

August 11, 2020

VIA Electronic Filing

Ms. Kimberley A. Campbell, Chief Clerk
North Carolina Utilities Commission
Dobbs Building
430 North Salisbury Street
Raleigh, North Carolina 27603

*Re: Application for Approval of Demand-Side Management and Energy
Efficiency Cost Recovery Rider Programs
Docket No. E-22, Sub 589*

Dear Ms. Campbell:

Pursuant to North Carolina General Statutes (“N.C.G.S.”) § 62-133.9 and Rule R8-69 of the Rules and Regulations of the North Carolina Utilities Commission (“Commission”), Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina (the “Company”), hereby files its Application for approval of cost recovery for the Company’s approved and proposed demand-side management and energy efficiency measures (“Application”).

Portions of the Application contain confidential information related to program or vendor costs, including Company Exhibit DRK-1, Schedule 5, Company Exhibit JEB-1, Schedules 1, 2, 3, 4, 5, 6, and 7, Company Exhibit EBL-1, Schedules 1 and 2, and Company Exhibit REM-1, Schedules 1 and 3. Information designated by the Company as confidential qualifies as “trade secrets” under N.C.G.S. § 66-152(3). Public disclosure of this information would allow access by external vendors to the projected or actual costs for services that will be or have been competitively bid, which may provide commercial value to such external vendors and may ultimately result in harm to ratepayers. Pursuant to N.C.G.S. § 132-1.2, the Company has redacted this confidential information from this public version of the Company’s Application and is contemporaneously filing these confidential pages under seal. The Company will make this information available to other interested parties pursuant to an appropriate nondisclosure agreement.

Kimberley A. Campbell, Chief Clerk
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Please do not hesitate to contact me if you have any questions. Thank you for your assistance in this matter.

Very truly yours,

/s/E. Brett Breitschwerdt

Enclosures

cc: John Little, Public Staff
Nadia Luhr, Public Staff
Dianna Downey, Public Staff



**Dominion
Energy®**

**Application of Virginia
Electric and Power
Company, d/b/a Dominion
Energy North Carolina,
Direct Testimony and
Exhibits**

**Before the North Carolina
Utilities Commission**

**In the Matter of
Application of Virginia Electric
and Power Company, d/b/a
Dominion Energy North Carolina,
for Authority to Adjust its Electric
Rates and Charges Pursuant to
N.C.G.S. § 62-133.9 and NCUC
Rule R8-69**

Docket No. E-22, Sub 589

Filed: August 11, 2020

PUBLIC VERSION

**Dominion Energy North Carolina
Application for Approval of Cost Recovery for Demand-Side
Management and Energy Efficiency Measures**

DOCKET NO. E-22, SUB 589

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**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-22, SUB 589

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of

Application of Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina, for Authority to Adjust its Electric Rates and Charges Pursuant to N.C.G.S. § 62-133.9 and Commission Rule R8-69)	APPLICATION FOR APPROVAL OF DEMAND-SIDE MANAGEMENT AND ENERGY EFFICIENCY COST RECOVERY RIDER
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Pursuant to North Carolina General Statutes (“N.C.G.S.”) § 62-133.9 and Rule R8-69 of the Rules and Regulations of the North Carolina Utilities Commission (“NCUC” or the “Commission”), Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina (“Dominion Energy North Carolina” or the “Company”), by counsel, hereby applies to the Commission to establish an updated rider to allow the Company to recover its reasonable and prudent demand-side management (“DSM”) and energy efficiency (“EE”) costs, net lost revenues, and Portfolio Performance Incentive (“PPI”) (the “Application”). In support thereof, the Company respectfully asserts as follows:

1. The Company is a public utility operating in the State of North Carolina as Dominion Energy North Carolina and is engaged in the business of generating, transmitting, distributing, and selling electric power and energy to the public for compensation. As such, the Company’s operations in the State are subject to the jurisdiction of the Commission. The Company is also a public utility under the Federal Power Act, and certain of its operations are subject to the jurisdiction of the Federal Energy Regulatory Commission (“FERC”). The Company is an operating subsidiary of

Dominion Energy, Inc. Dominion Energy North Carolina serves approximately 120,000 customers in North Carolina, with a service territory of about 2,600 square miles in northeastern North Carolina, including Roanoke Rapids, Albemarle, Ahoskie, Elizabeth City, and the Outer Banks. Dominion Energy North Carolina serves major industrial facilities, as well as commercial, governmental, and residential customers. The post office address of Dominion Energy North Carolina is P.O. Box 26666, Richmond, Virginia 23261.

2. The attorneys for the Company are

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Copies of all pleadings, testimony, orders, and correspondence in this proceeding should be served upon the attorneys listed above.

3. N.C.G.S. § 62-133.9(d) authorizes the Commission to approve an annual rider to the rates of electric public utilities to recover all reasonable and prudent costs incurred for the adoption and implementation of new demand-side management and

energy efficiency (collectively “DSM/EE”) measures (“DSM/EE Programs”), including, but not limited to, all capital costs, administrative costs, implementation costs, incentive payments to program participants, and operating costs. The annual rider shall recover the utility’s forecasted costs during the February 1, 2021, through January 31, 2022 rate period (“Rate Period”), and an experience modification factor (“EMF”) rider shall recover the difference between the utility’s actual reasonable and prudent costs incurred and actual revenues realized during the January 1, 2019, through December 31, 2019 test period (“Test Period”). The Commission is also authorized, pursuant to N.C.G.S. § 62.133.9(d)(2), to approve incentives to utilities for the adoption and implementation of new DSM/EE Programs.

4. Commission Rule R8-69(b) provides that the Commission will annually conduct a proceeding for each electric public utility to establish a DSM/EE rider to recover DSM/EE related costs. On October 14, 2011, the Commission issued an Order approving the Company’s proposed DSM/EE cost recovery rider, Rider C (“2010 Cost Recovery Order”).¹ The 2010 Cost Recovery Order also approved the Agreement and Stipulation of Settlement (“Stipulation”) agreed to between the Public Staff and the Company, as well as a cost recovery and incentive mechanism attached as Stipulation Exhibit 1 to the Stipulation. The Commission issued an Order on December 13, 2011, in the Company’s 2011 cost recovery proceeding approving an updated Rider C as well as an Addendum to the Stipulation, establishing a jurisdictional allocation methodology for

¹ *Order Approving Agreement and Stipulation of Settlement, Approving DSM/EE Rider, and Requiring Compliance Filing*, Docket No. E-22, Sub 464 (Oct. 14, 2011).

the allocation of DSM/EE Program costs between the Company's North Carolina and Virginia jurisdictions.²

5. On December 14, 2012, in the Company's 2012 cost recovery proceeding, the Commission again approved an updated Rider C along with the Company's initial EMF, Rider CE.³ On December 18, 2013, the Commission approved updated Riders C and CE, as well as a second Addendum to the Stipulation addressing assignment of costs for the Company's North Carolina-only Programs.⁴ On December 19, 2014, the Commission approved the Company's 2014 Rider C and Rider CE cost recovery requests, which were filed consistent with the initial Stipulation and Mechanism.⁵

6. On May 7, 2015, the Commission approved limited change to the cost recovery and incentive mechanism supported by the Company and the Public Staff, including utilization of a lagging calendar year test period.⁶ The Company subsequently filed its 2015 and 2016 Rider C and Rider CE cost recovery requests in accordance with the revised cost recovery and incentive mechanism, which were approved by the Commission in Docket Nos. E-22, Sub 524,⁷ and E-22, Sub 536,⁸ respectively.

