreement and explain why
21 those recommendations are inappropriate and would increase costs for
22 electric customers. In Section IV, I describe the benefits that accrue to

1 Piedmont's customers from the Lincoln Agreement. Finally, in Section V,
2 I summarize my conclusions and their support for my recommendation that
3 the Commission accept the Lincoln Agreement without modification.

4 **II. The Lincoln Agreement is Consistent with Best Practices in the**
5 **Utility Industry**

6 **Q. Please summarize this section of your testimony.**

7 A. In this section of my testimony, I summarize key elements of the Lincoln
8 Agreement, describe how contract rates provide for Piedmont's recovery of
9 the costs of the new facilities, and discuss how the cost assignment and
10 recovery methods described therein align closely with industry best
11 practices. Additionally, I explain why the Commission should not be
12 concerned that this transaction is taking place between affiliate companies
13 since these contracts require Commission approval and full transparency is
14 available to the Commission and the Public Staff.

15 *Summary of the Lincoln Agreement*

16 **Q. Have you reviewed the Lincoln Agreement?**

17 A. Yes. The Company provided me with a copy of the confidential version of
18 the Lincoln Agreement that was filed with the Commission on November
19 16, 2018.

20 **Q. Please describe the infrastructure that was built pursuant to the**
21 **Lincoln Agreement.**

1 A. Among other things, the Lincoln Agreement requires the Company to build
2 approximately [BEGIN CONFIDENTIAL] [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [END CONFIDENTIAL] along with a delivery station. The Incremental
6 Facilities expand the capacity of existing infrastructure (the “Existing
7 Facilities”) from which the Lincoln CT receives gas from Transco. The
8 total cost of the Incremental Facilities was estimated to be [BEGIN
9 CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL]
10 including the cost of the pipeline, the cost of the delivery station, and other
11 costs.¹

12 **Q. Do either the Existing Facilities or the Incremental Facilities**
13 **interconnect with any other element of the Piedmont distribution**
14 **system?**

15 A. No. Both the Existing Facilities and Incremental Facilities run only
16 between Transco and the Lincoln CT. Neither are connected with any
17 portion of Piedmont’s system that serves other customers.
18

¹ I am aware that the capital costs indicated in the Lincoln Agreement and reflected in the COS Study were based on an estimate and that Piedmont’s actual costs of the Incremental Facilities were somewhat higher. For purposes of my testimony, I have focused on the cost estimate pending at the time the Lincoln Agreement was executed since it provides the basis for the rates included in the contract. It is my understanding that the rates under the Lincoln Agreement have been trued up to reflect actual construction costs.

1 **Q. What quantity of gas is covered under the Lincoln Agreement?**

2 A. DEC’s entitlement, referred to as the Transportation Contract Quantity
3 (“TCQ”), is [BEGIN CONFIDENTIAL] [REDACTED] [END
4 CONFIDENTIAL] dekatherms per day (“Dth/day”). The TCQ includes
5 capacity from the Existing Facilities and from the Incremental Facilities.

6 **Q. Are rates that DEC will pay to use the Incremental Facilities fixed or
7 variable?**

8 A. [BEGIN CONFIDENTIAL] [REDACTED]
9 [REDACTED] [END CONFIDENTIAL]

10 **Q. Please describe the fixed charges.**

11 A. As shown in Attachment B of the Lincoln Agreement, Piedmont’s [BEGIN
12 CONFIDENTIAL] [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED] [END CONFIDENTIAL]

16 **Q. Can you explain how the COS was derived?**

17 A. The cost to own and operate the Existing Facilities was known to be
18 [BEGIN CONFIDENTIAL] [REDACTED]
19 [REDACTED] [END CONFIDENTIAL]
20 Piedmont conducted a COS Study to determine the cost to own and operate
21 the Incremental Facilities, which it determined to be [BEGIN
22 CONFIDENTIAL] [REDACTED]

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[REDACTED]

[REDACTED] [END CONFIDENTIAL]

Q. Have you reviewed the COS Study?

A. Yes, Piedmont provided me with a copy. I understand that the same copy was also provided to Public Staff.

Q. Have you reached any conclusions about Piedmont’s costs of owning and operating the Incremental Facilities?

A. Yes, I conclude that Piedmont’s costs are all fixed, or nearly so. Below, in Table 1, I have totaled the COS for the Incremental Facilities for the first three years included in the COS Study for [BEGIN CONFIDENTIAL]

[REDACTED]

[REDACTED] [END CONFIDENTIAL] O&M, the only cost element that could plausibly vary as a function of volumes flowed across the Incremental Facilities, was projected by Piedmont to increase at a rate of exactly [BEGIN CONFIDENTIAL] [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] [END CONFIDENTIAL]

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Table 1. Incremental Facilities COS for Years 1-3

	Year 1	Year 2	Year 3	Average	% total
O&M	[BEGIN CONFIDENTIAL]				
Depreciation					
Taxes					
Return					
Total ²					[END CONFID- ENTIAL]

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Q. Is it significant that Piedmont’s costs for the Incremental Facilities are all fixed, or nearly so?

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A. Yes. As I discuss later in my testimony, the fact that [BEGIN

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CONFIDENTIAL] [REDACTED]

7

[REDACTED] [END CONFIDENTIAL]

8

Q. Please describe the [BEGIN CONFIDENTIAL] [REDACTED] [END

9

CONFIDENTIAL] that are defined by the Lincoln Agreement.

10

A. There are two. [BEGIN CONFIDENTIAL] [REDACTED]

11

[REDACTED]

12

[REDACTED]

13

[REDACTED]

² As discussed previously, payments to Piedmont under the Lincoln Agreement are [BEGIN CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL]

1 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [END
2 CONFIDENTIAL]

3 Q. Was the Incremental Facilities [BEGIN CONFIDENTIAL] [REDACTED]
4 [REDACTED] [END CONFIDENTIAL] designed to recover Piedmont’s costs for
5 the Incremental Facilities?

6 A. No, it is a rate that Piedmont developed in response to [BEGIN
7 CONFIDENTIAL] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [END
8 CONFIDENTIAL] As I understand it, the Public Staff requested the
9 inclusion of a volumetric “system support” charge in addition to the charges
10 that had been included in other contracts approved by the Commission.
11 [BEGIN CONFIDENTIAL] [REDACTED]
12 [REDACTED] [END
13 CONFIDENTIAL]

14 Q. [BEGIN CONFIDENTIAL] [REDACTED]
15 [REDACTED]

16 A. [REDACTED]
17 [REDACTED]
18 [REDACTED] [REDACTED]
19 [REDACTED]

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Q. [REDACTED]

A. [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] [END CONFIDENTIAL]

Q. Does the Lincoln Agreement require Piedmont to return revenues greater than its COS to DEC?

A. No.

Q. Do the revenues Piedmont will collect [BEGIN CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL] benefit its shareholders?

A. No. My understanding is that all the earnings from the Lincoln Agreement are included in the test year revenues the Company reported in this proceeding. Accordingly, any earnings from the Lincoln Agreement that are [BEGIN CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL] reduce rates for Piedmont's other customers.

Q. Why does Public Staff believe a volumetric rate component is necessary?

1 A. In its comments filed in this proceeding from June 1, 2020 (the “Public Staff
 2 Comments”), Public Staff explains its belief that “...the purpose of [a]
 3 volumetric rate component included in special and electric generation
 4 contracts is to provide recovery of costs related to existing local distribution
 5 company (LDC) infrastructure and operations and to prevent subsidization
 6 of the contract customer by the LDC’s other customers.”⁴ In other words,
 7 Public Staff believes when service to a generation customer creates costs
 8 from the use of other elements of the distribution system, a volumetric
 9 charge should be applied to prevent such costs from being borne by other
 10 customers.

11 **Q. Do you agree?**

12 A. Not in this instance. Neither the Existing Facilities nor the Incremental
 13 Facilities connect with any other element of Piedmont’s system, so it is not
 14 possible that deliveries to the Lincoln CT can result in the kinds of cost
 15 increases for the Company’s other customers [BEGIN CONFIDENTIAL]

16 [REDACTED]
 17 [REDACTED]
 18 [REDACTED]
 19 [REDACTED]

4 [REDACTED]

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Q. [REDACTED]

A. [REDACTED] [END CONFIDENTIAL]

The Lincoln Agreement Adheres to Industry Best Practices Regarding Cost Recovery and Rate Design

Q. How is the cost of infrastructure that is built to serve a new customer typically recovered in the utility industry?

A. When infrastructure is built to serve either a single customer or an identifiable group of customers, the costs of that infrastructure are generally recovered from that customer or customers. Often, that is accomplished via a special rate that is designed to recover the COS of the new infrastructure.

Q. Please explain the concept of subsidization, as you used the term earlier in your testimony.

A. Subsidization occurs when one customer or group of customers is made to pay for costs that were caused by another customer(s). Avoidance of subsidization is an important goal of utility ratemaking.

Q. How does the concept apply to the Lincoln Agreement?

1 A. The current circumstance creates one of the least ambiguous situations of
2 cost causality, recovery, and subsidization imaginable. The Incremental
3 Facilities were built at the request of a single customer, DEC. The cost to
4 build and operate those facilities is known and is clearly distinguishable
5 from the cost to own and operate the rest of Piedmont's system and [BEGIN
6 CONFIDENTIAL] [REDACTED]
7 [END CONFIDENTIAL] Because none of the infrastructure that Piedmont
8 uses to serve the Lincoln CT (neither the Existing Facilities nor the
9 Incremental Facilities) is connected to any other element of its system
10 [BEGIN CONFIDENTIAL] [REDACTED]
11 [REDACTED] [END CONFIDENTIAL] there is no risk of subsidization by
12 Piedmont's other customers since there is no mechanism by which their
13 costs could increase.

14 **Q. Does the Lincoln Agreement recover all of the costs to serve the Lincoln**
15 **CT from DEC?**

16 A. Yes.

17 **Q. Do any of Piedmont's other customers subsidize DEC?**

18 A. No.

19 **Q. Does DEC subsidize Piedmont's other customers?**

20 A. Strictly speaking, yes, DEC is subsidizing Piedmont's other customers since
21 the Lincoln Agreement generates more revenue than Piedmont's COS.

22 **Q. Is the creation of that subsidy problematic?**

- 1 A. Not in this case. As I explain in greater detail later in my testimony,
2 [BEGIN CONFIDENTIAL] [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED] [END CONFIDENTIAL]
- 7 **Q. Generally speaking, is the cost of new utility infrastructure best**
8 **recovered on a fixed or variable basis?**
- 9 A. It is a widely held principle of utility ratemaking that costs should be
10 recovered on the same basis as they are incurred. Fixed costs, which include
11 costs such as fixed O&M, depreciation, return on equity, taxes, and others,
12 are the same for a utility regardless of how much gas flows over the system;
13 such costs are best recovered via fixed charges. Volumetric costs, such as
14 variable O&M, increase and decrease as system utilization increases and
15 decreases. These costs are best recovered via variable charges.
- 16 **Q. Why?**
- 17 A. Aligning cost causation with cost recovery reduces the potential for
18 subsidization between customers and customer classes, and because doing
19 so decreases the likelihood that a utility's revenues will deviate significantly
20 from its costs.

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Q. Please explain.

A. If one assumes, for example, that some element of a utility’s COS is variable in the sense that its costs increase when customer consumption increases, and *vice versa*, then recovering that cost through an appropriate variable rate means costs, revenues and system utilization will all rise and fall together, making it more probable that the utility will recover its costs and authorized return. If, on the other hand, a fixed cost is recovered via a variable rate, changes in consumption levels can result in large mismatches between costs and revenues, which can be problematic from a ratemaking perspective.

Q. How does this situation apply to the Lincoln Agreement?

A. All or nearly all of Piedmont’s costs to provide service under the Lincoln Agreement are fixed. [BEGIN CONFIDENTIAL] [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] [END CONFIDENTIAL]

There is No Affiliate Issue

Q. Are Piedmont and DEC affiliates?

A. Yes, both are wholly owned subsidiaries of Duke Energy.

1 **Q. Are you therefore concerned that Piedmont is offering DEC favorable**
2 **terms because it is an affiliate?**

3 A. No.

4 **Q. Why not?**

5 A. Because pricing for service from the Incremental Facilities is based on a
6 transparent COS Study that Piedmont has shared with the Public Staff and
7 the Commission which shows the complete derivation of the rates Piedmont
8 has offered. Simply put, the Company has no opportunity to offer a rate
9 less than its COS in a way that would not be apparent on review.

10 **III. Public Staff's Recommendation is Without Support and Would**
11 **Create Rates Inconsistent with Industry Best Practice**

12 **Q. Please summarize this section of your testimony.**

13 A. In this section of my testimony I summarize a recommendation by Public
14 Staff to [BEGIN CONFIDENTIAL] [REDACTED]
15 [REDACTED] [END CONFIDENTIAL] describe
16 how that recommendation is without any meaningful basis, and explain that
17 the Commission's acceptance would arbitrarily transfer costs between gas
18 and electric ratepayers in North Carolina. I also explain that the inclusion
19 of Public Staff's [BEGIN CONFIDENTIAL] [REDACTED] [END
20 CONFIDENTIAL] would result in a rate structure inconsistent with utility
21 best practices since it would disconnect cost causation with revenue

1 recovery and necessarily create subsidies among Piedmont’s customer
2 classes.

3 Public Staff’s Recommendation Has No Basis and Would Increase
4 Costs for Electric Customers

5 **Q. Please summarize your understanding of the discussions among**
6 **Piedmont, DEC, and Public Staff regarding the inclusion of [BEGIN**
7 **CONFIDENTIAL] [REDACTED] [END**
8 **CONFIDENTIAL]**

9 **A.** As I understand it, a prior version of the Lincoln Agreement that was filed
10 with the Commission on April 23, 2018 and provided for Piedmont’s
11 recovery of the costs of the Incremental Facilities [BEGIN
12 CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL]

13 During ensuing discussions between the parties, Public Staff indicated that
14 it believed [BEGIN CONFIDENTIAL] [REDACTED]
15 [REDACTED]
16 [REDACTED] [REDACTED]
17 [REDACTED] [END
18 CONFIDENTIAL]

⁵ Public Staff Comments, at 7-8.
⁶ Other differences between the Lincoln Agreement and the version that was filed in April 2018 include a reduction in Piedmont’s capital cost requirements, which I understand to have been caused by the elimination of certain facilities that would be used for system inspections.

1 **Q. What is the Public Staff’s recommendation?**

2 A. That the [BEGIN CONFIDENTIAL] [REDACTED]
3 [REDACTED] [END CONFIDENTIAL]

4 **Q. Expressed in percentage terms, how large of an increase would that**
5 **represent?**

6 A. Public Staff’s recommendation would [BEGIN CONFIDENTIAL] [REDACTED]
7 [REDACTED] [END
8 CONFIDENTIAL]

9 **Q. Why does the Public Staff believe a larger rate is required?**

10 A. As I explain previously, Public Staff is concerned that incremental service
11 to the Lincoln CT will increase costs to Piedmont’s customers and that DEC
12 should therefore [BEGIN CONFIDENTIAL] [REDACTED]
13 [REDACTED] [END CONFIDENTIAL]

14 **Q. Do you agree?**

15 A. No.

16 **Q. Does the Public Staff explain how the Incremental Facilities can**
17 **increase costs for existing customers despite being physically separate**
18 **from the rest of the Piedmont system?**

19 A. No.

7 [BEGIN CONFIDENTIAL] [REDACTED] [END
CONFIDENTIAL]

1 **Q. How much would the increase recommended by the Public Staff cost**
2 **DEC?**

3 A. In comments it filed in this proceeding, DEC indicated that its costs would
4 [BEGIN CONFIDENTIAL] [REDACTED] [END
5 CONFIDENTIAL]

6 **Q. Would that amount represent a large change in DEC’s payments?**

7 A. Yes. Table 2 compares the annual cost to DEC under the three different
8 sets of payment structures. [BEGIN CONFIDENTIAL] [REDACTED]

9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED] [REDACTED]
17 [REDACTED]

18 [REDACTED] [END CONFIDENTIAL] Calculating the annual payments
19 that would be made under each structure shows that if Public Staff’s
20 recommendation is accepted, DEC’s costs [BEGIN CONFIDENTIAL]

⁸ DEC Comments, at 7.

1

[REDACTED]

2

[REDACTED]

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[REDACTED] [END CONFIDENTIAL]

4

Table 2. Annual Contract Costs to DEC for [BEGIN CONFIDENTIAL]

5

[REDACTED] [END CONFIDENTIAL] to the New

6

Incremental Facilities

7

[BEGIN CONFIDENTIAL]

[REDACTED]

8

[END CONFIDENTIAL]

9

Q. Has Public Staff explained why it believes that DEC's annual payments

10

under the Lincoln Agreement should [BEGIN CONFIDENTIAL] [REDACTED]

11

[REDACTED] [END CONFIDENTIAL]

12

A. No.

13

Q. Has Public Staff offered any evidence that providing DEC service

14

under the Lincoln Agreement will increase costs to Piedmont's other

15

customers [BEGIN CONFIDENTIAL] [REDACTED] [END

16

CONFIDENTIAL]

17

A. No.

1 **Q. Has Public Staff provided any relevant evidence to show that [BEGIN**
2 **CONFIDENTIAL]** [REDACTED]
3 [REDACTED] **[END CONFIDENTIAL]**

4 A. No. The Public Staff Comments include a discussion of analyses of O&M
5 costs for customers served under Piedmont’s Rate Schedule 113, but no
6 explanation is made as to whether or how those analyses apply to the
7 Lincoln Agreement nor are any calculations or results actually provided.⁹
8 References to agreements reached between Piedmont and a glass
9 manufacturer are likewise vague and unsupportive, as is a general
10 description of elements of other commercial agreements between gas
11 utilities and other electric generators, neither the specifics nor relevance of
12 which are explained.¹⁰