7. On May 22, 2017, the Commission approved a revised cost recovery and incentive mechanism ("Mechanism"), addressing the manner in which the Company

² *Order Approving DSM/EE Rider and Requiring Customer Notice*, Docket No. E-22, Sub 473 (Dec. 13, 2011).

³ *Order Approving DSM/EE Rider and DSM/EE EMF Riders and Requiring Customer Notice*, Docket No. E-22, Sub 486 (Dec. 14, 2012).

⁴ *Order Approving DSM/EE and DSM/EE EMF Riders and Requiring Customer Notice*, Docket No. E-22, Sub 494 (Dec. 18, 2013).

⁵ *Order Approving DSM/EE and DSM/EE EMF Riders and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 513 (Dec. 19, 2014).

⁶ *Order Approving Revised Cost Recovery and Incentive Mechanism and Granting Waiver*, Docket No. E-22, Sub 464 (May 7, 2015).

⁷ *Order Approving DSM/EE and DSM/EE EMF Riders and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 524 (Dec. 14, 2015).

⁸ *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 536 (Dec. 19, 2016).

would develop its future Rule R8-69 applications for DSM/EE cost recovery.⁹ The Company has developed its 2017, 2018, and 2019 Rider C and Rider CE cost recovery applications in accordance with the revised Mechanism, which were approved by the Commission in Docket Nos. E-22, Sub 545,¹⁰ E-22, Sub 556,¹¹ and E-22, Sub 577,¹² respectively. The Company has also developed this Application in accordance with the provisions of the current Mechanism.

8. Pursuant to the provisions of N.C.G.S. § 62-133.9 and Commission Rule R8-69, the Company requests approval of an updated Rider C to recover its reasonable and prudent costs projected to be incurred for adoption and implementation of the Company's portfolio of DSM/EE Programs, including certain "Common Costs," which are projected costs for items such as program marketing and internal labor that are shared across the Company's DSM/EE Programs. The Company's portfolio of DSM/EE Programs for which Rate Period cost recovery is sought in this proceeding includes: (a) the previously approved Phase I DSM/EE program: Residential Air Conditioner Cycling Program;^{13,14} (b) the previously approved Phase III DSM/EE programs: Non-Residential Lighting Systems and Controls, Non-residential Heating and Cooling Efficiency, and Non-residential Window Film;¹⁵ (c) the previously approved Phase IV

⁹ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (May 22, 2017).

¹⁰ *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 545 (Dec. 21, 2017).

¹¹ *Order Approving DSM/EE Rider and Requiring Filing of Customer Notice*, Docket No. E-22, Sub 556 (Jan. 10, 2019).

¹² *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 577 (Jan. 17, 2020).

¹³ Docket No. E-22, Sub 465. All other Phase I programs except the Residential Air Conditioner Cycling Program have previously been concluded.

¹⁴ The Commission has approved closure of the Company's Phase II programs. *See Order on Motion to Close or Programs*, Docket No. E-22, Subs 495, 496, 497, 498, 499, and 500 (Nov. 29, 2016).

¹⁵ Docket No. E-22, Subs 507, 508, and 509. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 509 to close the Non-residential Window Film Program, and filed applications in Docket

Income and Age Qualifying Home Improvement Program;¹⁶ (d) the previously approved Phase V Non-Residential Small Business Improvement Program;¹⁷ (e) the previously approved NC-only Residential Retail LED Lighting Program;¹⁸ (f) the previously approved Phase VI Non-residential Prescriptive Program,¹⁹ and (g) the previously approved Phase VII Programs: Non-residential Heating and Cooling Efficiency, Non-residential Lighting Systems & Controls, Non-residential Window Film, Non-residential Office, Non-residential Small Manufacturing, Residential Appliance Recycling, Residential Home Energy Assessment, and Residential Efficient Products Marketplace.²⁰

9. Pursuant to N.C.G.S. § 62-133.9(d)(2) and Commission Rule R8-69(c), the Company also requests recovery of net lost revenues and a PPI for the adoption and implementation of the DSM/EE Programs. However, consistent with the Company's annual DSM/EE cost recovery applications, the Company has not projected net lost revenues for the Rate Period; instead, the Company intends to true up net lost revenues through its annual EMF in future proceedings. The Company is also requesting to true up its Test Period recovery of PPI and net lost revenues in accordance with the Mechanism.

Nos. E-22, Sub 507 and E-22, Sub 508 for Commission approval to transition the Non-residential Heating and Cooling Efficiency Program and the Non-residential Lighting Systems and Controls Program to be offered on a North Carolina-only basis. On October 16, 2018, the Commission granted the Company's request to close the Non-residential Window Film Program in Docket No. E-22, Sub 509, as well as the Company's request to offer the Non-residential Heating and Cooling Efficiency and Non-residential Lighting Systems and Controls Programs on a North Carolina-only basis in Docket No. E-22, Sub 507 and E-22, Sub 508, respectively. On November 13, 2019, the Commission authorized DENC to close the North Carolina-only Non-Residential Lighting Systems and Controls Program and the Non-Residential Heating and Cooling Efficiency Programs, as they were being replaced with system-wide programs providing similar measures. *See Order Approving Demand-Side Management and Energy Efficiency Programs*, Docket No. E-22, Subs 567 *et seq.* (Nov. 13, 2019).

¹⁶ Docket No. E-22, Sub 523.

¹⁷ Docket No. E-22, Sub 538.

¹⁸ Docket No. E-22, Sub 539. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 539 to close the Residential Retail LED Lighting Program, which the Commission granted by order dated October 16, 2018.

¹⁹ Docket No. E-22, Sub 543.

²⁰ Docket No. E-22, Subs 567, 568, 569, 570, 571, 572, 573, and 574.

10. Consistent with Paragraph 40 of the Mechanism, the Company has developed its revenue requirement using the capital structure and cost of capital as specified by the Company's Treasury Department for use in the Company's NCUC ES-1 Report for the period ending June 30, 2020, incorporating a cost of common equity of 9.75%, as approved in the Company's most recent general rate case on February 24, 2020, in Docket No. E-22, Sub 562.²¹

11. The Company's Application and pre-filed direct testimony are consistent with the terms and conditions of the Mechanism, as approved by the Commission. Updated Rider C and the EMF rider, Rider CE, are intended to allow the Company to recover \$3,034,822 of DSM/EE expenses and incentives during the Rate Period. This amount includes an under-collection of \$467,202 during the Test Period and \$2,567,620 for expenses and incentives projected to be incurred during the Rate Period.