13 **Q. Has Public Staff attempted to reconcile [BEGIN CONFIDENTIAL]** [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED] **[END CONFIDENTIAL]**

17 A. No.

18 **Q. What do you believe would be the result of the Commission’s**
19 **acceptance of Public Staff’s recommendation?**

⁹ Public Staff Comments, at 12
¹⁰ Public Staff Comments, at 12-13

1 A. If we assume that DEC would continue to participate in the Lincoln
 2 Agreement and operate the Lincoln CT in precisely the same manner as it
 3 would otherwise, then its costs would [BEGIN CONFIDENTIAL] [REDACTED]
 4 [REDACTED]
 5 [REDACTED]
 6 [REDACTED]
 7 [END CONFIDENTIAL]

8 **Q. Who would bear the cost of the subsidy?**

9 A. In this instance, the cost would be passed on to DEC’s electric customers.
 10 As Piedmont [BEGIN CONFIDENTIAL] [REDACTED] [END
 11 CONFIDENTIAL] for the Incremental Facilities, its costs to serve its other
 12 gas customers would decrease, causing its distribution rates to decline, all
 13 else being equal. That benefit would be paid for by DEC’s electric
 14 ratepayers, who would absorb the added cost of operating the Lincoln CT.
 15 As I understand the configuration of the utility service territories in North
 16 Carolina, there is significant, but not complete, overlap between the service
 17 territories of Piedmont and DEC, which could mean that, in some cases,
 18 DEC customers who do not take service from Piedmont would bear the cost
 19 of this subsidy but not benefit from offsetting reductions in gas costs.

20 **Q. Could the Commission’s acceptance of Public Staff’s recommendation**
 21 **cause DEC to stop taking service under the Lincoln Agreement?**

1 A. Possibly, but I do not have enough information to reach a conclusion on that
2 question.

3 Public Staff's Recommendation is Inconsistent with Industry Best
4 Practices

5 **Q. Is Public Staff's recommendation consistent with industry best**
6 **practices?**

7 A. No. If Public Staff's recommendation is accepted, the Lincoln Agreement
8 would, by design, create revenues that are [BEGIN CONFIDENTIAL]

9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED] [END CONFIDENTIAL]

17 **Q. Given the explanations of industry best practices that you have**
18 **provided, are you concerned that the Lincoln Agreement [BEGIN**
19 **CONFIDENTIAL] [REDACTED]**

20 [REDACTED]
21 [REDACTED] [END CONFIDENTIAL]

22 A. No. Despite those considerations, I find that the Lincoln Agreement is
23 consistent with industry best practices and recommend its approval by the

1 Commission without modification for several reasons. *First*, the fixed
 2 charge included in the Lincoln Agreement provides for recovery of
 3 Piedmont’s COS in a way that aligns costs and revenues, is transparent, and
 4 reduces the risk of large over- or under-recoveries. *Second*, the amount of
 5 revenue generated [BEGIN CONFIDENTIAL] [REDACTED]
 6 [REDACTED]
 7 [REDACTED]
 8 [REDACTED]
 9 [REDACTED]
 10 [REDACTED] [END CONFIDENTIAL] go to Piedmont’s
 11 other customers, who also realize additional benefits that I explain in the
 12 next section of my testimony. In other words, the contract includes terms
 13 that are acceptable to both buyer and seller, it creates no costs or risks to
 14 other customers, and it will reduce costs for the Company’s existing
 15 customers, all of which support the Commission’s approval.

16 **IV. The Lincoln Agreement as Currently Formulated Provides**
 17 **Significant Benefits.**

18 **Q. Please summarize this section of your testimony.**

19 **A.** In this section of my testimony, I explain that the Lincoln Agreement, as
 20 currently formulated, reduces distribution costs for Piedmont’s other
 21 ratepayers because the [BEGIN CONFIDENTIAL] [REDACTED]
 22 [REDACTED]

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[REDACTED]

[REDACTED] [END CONFIDENTIAL]

Q. How much do you expect Piedmont to earn [BEGIN CONFIDENTIAL]

[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [END

CONFIDENTIAL] each year?

A. As I explain above, if the Lincoln CT's consumption is [BEGIN

CONFIDENTIAL] [REDACTED]

[REDACTED]

[REDACTED] [END

CONFIDENTIAL]

Q. Does that amount offset Piedmont's COS?

A. No. As I explained previously in my testimony, all of the Company's costs

[BEGIN CONFIDENTIAL] [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] [END CONFIDENTIAL]

Q. Would you characterize that as a significant amount of revenue?

A. Yes. Revenues above COS that total approximately [BEGIN

CONFIDENTIAL] [REDACTED]

[REDACTED] [END

CONFIDENTIAL]

1 **Q. Public Staff’s recommendation could generate even more revenues for**
2 **Piedmont’s existing customers; would you characterize the extra**
3 **revenues that could be generated as unreasonable?**

4 A. Yes, I would. As I explained previously in my testimony, Public Staff’s
5 recommendations could [BEGIN CONFIDENTIAL] [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED] [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED] [END CONFIDENTIAL] COS for providing its
14 service.

15 **Q. Please summarize the [BEGIN CONFIDENTIAL] [REDACTED]**
16 **[REDACTED] [END CONFIDENTIAL]**

17 A. The method that Piedmont used to estimate the [BEGIN CONFIDENTIAL]
18 [REDACTED]
19 [REDACTED] [END CONFIDENTIAL] is
20 recovered, which increase revenues from the contract and benefit

¹¹ (\$500,000 per year) * (20 years) = \$10 million

1 Piedmont’s other customers. This issue is discussed in detail in Mr.
2 Barkley’s testimony.¹²

3 **V. Summary of Conclusions and Recommendations**

4 **Q. Please summarize your conclusions.**

5 A. My testimony supports the following conclusions:

6 1. The Lincoln Agreement comports with best industry practices
7 regarding the alignment of cost causation with cost recovery.

8 2. The Lincoln Agreement comports with best industry practices
9 regarding rate design.

10 3. Public Staff’s recommended [BEGIN CONFIDENTIAL] [REDACTED]
11 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [END
12 CONFIDENTIAL] is without basis.

13 4. Public Staff’s recommended [BEGIN CONFIDENTIAL] [REDACTED]
14 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [END
15 CONFIDENTIAL] would create rates that are inconsistent with
16 industry best practices.

17 5. Public Staff’s recommended [BEGIN CONFIDENTIAL] [REDACTED]
18 [REDACTED]
19 [REDACTED] [END CONFIDENTIAL] among Piedmont’s customer
20 classes.

¹² Barkley testimony at p. 14.

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6. Public Staff's [BEGIN CONFIDENTIAL] [REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [END
CONFIDENTIAL] would unreasonably increase costs to electric
ratepayers.

7. The Lincoln Agreement, as it is currently formulated, creates
significant benefits for Piedmont's customers.

Q. What is your recommendation?

A. Based on these conclusions, I recommend that the Commission accept the
Lincoln Agreement without modification.

Q. Does this conclude your testimony?

A. Yes, it does.

1 MR. JEFFRIES: And we would further move
2 that Mr. Sosnick's exhibit -- direct Exhibit KAS-1
3 be identified as marked.

4 CHAIR MITCHELL: Motion is allowed. The
5 exhibit to the witness' testimony shall be marked
6 for identification as was when prefiled.

7 (Confidential Exhibit KAS-1 was
8 identified as they were marked when
9 prefiled.)

10 Q. And, Mr. Sosnick, have you prepared a summary
11 of your testimony?

12 A. Yes, I did.

13 Q. All right. Thank you. Before you give that,
14 and --

15 MR. JEFFRIES: Madam Chair, I apologize,
16 I probably should have done this at the onset of
17 Mr. Sosnick's appearance. I want to make it clear
18 that Mr. Sosnick is testifying today in Docket 722
19 and his testimony is limited to the issues in that
20 docket.

21 Q. Could you please provide your summary for the
22 Commission?

23 CHAIR MITCHELL: Mr. Sosnick, please --
24 just one minute, please. Also, I'd like to note

1 for purposes of the record that portions of the
2 witness' testimony are confidential and must be
3 treated as such in the record, and ask counsel to
4 make sure that -- work with the court reporter to
5 ensure confidential treatment of those portions of
6 the witness' testimony.

7 All right. Mr. Sosnick, you may
8 proceed.

9 THE WITNESS: Thank you.

10 My name is Kenneth A. Sosnick. I'm the
11 managing director in the power and utilities
12 practice, FTI Consulting, Inc. On April 19, 2021,
13 Matthew DeCoursey, formerly of FTI, prefiled direct
14 testimony in consolidated Docket Numbers G-9, Sub
15 722 and the instant docket in support of the
16 Company's November 2018 agreement pertaining to the
17 Lincoln contract. Mr. DeCoursey has since left
18 FTI, and the Commission approved my substitution as
19 a witness on August 21, 2021.