12. Pursuant to N.C.G.S. § 62-133.9, the Company requests Commission approval of annual Rider C and CE billing adjustments as follows (all shown on a dollars per kWh basis):

²¹ See *Order Accepting Public Staff Stipulation in Part, Accepting CIGFUR Stipulation, Deciding Contested Issues, and Granting Partial Rate Increase*, Docket No. E-22, Sub 562 (Feb. 24, 2020).

<u>Customer Class</u>	<u>Rider C</u> DSM/EE Customer Class Rate (¢/kWh)	<u>Rider CE</u> DSM/EE EMF Customer Class Rate (¢/kWh)	<u>Total Riders C & CE</u> Customer Class Rate (¢/kWh)
Residential	0.0926 ¢/kWh	0.0125 ¢/kWh	0.1051 ¢/kWh
Small General Service & Public Authority	0.0960 ¢/kWh	0.0238 ¢/kWh	0.1198 ¢/kWh
Large General Service	0.0739 ¢/kWh	0.0183 ¢/kWh	0.0922 ¢/kWh
6VP	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh
NS	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh
Outdoor Lighting	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh
Traffic Lighting	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh

13. Consistent with the Company's 2019 DSM/EE cost recovery application, updated Rider C and Rider CE will be in effect for the 12-month period from February 1, 2021, through January 31, 2022, the proposed Rate Period.

14. Pursuant to Commission Rules R8-69(b) and R8-27, the Company requests approval to defer prudently incurred costs to FERC Account 182.3, "Other Regulatory Assets," until recovered. Pursuant to Commission Rule R8-69(b)(6), the Company requests approval to defer the difference between actual reasonable and prudently incurred incremental costs and the related revenues realized under rates in effect. The Company also requests approval as required under Commission Rule R8-69(b)(6) to defer any Common Costs, including any administrative, general, or other costs not directly related to new DSM/EE Programs. Finally, the Company requests approval to defer costs that the Company incurs in adopting and implementing new

DSM/EE measures up to six months prior to the Company filing for Commission approval of such measures in accordance with Commission Rule R8-68.

15. In support of the requested change in rates, the Company has attached hereto, as required by Commission Rule R8-69, the pre-filed direct testimony and exhibits of Michael T. Hubbard, Deanna R. Kesler, Jarvis E. Bates, Elizabeth B. Lecky, Robert E. Miller, and Casey R. Lawson.

WHEREFORE, Dominion Energy North Carolina respectfully requests that the Commission approve the changes to its rates as set forth in Paragraph eleven (11) above, finding them just and reasonable.

Respectfully submitted, this the 11th day of August, 2020.

DOMINION ENERGY NORTH CAROLINA

By: /s/E. Brett Breitschwerdt
Counsel for Virginia Electric and Power Company,
d/b/a Dominion Energy North Carolina

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**DIRECT TESTIMONY
OF
MICHAEL T. HUBBARD
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 589**

1 **Q. Please state your name, business address, and position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Michael T. Hubbard, and I am Manager-Energy Conservation for
5 the Company. My business address is 600 East Canal Street, Richmond,
6 Virginia 23219. A statement of my background and qualifications is attached
7 as Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for overseeing the Company’s Energy Conservation (“EC”)
10 department, which manages the Company’s demand-side management
11 (“DSM”) and energy efficiency (“EE”) programs (“DSM/EE Programs” or
12 “Programs”).

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

14 A. My testimony supports the Company’s request to recover all reasonable and
15 prudent costs incurred in adopting and implementing its authorized Phase I –
16 VII Programs, and North Carolina-only Residential Retail LED Lighting
17 Program, as well as utility incentives, through updated Rider C and the test
18 period experience modification factor (“EMF”) rider, Rider CE

1 (“Application”). The purpose of my testimony is to: (1) provide an update on
2 the status of the Company’s current DSM/EE Programs in North Carolina, as
3 well as the Company’s intent to bring a new Phase VIII portfolio of system-
4 wide Programs to North Carolina; and (2) present the Company’s cost
5 recovery request in this proceeding to the North Carolina Utilities
6 Commission (“Commission” or “NCUC”).

7 **I. UPDATE ON DSM/EE PROGRAMS**

8 **Q. Please provide a brief overview of the Company’s approved DSM/EE**
9 **Program Deployment in North Carolina.**

10 A. In February 2011, the Commission approved five DSM/EE Programs, which
11 the Company began offering to customers in the spring of 2011.¹ These
12 “Phase I” DSM/EE Programs included the Company’s:

- 13 • Residential Low Income Program;
- 14 • Residential Air Conditioner Cycling Program;
- 15 • Residential Lighting Program;
- 16 • Commercial HVAC Upgrade Program; and
- 17 • Commercial Lighting Program.

18 On December 31, 2011, the Company concluded the implementation phase of
19 its Residential Lighting Program. Further, the Company concluded its North

¹ Orders approving these Programs were issued on February 22, 2011, in Docket Nos. E-22, Sub 463 (Low Income Program), Sub 465 (Air Conditioner Cycling Program), Sub 467 (Commercial HVAC Upgrade Program), Sub 468 (Residential Lighting Program), and Sub 469 (Commercial Lighting Program).

1 Carolina-only Commercial Lighting Program and Commercial HVAC
2 Upgrade Program on December 31, 2014.²

3 In August 2013, the Company requested Commission approval to implement
4 the following “Phase II” DSM/EE Programs:

- 5 • Non-Residential Energy Audit Program;
- 6 • Non-Residential Duct Testing and Sealing Program;
- 7 • Residential Home Energy Check-Up Program;
- 8 • Residential Duct Sealing Program;
- 9 • Residential Heat Pump Tune-Up Program; and
- 10 • Residential Heat Pump Upgrade Program.

11 The Commission approved the six Phase II Programs in December 2013, and
12 the Company began accepting new customers in these Programs beginning on
13 January 1, 2014.³ On August 16, 2016, as amended on October 19, 2016, the
14 Company filed a Motion for Commission approval to close the Phase II
15 programs to new applications as of February 7, 2017, contemporaneous with
16 their closure to new participants in Virginia, with the exception of the
17 Residential Heat Pump Upgrade Program, which the Company asked to
18 suspend as of February 7, 2017. The Commission granted those requests by

² On December 16, 2013, the Commission also approved the Company’s request to transition the Phase I Commercial HVAC Upgrade Program (Docket No. E-22, Sub 467) and the Commercial Lighting Program (Docket No. E-22, Sub 469) from system-wide Programs to North Carolina-only Programs. By Order issued August 8, 2014, the Commission subsequently approved the Company’s request to close these North Carolina-only Programs as of December 31, 2014.

³ Orders approving these Programs were issued on December 16, 2013, in Docket Nos. E-22, Sub 495 (Non-Residential Energy Audit Program), Sub 496 (Non-Residential Duct Testing and Sealing Program), Sub 497 (Residential Duct Testing and Sealing Program), Sub 498 (Residential Home Energy Check Up Program), Sub 499 (Residential Heat Pump Tune Up Program), and Sub 500 (Residential Heat Pump Upgrade Program).

1 order issued on November 29, 2016.⁴ On July 28, 2017, the Company filed a
2 Motion to close the Residential Heat Pump Upgrade program, which the
3 Commission approved by order issued on September 5, 2017.⁵

4 In June 2014, the Company requested Commission approval to implement the
5 following “Phase III” DSM/EE Programs:

- 6 • Non-Residential Heating and Cooling Efficiency Program;
- 7 • Non-Residential Lighting Systems and Controls Program; and
- 8 • Non-Residential Window Film Program.

9 The Commission approved the three Phase III Programs in October 2014, and
10 the Company began accepting new customers in these Programs beginning on
11 January 1, 2015.⁶ On August 16, 2018, the Company filed a Motion to close
12 the Phase III Non-Residential Window Film Program to new participants as
13 of December 31, 2018,⁷ which the Commission granted by order dated
14 October 16, 2018.⁸ On August 16, 2018, the Company requested
15 Commission approval to transition the Phase III Non-Residential Heating and
16 Cooling Efficiency Program and the Non-Residential Lighting Systems and
17 Controls Program to be offered on a North Carolina-only basis.⁹ The

⁴ *Order on Motion to Close or Suspend Programs*, Docket Nos. E-22, Sub 495, Sub 496, Sub 497, Sub 498, Sub 499, and Sub 500 (Nov. 29, 2016).

⁵ *Order Cancelling Program*, Docket No. E-22, Sub 500 (Sept. 5, 2017).

⁶ Orders approving these Programs were issued on October 27, 2014, in Docket Nos. E-22, Sub 507 (Non-Residential Heating and Cooling Efficiency Program), Sub 508 (Non-Residential Lighting Systems and Controls Program), and Sub 509 (Non-Residential Window Film Program).

⁷ Motion to Close Non-Residential Window Film Program and North Carolina-Only Residential Retail LED Lighting Program, Docket Nos. E-22, Sub 509, Sub 539 (filed Aug. 16, 2018) (“Motion to Close Phase III Programs”).

⁸ *Order Canceling Program*, Docket No. E-22, Sub 509 (Oct. 16, 2018).

⁹ Application of Dominion Energy North Carolina for Approval of North Carolina-Only Non-Residential Heating and Cooling Efficiency Program, Docket No. E-22, Sub 507 (filed Aug. 16, 2018); Application of Dominion Energy North Carolina for Approval of North Carolina-Only Non-Residential Lighting Systems and Controls Program, Docket No. E-22, Sub 508 (filed Aug. 16, 2018).

1 Commission subsequently granted the Company’s request on October 16,
2 2018.¹⁰

3 In July 2015, the Company requested Commission approval to implement the
4 “Phase IV” Residential Income and Age Qualifying Home Improvement
5 (“RIAQHI”) Program. After Commission approval in October 2015, this new
6 Program opened to North Carolina customers on January 1, 2016.¹¹ The
7 “Phase IV” RIAQHI Program replaced the Phase I North Carolina-only Low
8 Income Program, which concluded on December 31, 2015.¹² On November
9 6, 2017, the Commission approved the Company’s request to suspend the
10 RIAQHI Program since the Program was set to expire in Virginia in early
11 2018.¹³ The Company stated that if the Virginia State Corporation
12 Commission (“VSCC”) granted an extension, it would file a request seeking
13 to reopen the RIAQHI Program in North Carolina in accordance with the
14 Program’s system-wide design. On May 31, 2018, the Company filed a
15 motion with the Commission to reopen the RIAQHI Program to customer
16 participation beginning July 1, 2018.¹⁴ On June 26, 2018, the Commission
17 approved reopening the RIAQHI Program.¹⁵

¹⁰ *Order Approving Program*, Docket No. E-22, Sub 507 (Oct. 16, 2018); *Order Approving Program*, Docket No. E-22, Sub 508 (Oct. 16, 2018).

¹¹ *Order Approving Program*, Docket No. E-22, Sub 523 (Oct. 6, 2015).

¹² *Order Granting Motion to Offer North Carolina-Only Low Income Program*, Docket No. E-22, Sub 463 (Sept. 9, 2014).

¹³ *Order Suspending Program*, Docket No. E-22, Sub 523 (Nov. 6, 2017).

¹⁴ *In the Matter of Application of Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina, for Approval of Residential Income and Age Qualifying Home Improvement Program*, Motion to Reopen Program, Docket No. E-22, Sub 523 (May 31, 2018).

¹⁵ *Order Approving Reopening Program*, Docket No. E-22, Sub 523 (June 26, 2018).

1 In July 2016, the Company requested Commission approval to implement the
2 “Phase V” Non-Residential Small Business Improvement Program. After
3 Commission approval in October 2016,¹⁶ the Company launched the Program
4 beginning on January 1, 2017.

5 In October 2016, the Company requested Commission approval to implement
6 an instant discount type of North Carolina-only Residential Retail LED
7 Lighting Program during 2017 and 2018. The Commission approved the
8 North Carolina-only Residential Retail LED Lighting Program in December
9 2016.¹⁷ On August 16, 2018, the Company filed a Motion to close the
10 Program effective with the end of the contemplated two-year duration,¹⁸
11 which the Commission approved by order issued October 16, 2018.¹⁹

12 In August 2017, the Company requested Commission approval to implement
13 the “Phase VI” Non-Residential Prescriptive Program. After Commission
14 approval in October 2017,²⁰ the Company launched the Program in North
15 Carolina beginning on January 1, 2018.

16 In July 2019, the Company requested Commission approval to implement the
17 following “Phase VII” DSM/EE Programs:

- 18 • Residential Appliance Recycling Program;²¹

¹⁶ *Order Approving Program*, Docket No. E-22, Sub 538 (Oct. 26, 2016).

¹⁷ *Order Approving Program*, Docket No. E-22, Sub 539 (Dec. 20, 2016).

¹⁸ See Motion to Close Phase III Programs, *supra* n. 7.

¹⁹ *Order Canceling Program*, Docket No. E-22, Sub 539 (Oct. 16, 2018).

²⁰ *Order Approving Program*, Docket No. E-22, Sub 543 (October 16, 2017).

²¹ Docket No. E-22, Sub 569.

- 1 • Residential Efficient Products Marketplace Program;²²
- 2 • Residential Home Energy Assessment Program;²³
- 3 • Non-Residential Small Manufacturing Program;²⁴
- 4 • Non-Residential Window Film Program;²⁵
- 5 • Non-Residential Heating and Cooling Efficiency Program;²⁶
- 6 • Non-Residential Lighting Systems and Controls program;²⁷ and
- 7 • Non-Residential Office.²⁸

8 The Commission approved the seven Phase VII Programs on November 13,
9 2019,²⁹ and the Company launched the Programs in North Carolina beginning
10 on January 1, 2020.