20 In my prefiled direct testimony, I
21 specifically argued that this agreement, the
22 Lincoln agreement, between Piedmont and Duke Energy
23 for the construction of new facilities and the
24 delivery of natural gas by Piedmont to DEC's

1 Lincoln facility, aligns with industry best
2 practices for rate design, cost causation, and
3 recovery.

4 My prefiled direct testimony directly
5 addresses a recommendation made by Public Staff
6 that suggests Piedmont recover costs from building
7 and serving the incremental facilities through a
8 volumetric rate on top of the fixed charge
9 currently in the terms of the Lincoln agreement.
10 The purpose of this charge is to prevent cross
11 subsidization between customers, a tenet of rate
12 design by calculating the cost, mainly fixed,
13 specific to the incremental facility and recovering
14 them over time through a fixed fee solely charged
15 to DEC.

16 I reviewed the Company's cost of service
17 model and concluded that the cost to own and
18 operate incremental facilities were nearly all
19 fixed, aside from a small O&M expense that was
20 projected to rise steadily at 2 percent per year.
21 The fixed fee in the Lincoln agreement essentially
22 recovers a set sum through a set charge. Public
23 Staff's recommendation of adding a volumetric
24 charge to this fixed charge would instead recover a

1 set sum through a variable fee.

2 I conclude that the Lincoln agreement,
3 as filed, comports with industry best practices in
4 regard to rate design, cost causation, and
5 recovery. I argue that although the proposed
6 volumetric fee introduced to prevent between cross
7 subsidization between customers is not needed
8 because the incremental facilities are not
9 interconnected to the overall Piedmont system, and
10 therefore do not cause wear and tear to this
11 system, the agreement, as filed with its volumetric
12 rate being lower than Staff's, still meets Staff's
13 wishes, does not inflate DEC's rates inviably, and
14 provides benefits to Piedmont's overall customer
15 base through lower rates.

16 My final recommendation is to accept the
17 Lincoln agreement filed November 2018 without
18 modification.

19 Q. Thank you, Mr. Sosnick.

20 MR. JEFFRIES: Madam Chair, Mr. Sosnick
21 is available for cross examination and questions by
22 the Commission.

23 CHAIR MITCHELL: All right. Thank you,
24 Mr. Jeffries.

1 Ms. Culpepper?

2 MS. CULPEPPER: Public Staff has no
3 cross.

4 CHAIR MITCHELL: Okay. Questions for
5 the witness from Commissioners?

6 (No response.)

7 CHAIR MITCHELL: Any questions from
8 Commissioners?

9 (No response.)

10 CHAIR MITCHELL: Commission Brown-Bland,
11 I see you moving. Do you have questions? Are you
12 thinking about questions for this witness?

13 COMMISSIONER BROWN-BLAND: Yes. I'll
14 just put one out here.

15 EXAMINATION BY COMMISSIONER BROWN-BLAND:

16 Q. Mr. Sosnick, as I understand your testimony
17 and the position of the Company, all fixed -- all
18 relevant costs here are being recovered through a
19 contract. There are no -- from the Company's position,
20 there are no additional costs to be recovered; is that
21 correct?

22 A. That is correct. And I do want to point out
23 that there is an adder that is much less than the
24 Public Staff's recommendation that's included. So I

1 would say that all costs are being recovered through
2 the contract -- through the contract rate.

3 Q. All right. Thank you.

4 CHAIR MITCHELL: All right. Any
5 additional questions from Commissioners?

6 (No response.)

7 CHAIR MITCHELL: Okay. Hearing none,
8 let's take questions on Commissioner Brown-Bland's
9 question. I'll start with the intervenors.

10 MS. CULPEPPER: No questions.

11 CHAIR MITCHELL: Okay. Thank you,
12 Ms. Culpepper.

13 All right. Mr. Jeffries?

14 MR. JEFFRIES: No questions,
15 Chair Mitchell.

16 CHAIR MITCHELL: All right. All right,
17 Mr. Sosnick, there is nothing further for you, sir.
18 We appreciate your participation in the proceeding.
19 You may step down.

20 Mr. Jeffries, intent to recall him?

21 MR. JEFFRIES: No intent to recall
22 Mr. Sosnick.

23 CHAIR MITCHELL: So, Mr. Sosnick, you
24 are excused from the hearing today.

1 And I will take a motion, Mr. Jeffries.

2 MR. JEFFRIES: Thank you,
3 Chair Mitchell. We would move that Mr. Sosnick's
4 prefiled Exhibit KAS-1 be entered into evidence.

5 CHAIR MITCHELL: Hearing no objection to
6 that motion, it's allowed.

7 (Confidential Exhibit KAS-1 was admitted
8 into evidence.)

9 CHAIR MITCHELL: All right. Piedmont,
10 you may call your next witness.

11 MR. JEFFRIES: Piedmont calls
12 Bruce Barkley to the stand.

13 CHAIR MITCHELL: All right.
14 Mr. Barkley, good morning, sir. Would you raise
15 your right hand.

16 Whereupon,

17 BRUCE P. BARKLEY,
18 having first been duly affirmed, was examined
19 and testified as follows:

20 CHAIR MITCHELL: All right. Thank you.
21 All right, Mr. Jeffries.

22 MR. JEFFRIES: Thank you,
23 Chair Mitchell.

24 DIRECT EXAMINATION BY MR. JEFFRIES:

1 Q. Good morning, Mr. Barkley.

2 A. Good morning.

3 Q. Could you please state your name and business
4 address for the record, please.

5 A. Bruce Barkley. 4720 Piedmont Row Drive,
6 Charlotte, North Carolina.

7 Q. And where do you work, sir?

8 A. Piedmont Natural Gas.

9 Q. And what's your position at Piedmont?

10 A. Vice president of rates and gas supply.

11 Q. And your testimony today is in the Sub 722
12 docket; is that correct?

13 A. Yes.

14 Q. Okay. And you're the same Bruce Barkley that
15 prefiled direct testimony on April 19, 2021, in docket
16 G-9, Sub 722 consisting of 19 pages, and Exhibits BPB-1
17 and BPB-2; is that correct?

18 A. Yes. And I believe there was also a third
19 exhibit, Mr. Jeffries.

20 Q. I was thinking the same thing, but it's not
21 on my list. Let me just confirm that real quick. Yes,
22 you are correct.

23 You also prepared BPB-3 with your direct
24 testimony, correct?

1 A. Yes.

2 Q. And you also filed rebuttal testimony on
3 August 25, 2021, consisting of four pages; is that
4 correct?

5 A. Yes.

6 Q. All right. Do you have any corrections to
7 the prefiled testimony or exhibits?

8 A. No.

9 Q. All right. Mr. Barkley, if I asked you the
10 same questions that are set forth in your prefiled
11 direct and prefiled rebuttal testimony while you were
12 on the stand today, would your answers be the same?

13 A. Yes.

14 MR. JEFFRIES: Chair Mitchell, we would
15 ask that Mr. Barkley's prefiled direct and rebuttal
16 testimony be entered into the record as if given
17 orally from the stand.

18 CHAIR MITCHELL: All right. Hearing no
19 objection to the motion, the direct testimony filed
20 by Piedmont in the docket on April 19, 2021, shall
21 be copied into the record as if given orally from
22 the stand; the rebuttal testimony filed in the
23 docket on August 25, 2021, shall be copied into the
24 record as if given orally from the stand. I will

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note for the record, portions of the witness' direct testimony are confidential and should be identified as such in the record.

(Whereupon, the prefiled direct testimony and prefiled rebuttal testimony of Bruce P. Barkley was copied into the record as if given orally from the stand.)

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Sep 14 2021

**Before the
North Carolina Utilities Commission**

**Docket No. G-9, Sub 722
Docket No. G-9, Sub 781**

General Rate Case

**Direct Testimony and Exhibits
of
Bruce P. Barkley**

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

PUBLIC VERSION

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

2 A. My name is Bruce P. Barkley. My business address is 4720 Piedmont
3 Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Piedmont Natural Gas Company, Inc. (“Piedmont”
6 or “the Company”) as Vice President – Rates and Natural Gas Supply.

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

8 A. I obtained a Bachelor of Science Degree in Business Administration
9 with a concentration in Accounting from the University of North
10 Carolina at Chapel Hill and an MBA Degree from Wake Forest
11 University. From 1988 through 2001, I was employed by Public
12 Service Company of North Carolina, Inc., where I was responsible for
13 regulatory filings and reports submitted to the North Carolina Utilities
14 Commission (“NCUC” or “Commission”). Prior to joining Piedmont,
15 I held various positions with Progress Energy, Inc. and subsequently
16 Duke Energy Corporation (“Duke Energy”) in Regulatory Affairs,
17 Fuels, and Regulatory Accounting. I joined Piedmont in 2015 and
18 began serving in my current role in 2019.

19 **Q. Mr. Barkley, have you previously testified before this Commission
20 or any other regulatory authority?**

21 A. Yes. I have previously testified before this Commission and the Public
22 Service Commission of South Carolina on numerous occasions.