11 Three additional potential system-wide Phase VII Programs, the Residential
12 Customer Engagement Program and Residential Thermostat (EE) and (DR)
13 Programs, which had initially been approved in Virginia in May of 2019,
14 were not filed with the NCUC in July of 2019 for deployment in North
15 Carolina. Shortly after approval in Virginia, the Company determined that
16 additional program design clarifications were required and that the Programs
17 needed to be refiled with the VSCC as part of the Company's 2019 Virginia

²² Docket No. E-22, Sub 568.

²³ Docket No. E-22, Sub 567.

²⁴ Docket No. E-22, Sub 571.

²⁵ Docket No. E-22, Sub 570.

²⁶ Docket No. E-22, Sub 574.

²⁷ Docket No. E-22, Sub 573.

²⁸ Docket No. E-22, Sub 572.

²⁹ *Order Approving Programs*, Docket No. E-22, Subs 567-574 (November 13, 2019).

1 DSM filing. On July 30, 2020, the VSCC issued a final order³⁰ approving the
2 re-filed Residential Customer Engagement and Residential Thermostat (EE)
3 and (DR) Programs. The VSCC also approved the Company's planned Phase
4 VIII Programs, which I discuss further below. The Company plans to file the
5 Residential Thermostat (EE and DR) Programs later this year as new DSM
6 Phase VIII Programs for approval and deployment in North Carolina.
7 However, the Company is not planning to request approval to bring the
8 Residential Customer Engagement Program to North Carolina due to the
9 program's small size and cost considerations that would make it difficult to
10 administer in the Company's NC service territory.

11 **Q. Please provide a brief update on the Company's implementation of the**
12 **approved DSM/EE Programs in North Carolina.**

13 A. The approved DSM/EE Programs have been successful in North Carolina.
14 The Company launched the Phase I Residential Lighting Program in May
15 2011, and over 37,000 bulbs were sold through December 31, 2011, when the
16 Program was completed. Through the Low Income Program, the Company
17 has performed approximately 930 low income audits and repairs in North
18 Carolina during the period June 2011 through June 30, 2015. Through the Air
19 Conditioner Cycling Program, the Company began installing air conditioner

³⁰ *Petition of Virginia Electric and Power Company for approval to implement new demand-side management programs and for approval of two updated rate adjustment clauses pursuant to § 56-585.1 A 5 of the Code of Virginia*, Final Order Case No. PUR-2019-00201 (July 30, 2020) ("2018 Virginia DSM Order").

1 cycling devices in August 2011, and approximately 2,999 customers are
2 participating in the Program as of June 30, 2020.

3 The Phase II Programs launched in North Carolina in January 2014. Since
4 Program launch through suspension of the Phase II Programs in February
5 2017, approximately 5,294 units have been serviced as part of the Residential
6 Heat Pump Tune-Up Program and 1,349 units have been upgraded in North
7 Carolina to more efficient models as part of the Residential Heat Pump
8 Upgrade Program. The Residential Duct Sealing Program has resulted in
9 testing and repair of duct work associated with approximately 554 heat pump
10 units. Approximately 1,049 residential customers have received customized
11 energy audit reports and direct install measures as part of the Residential
12 Home Energy Check-Up Program.

13 Examples of direct install measures include installing compact fluorescent
14 light bulbs, faucet aerators, and door weather-stripping. The Non-Residential
15 Energy Audit Program has provided approximately 115 audits to North
16 Carolina customers since Program launch through Program closure in
17 February 2017. Of these 115 audits, 108 customers have installed approved
18 measures and obtained a rebate as part of the Program. The Non-Residential
19 Duct Testing & Sealing Program has had approximately 250 participants in
20 North Carolina since Program launch.

21 The Non-Residential Phase III Programs launched in North Carolina in
22 January 2015. Since Program launch through the closing of the Phase III

1 Programs in December 2019, 303 commercial and industrial customers have
2 participated in the Company's Phase III Programs in North Carolina.

3 The Phase IV RIAQHI Program launched in North Carolina in January 2016.
4 As of June 30, 2020, 434 North Carolina customers have participated in the
5 Company's Phase IV Program.

6 The Phase V Non-Residential Small Business Improvement Program became
7 available to qualifying customers in January 2017. As of June 30, 2020, 93
8 North Carolina customers have participated in the Company's Phase V
9 Program.

10 The Phase VI Non-Residential Prescriptive Program became available to
11 qualifying customers in January 2018. As of June 30, 2020, 72 North
12 Carolina customers have participated in the Company's Phase VI Program.

13 The Company's North Carolina-only Residential Retail LED Lighting
14 Program launched in 2017. Since Program launch through the closing of the
15 NC-only Program in December 2018, there were 82 active stores in North
16 Carolina that sold over 320,644 bulbs as part of the Residential Retail LED
17 Lighting Program.

18 The Company's Phase VII Programs were most recently launched on January
19 1, 2020. Since the launch of the Phase VII Programs, 121 North Carolina
20 customers have participated in the Phase VII Programs. The COVID-19
21 pandemic has slowed customer participation in the new Phase VII Programs

1 as well as the Company's other Programs in 2020; however, the Company
2 anticipates an increase in program participation as the program
3 implementation vendors continue to market the programs through the
4 appropriate channels in late 2020 and in future years. As of June 30, 2020,
5 the Company has 31 participating contractors delivering its portfolio of
6 DSM/EE Programs and measures to North Carolina customers.

7 **Q. Does the Company anticipate proposing additional Programs for**
8 **Commission approval and deployment in North Carolina later in 2020?**

9 A. Yes. As the Commission is aware, the Company's EC group develops the
10 Company's DSM/EE program portfolio to be deployed on a system-wide
11 basis and in "phases," with program approval first being sought in Virginia
12 and, if approved in Virginia, then sought in North Carolina where practical
13 and cost effective. In December 2019, the Company filed a number of new
14 "Phase VIII" programs for approval in Virginia, that, if approved, would be
15 brought to North Carolina for approval to deploy the programs on a system-
16 wide basis.³¹ These potential "Phase VIII" programs include the Residential
17 Thermostat (EE and DSM), Residential Electric Vehicle (EE and DSM),
18 Residential Electric Vehicle (Peak Shaving), Residential Energy Efficiency
19 Kits, Residential Home Retrofit, Residential Manufactured Housing,
20 Residential New Construction, Residential/Non-Residential Multi-family,
21 Non-Residential Midstream Energy Efficient Products, Non-Residential New

³¹ The Company's Phase VIII Programs are pending before the Virginia State Corporation Commission in VSCC Case No. PUR-2019-00201.

1 Construction, and Small Business Enhanced Programs. Notably, these
2 residential and non-residential programs are intended to provide qualifying
3 customers with a wide variety of energy saving options suited to their
4 residencies and facilities.

5 **Q. Has the VSCC approved the Phase VIII Programs for deployment in the**
6 **Company's Virginia jurisdiction?**

7 A. Yes. As I noted above, the VSCC issued an Order on the Company's
8 proposed DSM/EE Programs on July 30, 2020, and approved all proposed
9 Phase VIII Programs for deployment in Virginia. The Company anticipates
10 filing for Commission approval of the prospective Phase VIII Programs on or
11 before November 1, 2020, and requesting approval to open the Programs for
12 participation in North Carolina by mid 2021, pending Commission approval.
13 As I noted earlier, the Company also plans to seek approval to deploy the
14 Residential Thermostat (EE) and (DR) Programs in North Carolina, as well.