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

2 A. The purpose of my testimony is to support Piedmont's revised
3 Consolidated Natural Gas Construction and Redelivery Services
4 Agreement filed on November 16, 2018 in Docket No. G-9, Sub 722.

5 **Q. Are there any other witnesses providing testimony for Piedmont**
6 **on the issues raised in the Sub 722 Docket?**

7 A. Yes, Mr. Matthew DeCoursey, an expert on natural gas cost allocation
8 and rate design with FTI Consulting, is also filing testimony in this
9 docket in support of the Company's position.

10 **Q. Do you have any exhibits to your testimony?**

11 A. Yes. I have the following three exhibits:

12 Exhibit __ (BPB-1) June 26, 2020 Comments in G-9, Sub 722

13 Exhibit __ (BPB-2) Return Calculation for Lincoln Contract

14 Exhibit __ (BPB-3) Response to Commission Questions

15 **Q. Were the exhibits prepared by you or under your direction?**

16 A. Yes.

17 **Background**

18 **Q. Can you explain the context of the issues raised in Docket No. G-9,**
19 **Sub 722 that have now been consolidated with Piedmont's general**
20 **rate case proceeding in Docket No. G-9, Sub 781?**

21 A. Yes. On April 23, 2018, Piedmont filed a Consolidated Natural Gas
22 and Redelivery Services Agreement ("Consolidated Agreement")

1 between Piedmont and Duke Energy Carolinas, LLC (“DEC”) for
2 approval by the Commission. This Consolidated Agreement served
3 two purposes: (1) it updated the form of a long-standing service
4 agreement between Piedmont and DEC for service at Duke’s Lincoln
5 County turbine facility to Piedmont’s current form of agreement
6 (while preserving the rates underlying the service provided under the
7 long-standing agreement approved by the Commission in Docket No.
8 G-9, Sub 491); and (2) provided for an additional level of new service
9 to the Lincoln County facilities needed by DEC as a fuel source for
10 additional gas-fired turbine generation equipment being installed at the
11 Lincoln County facility.

12 Piedmont estimated that the new incremental facilities it would
13 need to construct to serve the additional load at the Lincoln County
14 plant would cost approximately [BEGIN CONFIDENTIAL] [REDACTED]
15 [END CONFIDENTIAL] million to construct and would consist of a
16 1,000-foot of new transmission main running from the existing
17 Piedmont transmission main to the new Lincoln County facilities, as
18 well as measuring and regulating station equipment. No other party
19 was intended to be served through these facilities. The Consolidated
20 Agreement reflected these terms and, in addition to the charges
21 provided for under the pre-existing service arrangement with DEC,
22 also provided for [BEGIN CONFIDENTIAL] [REDACTED]

1 locate elsewhere or to use an alternative fuel. Piedmont then [BEGIN

2 CONFIDENTIAL] [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED] [END

7 CONFIDENTIAL] Piedmont uses this approach consistently with

8 every new proposed large volume customer and does not vary the

9 model or the application of the model for affiliates or any other party.

10 The end result of this process is typically a proposed service

11 agreement filed with the Commission for approval as a special contract

12 if standard tariff rates are either insufficient or excessive. The

13 Company does not bill amounts that vary from its approved tariffs

14 until it receives authorization in the form of an order from the

15 Commission.

16 **Q. Did Piedmont utilize this approach in arriving at the terms of the**
17 **Consolidated Agreement with DEC in this case?**

18 A. Yes.

19 **Q. Did the application of the model to the incremental Duke Lincoln**
20 **facilities leave out any costs anticipated to be incurred by**
21 **Piedmont in providing incremental service to DEC?**

1 A. No, our model was inclusive of all costs we anticipated incurring in
2 order to serve DEC.

3 **Q. What happened after Piedmont filed the Consolidated Agreement**
4 **for approval by the Commission in this case?**

5 A. The Public Staff engaged in discovery on and reviewed the
6 Consolidated Agreement, following which they expressed some
7 concerns over the fact that, in their view, the Consolidated Agreement
8 did not provide adequate “system support” for Piedmont’s other
9 customers. They particularly focused on the idea that the Consolidated
10 Agreement should reflect some sort of volumetric surcharge in order to
11 provide system support.

12 **Q. Did the Public Staff provide a recommended methodology for**
13 **calculating such a system support charge?**

14 A. No. In our discussions with them regarding this subject they did not
15 provide a recommended formula or methodology for calculating a
16 usage-based system support surcharge.

17 **Q. What happened next?**

18 A. Based on our conversations with the Public Staff, we went back to
19 DEC and advised them that the Public Staff appeared to be unwilling
20 to support approval of the Consolidated Agreement [BEGIN
21 CONFIDENTIAL] [REDACTED]

22 [REDACTED]

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[REDACTED]

[REDACTED] [END CONFIDENTIAL]

Q. What was the basis for that amount?

A. No specific ratemaking method underlies the [BEGIN CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL] approach. There is no standard approach that the Commission has directed Piedmont to use for this purpose nor did Public Staff offer any input as to how the rate should be set. Instead, the [BEGIN CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL] is the result of a Piedmont’s determination of a commercially viable solution that was scalable (and repeatable) that would result in a meaningful contribution above Piedmont’s incremental costs, ultimately benefitting Piedmont’s other customers. DEC reluctantly agreed to the [BEGIN CONFIDENTIAL] [REDACTED] [END CONFIDENTIAL] and the revised Consolidated Agreement (“Revised Agreement”) was refiled with the Commission on November 16, 2018.

Q. What happened subsequent to the November 16, 2018 filings?

A. The Public Staff undertook discovery on the Revised Agreement but otherwise took no action to move the Revised Agreement forward for consideration by the Commission. Piedmont and the Public Staff periodically had discussions regarding the status of the Revised

1 Agreement, but no resolution was reached. For the most part, the
2 Public Staff continued to object to approval of the Revised Agreement
3 because, in their view, [BEGIN CONFIDENTIAL] [REDACTED]
4 [REDACTED] [END CONFIDENTIAL] When
5 Piedmont asked how the Public Staff would [BEGIN
6 CONFIDENTIAL] [REDACTED] [END
7 CONFIDENTIAL] that would provide adequate system support (in
8 their view), they had no suggestions. They also had no explanation as
9 to why a contract for incremental service to the new turbine generation
10 equipment at Lincoln, which did not rely on Piedmont's other system
11 assets in any way, should be assessed [BEGIN CONFIDENTIAL] [REDACTED]
12 [REDACTED] [END CONFIDENTIAL]

13 **Q. What other actions did Piedmont undertake while this matter**
14 **remained pending further action by the Public Staff?**

15 A. Because the amount of capital for this project was relatively small and
16 because DEC indicated that they needed gas service to test their new
17 gas turbine equipment in the near future, Piedmont proceeded with
18 construction of the new incremental facilities in late 2019 and on
19 January 10, 2020 filed a Request for Authorization to Commence
20 Service to DEC through the new incremental facilities. This service
21 was proposed to be provided on an interim basis subject to the
22 Commission's final disposition of the Revised Agreement in this

1 docket. On January 28, 2020, the Commission issued its Order
 2 Granting Interim Authority to Operate Under Second Revised
 3 Agreement and Requiring Public Staff Action. This order allowed
 4 Piedmont to commence service to DEC through the incremental
 5 facilities and required the Public Staff to file recommendations and its
 6 proposed order in the docket. After several extensions, the Public
 7 Staff filed its recommendations and proposed order on June 1, 2020.
 8 On June 26, 2020, Piedmont and DEC filed comments on the Public
 9 Staff's recommendations. Piedmont has continued to serve the
 10 Lincoln facility under the terms of Revised Agreement pursuant to
 11 Commission order issued in this docket on July 20, 2020.

Matters at Issue in This Proceeding

14 **Q. What recommendations did the Public Staff make in their June 1,
15 2020 filing?**

16 A. Based on their conclusion that the Revised Agreement was not in
17 compliance with the requirements of N.C.G.S 62-140 and 62-153, the
18 Public Staff recommended that Piedmont be ordered to [BEGIN

19 CONFIDENTIAL] [REDACTED]

20 [REDACTED]

21 [REDACTED] [END CONFIDENTIAL]

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Q. What is Piedmont’s position on the Public Staff’s recommendations?

A. We explained our opposition to the Public Staff’s position in some detail in comments filed in this docket on June 26, 2020 and I hereby adopt those comments, which are attached hereto as Exhibit __ (BPB-1). In short, we disagree with the Public Staff’s proposal on multiple grounds but primarily because it is not based on cost or on any other discernible formula or analysis and because the application of [BEGIN CONFIDENTIAL] [REDACTED] [REDACTED] [REDACTED]. [END CONFIDENTIAL] As I will explain further in my testimony, Piedmont objects to both [BEGIN CONFIDENTIAL] [REDACTED] [REDACTED] [REDACTED] [END CONFIDENTIAL] As we have stated previously in this docket, we do not oppose the idea of a system support surcharge associated with special contract arrangements that actually utilize portions of our pre-existing system to effectuate deliveries to a special contract customer. One very significant aspect of the Lincoln County service arrangement is that the facilities used to provide that service are 100% dedicated to serving the DEC Lincoln plant and do not serve any other customer. Piedmont does not rely on any other part of its transmission or distribution system to serve DEC at the Lincoln facilities.

1 determine the merits of those contracts. Piedmont also cannot
2 determine the underlying rate design philosophy upon which those
3 contracts were based – which means we cannot know if variable
4 charges were appropriate or to what degree, if any, the variable
5 charges under those agreements provide system support.

6 For example, Piedmont’s tariff rates and charges for Large
7 General Transportation Service are comprised of a fixed monthly
8 charge, a demand charge component and a usage charge component.
9 Together, these billing components are designed to recover the
10 Company’s share of revenue requirement allocated to Large General
11 Transportation customers as a class. The fact that some portion of this
12 revenue requirement is being collected volumetrically through usage
13 based rates, says nothing about the underlying “fairness” of the costs
14 allocated to these customers and certainly does not mean that they are
15 providing “system support” in excess of costs. In other words, the
16 form of revenue recovery (fixed versus volumetric) is not indicative of
17 whether costs are being under-recovered or over-recovered, being
18 subsidized or subsidizing others. Applying this logic to the other LDC
19 contracts that the Public Staff relies upon, the mere fact that they
20 contain a volumetric component does not mean those customers are
21 paying more than the cost to provide them with service – it just means
22 that the costs allocated to those customers (whatever they may be and

1 however calculated) are being recovered in both fixed and usage-based
2 rates.

3 **Q. Please explain why Piedmont is concerned by [BEGIN**
4 **CONFIDENTIAL]** [REDACTED]
5 [REDACTED]
6 [REDACTED]. **[END CONFIDENTIAL]**

7 **A.** Piedmont’s primary concern **[BEGIN CONFIDENTIAL]** [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]

11 **[END CONFIDENTIAL]** DEC would have decided either to not
12 construct this facility, locate it elsewhere or bring a complaint against
13 Piedmont before this Commission. If the project were not completed
14 within Piedmont’s service territory, its customers would have been
15 denied the benefits associated with the project. I will subsequently
16 explain and present those potentially forfeited customer benefits.
17 Piedmont continually seeks to resolve customer complaints from all
18 customer classes through collaboration and without the time
19 expenditure and cost associated with litigation such as this ongoing
20 dispute.

1 Q. Why, then, did Piedmont and DEC agree to [BEGIN
2 CONFIDENTIAL] [REDACTED] [END
3 CONFIDENTIAL]

4 A. We did so because both Piedmont and DEC wanted to be responsive to
5 Public Staff's concerns and because the charge was commercially
6 reasonable. As I explain above, the Public Staff refused to consider
7 supporting this contract [BEGIN CONFIDENTIAL] [REDACTED]
8 [REDACTED]
9 [REDACTED]
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16 [REDACTED]
17 [REDACTED] [END CONFIDENTIAL]

18 Q. Have you quantified these benefits based on the traditional inputs
19 into the ratemaking process as summarized in this proceeding on
20 Piedmont witness Bowman's Exhibit_(QPB-7)?

21 A. Yes, as shown on the attached Exhibit_(BPB-2) and summarized in
22 Table 1 below. This exhibit clearly demonstrates a return on equity

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(“ROE”) that [BEGIN CONFIDENTIAL] [REDACTED]
[REDACTED]
[REDACTED]. [END CONFIDENTIAL] These returns benefit all other
customers in general rate case proceedings over the life of the contract.
The base case is shown on Page 1 of this exhibit and includes revenues
without the [BEGIN CONFIDENTIAL] [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED] [END CONFIDENTIAL] Piedmont
does not believe the returns shown on Page 3 to be commercially
viable.

**Q. Please explain how Piedmont’s NPV based cost of service study for
DEC Lincoln yielded the results presented on page 1 of
Exhibit_(BPB-2).**

A. When Piedmont reviews a potential expansion project under its cost
model, it [BEGIN CONFIDENTIAL] [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

1 A. No. The Allocated Cost of Service Study prepared by Ms. Cynthia
2 Menhorn shows returns for power generation contracts that are lower
3 than Piedmont's overall test year return of 6.82%.

4 **Q. Can you explain the apparent discrepancy?**

5 A. Yes, Ms. Menhorn's Allocated Cost of Service Study results are
6 derived to determine how total revenues and costs are allocated to all
7 rate classes regardless of whether or not the classes will be allocated
8 any component of a requested rate increase. Specifically, for purposes
9 of our cost model we do a discrete project specific analysis of the
10 incremental costs needed to provide service as previously described
11 previously in my testimony. That model accurately analyzes the
12 contributions needed from the new customer to fully compensate
13 Piedmont for the costs of serving that specific customer. Ms. Menhorn
14 engages in an entirely different analysis. She allocates total North
15 Carolina rate base, expenses and revenues across all customer classes
16 and then uses the resulting return analysis to inform decisions about
17 how to allocate any revenue requirement increases across Piedmont's
18 rate classes. Significantly, this analysis was never intended to inform
19 the design of existing special contract rates because those rates are
20 fixed and will not change as a result of this rate case. Ms. Menhorn
21 could have excluded all rate base, expenses, and revenues associated
22 with fixed price contracts from her cost of service study. However,

1 such exclusion would have likely required multiple reconciliations
2 throughout this proceeding as totals per the cost of service study would
3 not have been in agreement with total North Carolina rate base,
4 expenses and revenues shown in the G-1 data request response and the
5 testimony and exhibits of Piedmont witness Bowman.

6 **Q. Have you also prepared responses to the Commission's specific**
7 **questions set forth in its order consolidating this proceeding with**
8 **Piedmont' general rate case proceeding?**

9 A. Yes. Piedmont's responses to the Commission's questions reflected in
10 its March 16, 2021 Order Consolidating Dockets And Requiring Filing
11 Of Testimony are attached hereto as Exhibit __ (BPB-3).

12 **Q. Do you believe the Revised Agreement to be in the public interest?**

13 A. Yes, I do.

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

15 A. Yes.

**Before the
North Carolina Utilities Commission**

Docket No. G-9, Sub 722

**Rebuttal Testimony
of
Bruce P. Barkley**

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

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

2 A. My name is Bruce P. Barkley. My business address is 4720 Piedmont
3 Row Drive, Charlotte, North Carolina.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Piedmont Natural Gas Company, Inc. (“Piedmont” or
6 the “Company”) as Vice President – Rates and Natural Gas Supply.

7 **Q. Have you previously testified in this proceeding?**

8 A. Yes. I previously submitted prefiled direct testimony in Docket No. G-9,
9 Sub 722 on April 19, 2021.

10 **Q. Have you reviewed the pre-filed direct testimony of North Carolina**
11 **Utilities Commission – Public Staff (“Public Staff”) witness Julie**
12 **Perry regarding the matters at issue in this docket?**

13 A. Yes, I have. That testimony relied heavily on prior filings by the Public
14 Staff in Docket No. G-9, Sub 722.

15 **Q. Does the Company have any response to the testimony of witness**
16 **Perry in this docket?**

17 A. No. The Company is satisfied that the issues addressed in the pre-filed
18 direct testimony of Public Staff witness Perry have been fully addressed
19 by Piedmont’s pre-filed testimony and related filings in this docket.

20 **Q. Does the Company have any response to the answers provided by the**
21 **Public Staff to the questions posed by the Commission at Exhibit A of**
22 **its order issued in this docket on March 16, 2021?**

- 1 A. Yes. The Commission's Public Staff Question 1.b. is as follows: "In the
2 absence of a volumetric rate, provide the calculations and the assumptions
3 used to calculate the subsidy that DEC's New Facilities would receive."
4 The Public Staff's response frames various subsidy scenarios in terms of
5 how the results differ from amounts calculated under Piedmont's Rate
6 Schedule 113, Large General Transportation Service.
- 7 **Q. Are variances from amounts that would have been billed under Rate**
8 **Schedule 113 legitimate subsidies provided by other customers to**
9 **DEC?**
- 10 A. No. I do not believe the Public Staff's response reflects a subsidy received
11 by DEC because the results are divorced from the realities of providing
12 natural gas transportation service to a special contract customer. Under
13 Rate Schedule 113, Piedmont's investment in the incremental facilities
14 would be repaid threefold every year during the life of the contract. That
15 scenario represents a huge subsidy being paid by DEC, not to DEC.
16 Further, DEC would not have agreed to such a pricing option and would
17 have located this incremental investment elsewhere. Piedmont's original
18 agreement with DEC included rates that recovered all incremental costs,
19 therefore, no subsidy existed. Due to the absence of any subsidy, none
20 could be provided to the Commission and the Public Staff simply
21 subtracted three different data points from the amount that would have
22 billed under Rate 113 in response to Question 1.b.