15 **Q. Is the Company planning to suspend or close any approved Programs**
16 **during upcoming Rate Year?**

17 A. Yes. The Company is authorized to continue offering the RIAQHI Program in
18 its Virginia jurisdiction through June of 2021. Recognizing that the Program
19 is currently designed and is being offered on a system-wide basis, the
20 Company anticipates requesting approval to suspend, and potentially to close,
21 the system-wide Program to North Customers contemporaneous with its
22 planned closure in Virginia.

1 **Q. Does the Company also have additional plans to evaluate future DSM**
2 **Programs?**

3 A. Yes. As a result of an ongoing stakeholder process, the EC group is currently
4 evaluating bids submitted in response to a request for proposals (“RFP”)
5 issued in Spring of 2020 for new DSM Program design ideas for development
6 into potential future system-wide Programs. The Company is currently
7 evaluating the results of the 2020 Program design RFP and anticipates seeking
8 approval by the VSCC for a number of new residential and non-residential
9 DSM/EE Program designs later this year, which, if approved in Virginia,
10 would then be brought to North Carolina to be offered on a system-wide basis.

11 **II. OVERVIEW OF APPLICATION**

12 **Q. What is the purpose of the Company’s Application in this proceeding?**

13 A. In this Application, the Company is filing its annual update and requesting
14 approval of an updated Rider C revenue requirement to be recovered during
15 February 1, 2021 through January 31, 2022, the proposed rate period (“Rate
16 Period”), as well as seeking true up of January 1, 2019 through December 31,
17 2019 (“Test Period”), costs through the Company’s EMF rider, Rider CE.

18 **Q. Please provide a brief overview of the Company’s approach to cost**
19 **recovery for its North Carolina DSM/EE Programs as set forth in this**
20 **Application.**

21 A. The costs of the Company’s approved DSM/EE Programs have been
22 recovered during each annual R8-69 cost recovery proceeding in accordance
23 with the Agreement and Stipulation of Settlement agreed to between the

1 Public Staff and the Company in the Company’s initial 2010 cost recovery
2 proceeding (“Stipulation”), as well as the Cost Recovery and Incentive
3 Mechanism attached as Stipulation Exhibit 1 to the Stipulation.³²

4 In the fall of 2014, in accordance with provisions of the original Stipulation,
5 the Commission undertook a review of the Stipulation and Cost Recovery and
6 Incentive Mechanism. On May 7, 2015, after receiving comments from the
7 Company and the Public Staff, the Commission approved a revised Cost
8 Recovery and Incentive Mechanism that governed cost recovery in the 2015
9 and 2016 annual proceedings.³³ The 2015 Mechanism Order also required the
10 Company and the Public Staff to file by March 1, 2017, as extended, an
11 updated performance incentive proposal for Commission review and
12 approval.

13 On April 20, 2017, the Company and the Public Staff filed a Joint Proposal
14 for New PPI, with a revised Mechanism attached as Appendix A (the
15 “Mechanism”). The Commission issued an Order approving the revised
16 Mechanism on May 22, 2017, which governs cost recovery for the instant
17 Application.³⁴ The revised Mechanism amends the PPI to a “portfolio
18 performance incentive” applicable to measures installed beginning with

³² *Order Approving Agreement and Stipulation of Settlement, Approving DSM/EE Rider, and Requiring Compliance Filing*, Docket No. E-22, Sub 464 (Oct. 14, 2011).

³³ *Order Approving Revised Cost Recovery and Incentive Mechanism and Granting Waiver*, Docket No. E-22, Sub 464 (May 7, 2015) (“2015 Mechanism Order”).

³⁴ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (May 22, 2017) (“2017 Mechanism Order”).

1 Vintage Year 2017. The Company has developed its Application and pre-
2 filed testimony in accordance with the procedures set forth in the Mechanism.

3 **Q. Have the Company and the Public Staff begun discussions regarding**
4 **completing a periodic review of the Mechanism?**

5 A. Yes. Initial discussions have occurred, consistent with the Commission's
6 2017 Mechanism Order. The Company anticipates continuing these
7 discussions later this year and finalizing any changes to the Mechanism prior
8 to filing DENC's next annual DSM/EE Rider in August of 2021.

9 **Q. Will the Company present other witnesses in this proceeding?**

10 A. Yes. Company Witness Deanna R. Kesler, Energy Market Consultant,
11 Demand-Side Planning, will provide certain information required by NCUC
12 Rule R8-69(f)(1)(ii)(a), (b), (d), and (e), as well as the Utility Cost Test
13 ("UCT"), and supporting documentation for the PPI Test Period and projected
14 Vintage Year calculations made pursuant to the Mechanism. Company
15 Witness Kesler will also present the Company's evaluation, measurement and
16 verification ("EM&V") cost projections and lost energy sales from EE
17 Programs during the EMF Test Period. Company Witness Jarvis E. Bates,
18 Energy Conservation Compliance Consultant, will support the projected
19 Calendar Year 2021 costs associated with the Company's DSM/EE Programs
20 to be recovered during the Rate Period, actual costs associated with the
21 Company's DSM/EE Programs during the Test Period, as well as provide
22 information on the Company's event sponsorship and consumer education
23 initiatives during the Test Period and customer opt-outs pursuant to

1 Commission Rule R8-69(d)(2). Company Witness Elizabeth B. Lecky,
2 Regulatory Specialist, will present the revenue requirements associated with
3 the DSM/EE Programs for Calendar Year 2021 to be recovered during the
4 Rate Period as well as the EMF revenue requirements associated with the
5 DSM/EE Programs to be recovered during the Rate Period. Company
6 Witness Robert E. Miller, Regulatory Specialist, will explain the proposed
7 assignment and allocation of costs to the North Carolina jurisdiction for the
8 DSM/EE Programs. Company Witness Casey R. Lawson, Regulatory Analyst
9 I, will present the calculation of the proposed updated Rider C and EMF
10 Rider CE.

11 **Q. Are the Company's North Carolina DSM/EE Programs consistent with**
12 **the Company's system-wide integrated resource plan ("Plan")?**

13 A. Yes. The Company has developed its Plan using a least cost modeling
14 methodology of reliable supply-side and demand-side options, pursuant to
15 North Carolina statutory and Commission policies. The Company's
16 operational and prospective Phase VIII DSM/EE Programs were included in
17 the 2020 biennial Integrated Resource Plan, as filed May 1, 2020, in Docket
18 No. E-100, Sub 165.