1 **Q. If there was no subsidy in the original agreement, why did Piedmont**
2 **and DEC subsequently execute a revised contract with a volumetric**
3 **adder?**

4 A. The parties sought to compromise with the Public Staff to avoid protracted
5 litigation, allowing the approval process by the Commission to move
6 forward in an efficient manner.

7 **Q. Does this conclude your rebuttal testimony?**

8 A. Yes, it does.

1 MR. JEFFRIES: Thank you,
2 Chair Mitchell. Piedmont would also ask that
3 Mr. Barkley's prefiled direct Exhibits BPB-1
4 through BPB-3 be identified as marked.

5 CHAIR MITCHELL: All right. The
6 exhibits to the witness' testimony shall be marked
7 for identification as they were when prefiled.

8 (Confidential Exhibits BPB-1 through
9 BPB-3 were identified as they were
10 marked when prefiled.)

11 MR. JEFFRIES: Thank you,
12 Chair Mitchell.

13 Q. Mr. Barkley, have you prepared a summary of
14 your prefiled direct and rebuttal testimony?

15 A. Yes.

16 Q. Could you provide that to the Commission,
17 please.

18 A. Yes.

19 My name is Bruce Barkley. I'm vice president
20 of rates and natural gas supply for Piedmont Natural
21 Gas Company. I prefiled direct testimony in
22 consolidated Dockets Number G-9, Sub 722, and the
23 instant Docket G-9, Sub 781 on April 19, 2021. I also
24 submitted prefiled rebuttal testimony on

1 August 25, 2021, in this proceeding. My prefiled
2 direct testimony supports Piedmont's revised
3 consolidated natural gas construction and redelivery
4 services agreement between itself and Duke Energy
5 Carolinas, LLC filed on November 16, 2018, in Docket
6 Number G-9, Sub 722.

7 The consolidated agreement serves two
8 purposes. It updates the form of a long-standing
9 agreement between Piedmont and DEC for service at DEC's
10 Lincoln County turbine facility to Piedmont's current
11 form agreement, and provides for an additional level of
12 new service to the Lincoln County facilities needed by
13 DEC as a fuel source for additional gas-fired turbine
14 generation equipment being installed at the Lincoln
15 County facility.

16 My direct testimony is supported by the
17 following three exhibits: Number 1, Piedmont's
18 June 26, 2020, comments, Docket Number G-9, Sub 722;
19 the return calculations for the Lincoln contract; and
20 Piedmont's responses to Commission questions.

21 I also prefiled rebuttal testimony to address
22 and respond to the answers provided to the -- by the
23 Public Staff to the questions posed by the Commission
24 in Exhibit A of its March 16, 2021, order consolidating

1 docket and requiring filing of testimony in the
2 instant docket. Specifically, I responded to the
3 Public Staff's answer to the Commission's Public Staff
4 question 1.b.

5 This concludes the summary of my prefiled and
6 rebuttal testimony.

7 Q. Thank you, Mr. Barkley.

8 MR. JEFFRIES: Chair Mitchell,
9 Mr. Barkley is available for cross examination and
10 questions by the Commissioner.

11 CHAIR MITCHELL: All right. We'll start
12 with the Public Staff.

13 MS. CULPEPPER: We have no questions.

14 CHAIR MITCHELL: All right. Attorney
15 General's Office?

16 MS. FORCE: No questions.

17 CHAIR MITCHELL: All right, Mr. Barkley.
18 Questions from the Commission. Start with
19 Commissioner Hughes.

20 COMMISSIONER HUGHES: Yes,
21 Chair Mitchell. I think most of the questions I
22 have will not cover confidential testimony,
23 although one question, the testimony -- there is a
24 footnote that is marked as confidential to the

1 testimony. So, you know, we can proceed and just
2 defer to Piedmont. I'm not sure how you want to
3 proceed.

4 CHAIR MITCHELL: Let's do this.

5 Commissioner Hughes, ask your questions.

6 Mr. Jeffries, pay close attention to the questions.

7 And, Mr. Barkley, if you-all feel that you're gonna

8 have to get into confidential information to

9 respond, then we will go into a confidential

10 setting. But for now, let's try proceeding in the

11 open hearing with your questions,

12 Commissioner Hughes.

13 COMMISSIONER HUGHES: Okay. Thank you.

14 EXAMINATION BY COMMISSIONER HUGHES:

15 Q. So I understand from your testimony, which is
16 not marked as confidential, that if the volumetric
17 charge in this special contract is implemented as
18 Public Staff would like, it will lead to an
19 over-earning, essentially, on the part of Piedmont.

20 So with that said, who will benefit from --
21 or who should benefit from that over-earning, the
22 ratepayers or shareholders?

23 A. As we move to the next rate case,
24 Commissioner Hughes, the next rate case after the

1 implementation of the item that you questioned, it
2 would be with ratepayers. Between cases, it would be
3 with shareholders, and it would serve perhaps the
4 function of delayed rate cases. But it can be -- it
5 can and will be provided to shareholders in the context
6 of general rate case, such as the one that we're in
7 today.

8 Q. Okay. That's clear. Thank you. If, on the
9 other hand, it's not -- you haven't testified to this,
10 but if you were under-earning the rate of a special
11 contract -- I asked this question to Ms. Powers as
12 well, but you can just chime in with your response --
13 if you were under-earning on this contract, should
14 other ratepayers subsidize the special contract
15 customer, or should shareholders absorb the revenue
16 shortfall? Just the reverse of the last question I
17 asked.

18 A. I think if there were ever a situation where
19 theoretically one of many contracts were under-earning
20 and the net over-earned, then that would be to the
21 benefit of customers. So I think I would look at the
22 overall impact of these special contracts. If we did
23 not recover these amounts for whatever reason -- and I
24 think, Commissioner Hughes, Ms. Powers shared with you

1 that the structure of these is fixed cost, so I think
2 that we addressed this risk.

3 These are Commission-approved contracts, so I
4 think that they would flow through rates regardless of
5 the direction, would be my recommendation, whether we
6 were over-earning or under-earning, but I believe that
7 we have covered the risk to our customers by
8 establishing fixed cost collection.

9 Q. Okay. Okay. That's helpful.

10 COMMISSIONER HUGHES: There is another
11 staff question that is marked as confidential,
12 Chair Mitchell. It involves an amount that I
13 believe is confidential. So I suppose, if we are
14 going to ask that question, we're going to need to
15 do it on the confidential line.

16 CHAIR MITCHELL: All right. Let's pause
17 here, Commissioner Hughes, with your questions.
18 I'll check in with other Commissioners to see if
19 they have questions for the witness that won't get
20 into confidential information. Please speak up now
21 if you have questions, Commissioners.

22 (No response.)

23 CHAIR MITCHELL: All right. I'm not
24 seeing any.

1 I do have one for you, Mr. Barkley. I
2 don't think you should have to get into
3 confidential information. I trust that if you do,
4 you can tell me, we can take care of it when we're
5 on the line.

6 EXAMINATION BY CHAIR MITCHELL:

7 Q. Mr. Barkley, help me understand the Public
8 Staff's concern here. What is the Public Staff
9 guarding against? Or what risk is the Public Staff
10 mitigating here with the position that it's taking?
11 And I recognize I'm asking you to speak for the Public
12 Staff, but that's what I'm asking you to do, and I
13 recognize what I'm asking you.

14 A. That is an interesting perspective,
15 Chair Mitchell. But I certainly have had conversations
16 with the Public Staff, and I reviewed the information
17 that they filed in this proceeding. My perspective of
18 their concern is that there would be a subsidy provided
19 to the special contract customer, who in this case is
20 DEC, by all the other ratepayers.

21 And so that is what they are trying to guard
22 against with the positions that they have taken.

23 Q. But can you elaborate, Mr. Barkley, a subsidy
24 in terms of -- just what is that subsidy?

1 A. Sure. I'll, again, certainly try. I think
2 that perhaps all of the costs that should be collected
3 in this contract are not being collected, and as I was
4 just speaking with Commissioner Hughes, if they're
5 not -- if this project is causing certain costs that
6 are not being collected from this counterparty, then
7 they're going to be socialized and collected from
8 everyone else.

9 So I would agree with the Public Staff, that
10 is not a situation we want. We do not want all of the
11 other rate sets to subsidize this counterparty. And
12 that's why we set up a cost-based analysis, so that all
13 costs are assigned to this customer. And it's even
14 cost plus, because I believe, again, without getting
15 into confidential, that our testimony, both mine and
16 Mr. Sosnick's indicates healthy returns.

17 So that indicates to me that not only are all
18 the other customers held harmless, which that's sort of
19 the first goal, is to hold them all harmless from
20 Piedmont's perspective, but they're actually
21 benefitting from this.

22 Q. Okay. Thank you, Mr. Barkley. Just one more
23 follow-up for you.

24 Has the Public Staff identified a specific

1 cost that this contract might impose on other customers
2 or on the system that other customers would have to
3 subsidize or absorb?

4 A. I do not believe they have, no.

5 Q. Okay. All right.

6 CHAIR MITCHELL: All right.

7 COMMISSIONER BROWN-BLAND:
8 Chair Mitchell?

9 CHAIR MITCHELL: Yes, ma'am, do you have
10 questions for the witness?

11 COMMISSIONER BROWN-BLAND: Yes.

12 CHAIR MITCHELL: Please proceed,
13 Commissioner Brown-Bland.

14 COMMISSIONER BROWN-BLAND: Sort of just
15 one, and I've hesitate to ask, because I'm
16 frustrated as I read the various items that are
17 marked confidential, whether we should even be
18 discussing. But it seems to me you just covered
19 what I wanted to ask about, so I'm going to go
20 anyway.

21 EXAMINATION BY COMMISSIONER BROWN-BLAND:

22 Q. So just the one follow-up to what
23 Chair Mitchell was asking, Mr. Barkley.

24 If there is an amount that's not being

1 recovered pursuant to the agreement, the special
2 contract that leaves the Company's ratepayers
3 vulnerable to have to pick up some addition, is
4 there -- and I know that it's not the Company's
5 position that there is anything that's been left out,
6 but if there were, is there any reason that that amount
7 could not be recovered by a fixed charge, some other
8 additional fixed charge? Is there some reason that it
9 must be, or it's better to be volumetric?

10 A. I believe fixed is the best way to guard
11 against the risk that we're discussing and that I
12 believe you're asking about, because the very nature of
13 a volumetric charge is such that you can't know how
14 much it's going to be, depending on many things, the
15 weather even perhaps being a prime example. So the
16 risk is best mitigated by collecting -- our costs are
17 fixed, so we now mitigate that risk by recommending a
18 fixed-cost structure in this and other special
19 contracts.

20 Q. And just generally speaking, in rate
21 recovery, an appropriately assessed fixed charge would
22 come closer to assured recovery of costs than trying to
23 collect fixed costs through volumetric charges; isn't
24 that right?

1 A. Yes.

2 COMMISSIONER BROWN-BLAND: All right.

3 No further questions.

4 CHAIR MITCHELL: All right. While we're
5 still in open session, I'm going to see if there
6 are questions on the Commissioner's questions?

7 (No response.)

8 CHAIR MITCHELL: Asked so far. I see
9 Mrs. Culpepper.

10 CROSS EXAMINATION BY MS. CULPEPPER:

11 Q. Mr. Barkley, Chair Mitchell asked you a
12 question you responded that you used a cost-based
13 analysis; is that correct?

14 A. I do believe I said that. And regardless, I
15 do believe this is, yes, cost based for this contract;
16 yes, ma'am.

17 Q. Have you provided that analysis to the Public
18 Staff?

19 A. Yes, ma'am.

20 Q. Can you tell me what it is? I mean, describe
21 how it was provided or the analysis.

22 A. Sure. It's a net present value analysis
23 based on cash flows. Both for this project and in many
24 projects, all special contracts that -- the support in

1 Excel sheets are provided to Public Staff accounting as
2 a routine matter of course. I think probably in
3 discovery, as soon as we file one of these, shortly
4 thereafter we receive discovery from Public Staff,
5 generally, on the accounting side, I believe, and we
6 provide the Excel sheets that support the rates that we
7 recommend for approval.

8 Q. Thank you.

9 MS. CULPEPPER: That's all I have.

10 CHAIR MITCHELL: Thank you,

11 Ms. Culpepper.

12 Any additional questions on the
13 Commissioners' questions?

14 MR. JEFFRIES: Chair Mitchel, I have one
15 for Mr. Barkley.

16 CHAIR MITCHELL: Okay.

17 REDIRECT EXAMINATION BY MR. JEFFRIES:

18 Q. Mr. Barkley, you recall a moment ago you were
19 having a discussion with Chair Mitchell where she had
20 asked you to try to express in your words what you
21 understood to be the Public Staff's concerns here, and
22 my recollection is that your testimony was to the
23 effect that you thought they were concerned about
24 subsidies from our general ratepayer base to the

1 special contract customers; is that consistent with
2 your recollection?

3 A. I do believe that was the gist of my
4 conversation and my response to the Chair; yes, sir.

5 Q. Yeah. And then you also mentioned that, you
6 know, it was this idea of cost shifting from ratepayers
7 to the special contract customers that was the Public
8 Staff's specific concern. And I just wanted to be
9 clear on the record, it's not your position that that
10 cost shifting is happening, correct?

11 A. Absolutely not. That is not my position. I
12 believe that, for this contract, there is no cost
13 shift. That our recovery from this counterparty is
14 very sufficient to protect all other customers.

15 Q. And is it your understanding that the
16 contract provides for an escalation for O&M expense
17 over time to guard against the possibility that there
18 are additional expenses incurred that weren't
19 anticipated?

20 A. Inflation is built in to the O&M assumption,
21 so yes is the answer to your question; yes, sir.

22 Q. And if there were to be a need for additional
23 capital expense, that would have to be the subject of a
24 new arrangement, correct?

1 A. Yes.

2 Q. Okay.

3 MR. JEFFRIES: That's all the questions
4 I have, Chair Mitchell.

5 CHAIR MITCHELL: All right. At this
6 time, we need to go -- I've got some additional
7 questions for the witness. We're going to have to
8 go into confidential session to get those
9 questions -- for me to ask those questions and for
10 the witness to respond to them. So what I would
11 ask of everyone now is to -- those parties that
12 have entered into confidentiality agreements with
13 the Company may join the line. I assume everyone
14 has been provided with a phone number.
15 Commissioners have the phone number and need to
16 join now as well. While we're in confidential
17 session, please turn off your camera and mute your
18 lines. All right. Thank you, everybody.

19 (Due to the proprietary nature of the
20 testimony found on pages 592 to 618, it
21 was filed under seal.)
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1 CHAIR MITCHELL: At this point, we are
2 no longer in confidential session, we are in open
3 session.

4 Any additional questions from the
5 Commissioners for this witness?

6 (No response.)

7 CHAIR MITCHELL: All right. I am
8 hearing none. So I believe at this point, there is
9 nothing further for this witness. I'm not hearing
10 anyone object or correct me there. So,
11 Mr. Barkley, you may step down, sir.

12 And, Mr. Jeffries, I understand that you
13 will not be recalling this witness; is that
14 correct?

15 MR. JEFFRIES: We will not be recalling
16 this witness to present testimony. He's already
17 presented his prefiled direct and rebuttal. But we
18 would like to reserve the right to recall
19 Mr. Barkley if something needs to be addressed on
20 rebuttal from further testimony to come in Sub 722.

21 CHAIR MITCHELL: All right. Well,
22 Mr. Barkley, then you may step down, but you are
23 not yet excused, sir.

24 All right. With that, it is 12:45. We

1 will --

2 MR. JEFFRIES: Chair Mitchell, may I
3 move his exhibits into evidence?

4 CHAIR MITCHELL: Absolutely. Please do.

5 MR. JEFFRIES: Chair Mitchell, Piedmont
6 would move that Mr. Barkley's direct prefiled
7 exhibits marked BPB-1 through BPB-3 be admitted
8 into evidence.

9 CHAIR MITCHELL: All right. Hearing no
10 objection to that motion, the exhibits attached to
11 the prefiled testimony of the witness will be
12 accepted into evidence.

13 (Confidential Exhibits BPB-1 through
14 BPB-3 were admitted into evidence.)

15 MR. JEFFRIES: And, Chair Mitchell, we
16 would also -- just a sort of recordkeeping matter,
17 we would move that the stipulation and accompanying
18 exhibits, which were filed in this proceeding on
19 September 7th, be entered into the record as well.

20 CHAIR MITCHELL: All right.
21 Mr. Jeffries, I'm not hearing -- let's see -- I'm
22 not hearing objection to your motion, so the
23 stipulation of partial settlement and exhibits
24 thereto between Piedmont and Public Staff, Carolina

1 Utility Customer Association Incorporated and
2 Carolina Industrial Group for Fair Utility Rates IV
3 will be accepted into evidence.

4 (Stipulation of Partial Settlement and
5 Exhibits were admitted into evidence.)

6 CHAIR MITCHELL: All right. At this
7 point we will break for lunch. It's 12:45. We
8 will go off the record now. We will be back on the
9 record at 2:00.

10 (The hearing was adjourned at 12:45 p.m.
11 and set to reconvene at 1:00 p.m. on
12 Thursday, September 9, 2021.)
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CERTIFICATE OF REPORTER

STATE OF NORTH CAROLINA)
COUNTY OF WAKE)

I, Joann Bunze, RPR, the officer before whom the foregoing hearing was taken, do hereby certify that the witnesses whose testimony appear in the foregoing hearing were duly sworn; that the testimony of said witnesses were taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this hearing was taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties thereto, nor financially or otherwise interested in the outcome of the action.

This the 13th day of September, 2021.



Joann Bunze

JOANN BUNZE, RPR

Notary Public #200707300112

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