19 **Q. Please discuss the utility incentive the Company proposes for inclusion in**
20 **the DSM/EE Rider.**

21 A. The Company requests to recover a Rate Period PPI representing, as
22 introduced above, a projected portfolio performance incentive as approved in
23 the revised Mechanism. The Company also requests recovery of the Test

1 Period PPI for Vintage Year 2019 and prior years. The PPI for Vintage Years
2 2017-2019 has been calculated under the new portfolio performance incentive
3 approach, while the PPI for prior vintage years has been derived based upon
4 the traditional individualized program-based approach, and is being calculated
5 consistent with the 2015 Mechanism Order and the methodology approved by
6 the Commission in the Company's previous annual cost recovery proceedings.
7 Company Witness Bates supports calculation of a streamlined projected PPI,
8 as allowed in Paragraph 56 of the Mechanism, as well as the true up of the PPI
9 based upon actual installed measurement units during the vintage year 2019,
10 as required by Paragraph 60 of the Mechanism.

11 **Q. Has the Company projected Rate Period net lost revenues in the utility**
12 **incentives to be recovered during the Rate Period?**

13 A. Not at this time in this proceeding. Consistent with the approach taken in
14 recent cost recovery applications, the Company has not projected lost
15 revenues and proposes to include \$0 as the projected Rate Period net lost
16 revenue utility incentive for this proceeding.

17 The current Rider CE will true up the Company's recovery of net lost
18 revenues during the Test Period, as supported by Company Witness Lecky's
19 testimony.³⁵

³⁵ Should the Company's projection of net lost revenues again become significant, it could choose to request projected cost recovery in a future proceeding, as provided for in the Mechanism.

1 **Q. Has the Company identified any found revenues to offset its request to**
2 **recover net lost revenues?**

3 A. No. Consistent with Paragraph 47 of the Mechanism, the Company has
4 evaluated its North Carolina activities for potential found revenues using the
5 decision tree set forth in Attachment A of the Mechanism. Specifically, the
6 Company's EC, Rates, and Customer Solutions departments (which
7 collectively oversee Dominion Energy North Carolina's tariffs, Programs, and
8 utility-funded activities) evaluated the Company's North Carolina activities
9 during the Test Period to determine whether its activities may be causing
10 customers to increase demand or energy consumption, resulting in found
11 revenues. The Company's review of its North Carolina activities under the
12 decision tree has not identified any activities that resulted in found revenues
13 during the Test Period and has not identified any activities that would result in
14 projected found revenues during the Rate Period.

15 **III. OVERVIEW OF COST RECOVERY REQUEST**

16 **Q. Please summarize the components of updated Rider C and Rider CE and**
17 **resulting revenue requirements proposed to be recovered in this**
18 **proceeding.**

19 A. In accordance with Rule R8-69 and the Mechanism, updated Rider C will
20 recover the Company's North Carolina allocated share (including 100%
21 assigned cost of the North Carolina-only Programs) of the following
22 components during the Rate Period: (i) the Company's projected costs of
23 implementing the approved DSM/EE Programs during calendar year 2021;

1 (ii) the Company's projected Common Costs to be incurred during calendar
2 year 2021; and (iii) the Company's streamlined projected PPI. The
3 Company's updated Rider C revenue requirement for the Rate Period is
4 \$2,567,620, as further detailed in Schedule 1 of Company Witness Lecky's
5 testimony.

6 In accordance with Rule R8-69 and the Mechanism, the Company's EMF
7 Rider CE will true up and recover any under-recovery or refund any over-
8 recovery of the Company's North Carolina allocated share (including 100%
9 assigned cost of the North Carolina-only Programs) of the following
10 components: (i) the Company's Test Period costs of implementing the
11 approved DSM/EE Programs; (ii) the Company's Test Period Common Costs;
12 (iii) the Company's Test Period Net Lost Revenues; and (iv) the Company's
13 Test Period PPI. The Company's Rider CE revenue requirement for the Rate
14 Period is \$467,202, as further detailed in Schedule 2 of Company Witness
15 Lecky's testimony.

16 **Q. Does that conclude your prefiled direct testimony?**

17 **A.** Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
MICHAEL T. HUBBARD**

Michael T. Hubbard is Manager – Energy Conservation for Dominion Energy North Carolina. Since 2008, his responsibilities have included oversight of the design and implementation of new Demand Side Management programs, including vendor retention and oversight. In 2010, he served on the Virginia Governor’s Operational Review Taskforce to reduce costs and improve efficiencies for state government and also served on the board of the Richmond Region Energy Alliance, working with stakeholders on key energy efficiency issues. He is a certified Six Sigma Green Belt.

Mr. Hubbard joined Dominion Virginia Power in 1996 and has served in a number of regulatory and customer service-related leadership roles in the Delivery and Service Company organizations.

While in the position of Underground Damage Prevention Manager, he was appointed to serve on the State Corporation Commission of Virginia’s Advisory Committee for matters concerning the enforcement of the Virginia Underground Utility Line Damage Prevention Act, and also served on the board of directors that formed a new statewide Miss Utility call center.

Mr. Hubbard has a B.S. in History from Hampden-Sydney College and M.S.L.S. (Masters in Library Sciences) from the University of Kentucky, and is a member of the Phi Beta Kappa National Honor Society.

Mr. Hubbard has previously presented testimony before the North Carolina Utilities Commission and the State Corporation Commission of Virginia.

**DIRECT TESTIMONY
OF
DEANNA R. KESLER
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 589**

1 **Q. Please state your name, business address, and position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 **A.**My name is Deanna R. Kesler and I am an Energy Market Consultant in
5 Demand-Side Planning, which is part of the Company’s Integrated Strategic
6 Planning organization. My business address is 120 Tredegar Street,
7 Richmond, Virginia 23219. A statement of my background and qualifications
8 is attached as Appendix A.

9 **Q. Please describe your area of responsibility with the Company.**

10 **A.**I am responsible for the evaluation of Dominion Energy North Carolina’s
11 demand-side management (“DSM”) and energy efficiency (“EE”) programs
12 (“DSM/EE Programs” or “Programs”). This includes detailed analyses of
13 approved and proposed DSM/EE Programs and the incorporation of DSM and
14 EE measures into the Company’s integrated resource planning (“IRP”)
15 process and long-term integrated resource plan (the “Plan”). My
16 responsibilities also include planning, organizing, and coordinating
17 evaluation, measurement, and verification (“EM&V”) work for all DSM/EE
18 Programs through an independent third-party EM&V contractor, DNV GL.

1 This responsibility includes ensuring EM&V data is collected and made
2 available to DNV GL for review and analysis, reviewing EM&V processes
3 and reports, and coordinating all pertinent EM&V activities.

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

5 A. My testimony supports Dominion Energy North Carolina's request to recover
6 all reasonable and prudent costs incurred in adopting and implementing the
7 Company's portfolio of DSM/EE Programs as well as utility incentives,
8 through its updated Rider C, as well as the Company's experience
9 modification factor ("EMF") rider, Rider CE ("Application"). The purpose of
10 my testimony is to support the true up of lost revenues and the Company's
11 EM&V cost projections, as well as to provide certain information required by
12 North Carolina Utilities Commission ("NCUC" or "Commission") Rule
13 R8-69(f)(1)(ii)(a), (b), (d), and (e), with respect to the Company's DSM/EE
14 Programs. Regarding EM&V, my testimony will: (i) show the energy
15 savings for the previously-approved EE Programs over the EMF period
16 January 1, 2019, through December 31, 2019 ("Test Period"), for purposes of
17 calculating the Company's EMF; (ii) support the Company's EM&V costs
18 over the January 1, 2021, through December 31, 2021, calendar year
19 ("Calendar Year 2021") for the North Carolina jurisdiction, as well as the Test
20 Period; and (iii) provide information on Air Conditioner Cycling Program
21 activation events that occurred during the Test Period as required by Rule
22 R8-69(f)(1)(iii)(g). My testimony will also provide the Utility Cost Test
23 ("UCT") and supporting documentation for the Portfolio Performance

1 Incentive (“PPI”) calculations for the Test Period and the upcoming Calendar
2 Year 2021.

3 My testimony has been developed in accordance with the revised Cost
4 Recovery and Incentive Mechanism (“Mechanism”) approved by the
5 Commission on May 22, 2017, in Docket No. E-22, Sub 464.

6 **Q. Ms. Kesler, are you sponsoring any exhibits or schedules in connection**
7 **with your testimony?**

8 A. Yes. Company Exhibit DRK-1, consisting of Schedules 1-7 (Schedule 5
9 provided in public and confidential versions filed under seal), was prepared
10 under my supervision and is accurate and complete to the best of my
11 knowledge and belief. The Schedules I am sponsoring provide the following
12 information in support of the Company’s Application:

- 13 1. Schedule 1 of my pre-filed direct testimony provides the Company’s
14 total revenue requirement, avoided costs, and Calendar Year 2021
15 summer and winter peak and energy savings per unit measure for the
16 Company’s DSM/EE Programs, as required by Rule R8-69(f)(1)(ii)(a),
17 (b), (d), and (e) and calculated consistent with the Mechanism.
- 18 2. Schedule 2 provides a UCT calculation for each Program and the
19 portfolio of Programs for the projected Vintage Year 2021, as defined
20 in Paragraph 14 of the Mechanism.
- 21 3. Schedule 3 provides a comparison of the forecasted energy and
22 summer and winter capacity reductions for the Company’s ongoing

- 1 Phase I Air Conditioner Cycling Program and Phase IV, V, VI, and
2 VII DSM/EE Programs, as required by Rule R8-69(f)(1)(iii)(h).
- 3 4. Schedule 4 provides the cost-effectiveness test evaluations required by
4 Paragraph 41 of the Mechanism.
- 5 5. Schedule 5 provides the Company's actually-incurred EM&V costs
6 during the Test Period, as well as projected EM&V costs during the
7 Calendar Year 2021.
- 8 6. Schedule 6 supports the calculation of estimated energy savings for all
9 DSM/EE Phase III, IV, V, and VI programs, and the Residential Retail
10 LED Lighting Program, over the Test Period for the EMF Rider,
11 which is based on actual EM&V data collected and analyzed by DNV
12 GL.
- 13 7. Schedule 7 presents the date, weather conditions, event trigger,
14 customer enrollment and activation data, event duration, hour ending,
15 kW demand requested, and kW demand reductions observed for the
16 Air Conditioner Cycling Program during the Test Period.
- 17 **Q. Please explain the information you have provided in your Schedule 1.**
- 18 A. My Schedule 1 first presents the system-level revenue requirement per
19 appropriate capacity, energy, and measure unit metric, for each ongoing Phase
20 I,¹ Phase IV,² Phase V,³ Phase VI⁴, and Phase VII⁵ DSM/EE programs during

¹ The Company's ongoing Phase I DSM/EE Program is the Residential Air Conditioner Cycling Program (Docket No. E-22, Sub 465).

² The Company's Phase IV Program is the Income and Age Qualifying Home Improvement Program (Docket No. E-22, Sub 523).

1 the Rate Period. This table was developed using the revenue requirement
2 amounts requested for recovery during the upcoming Rate Period, as provided
3 in Company Witness Elizabeth Lecky's Schedule 1. Next, my Schedule 1
4 provides the system-level avoided costs per appropriate capacity, energy, and
5 measure unit metric, for each of the approved going-forward Phase I, Phase
6 IV, Phase V, Phase VI, and Phase VII Programs. The proposed jurisdictional
7 allocation factors, as required by Rule R8-69(f)(1)(ii)(b), are provided in
8 Company Witness Robert Miller's Schedule 4. Finally, my Schedule 1 shows
9 the total expected system-level energy and summer and winter capacity
10 reductions for each Program in the aggregate and per appropriate capacity,
11 energy, and measure unit metric for Calendar Year 2021. The per unit cost for
12 the Air Conditioning Cycling Program is based on summer demand
13 reductions.

14 **Q. By the terms of the Mechanism, how was the UCT developed in support**
15 **of the Calendar Year 2021 PPI calculation?**

16 A. The UCT used to support the calculation of the Calendar Year 2021 PPI for
17 each Vintage Year was developed in accordance with Paragraphs 13-14 of the
18 Mechanism. The Strategist model, a computer modeling and resource
19 optimization tool, was used to calculate a projected UCT based on the 2021
20 Vintage Year (as defined in Paragraph 14 of the Mechanism), using the base
21 case assumptions consistent with the Company's most recent 2020 Integrated

³ The Company's Phase V program is the Small Business Improvement Program (Docket No. E-22, Sub 538).

⁴ The Company's Phase VI program is the Non-residential Prescriptive Program (Docket No. E-22, Sub 543).

1 Resource Plan, as filed with the Commission on May 1, 2020, in Docket No.
2 E-100, Sub 165 (“2020 Plan”). Because the Company’s system for modeling
3 projected costs and benefits is based on the calendar year, in this proceeding
4 the Company is applying the projected costs for Calendar Year 2021 to the
5 proposed February 1, 2021 – January 31, 2022 Rate Period, which is
6 discussed in the direct testimony of Company Witnesses Michael T. Hubbard
7 and Lecky.

8 **Q. Please explain the role of the UCT Test in calculating PPI under the**
9 **Mechanism for Vintage Year 2021 for recovery during the Rate Period.**

10 A. The Commission approved the current Mechanism on May 22, 2017.⁵ In
11 accordance with Paragraph 53 of the Mechanism, the PPI shall be based on
12 the net dollar savings of the Company’s DSM/EE portfolio, as calculated
13 using the UCT. Pursuant to Paragraph 52 of the Mechanism, Low-Income
14 Programs or other programs explicitly approved with expected UCT results
15 less than 1.00 shall not be included in the portfolio for purposes of the PPI
16 calculation. However, for purposes of PPI determination, Low Income
17 Programs shall be included, as appropriate, in dispatch calculations to
18 determine avoided kW and kWh associated with Programs eligible for a PPI.

19 My Schedule 2 presents the 2021 Vintage Year UCT and TRC cost/benefit
20 portfolio scores, as well as the individual program scores pursuant to
21 Paragraphs 52-53 of the Mechanism.

⁵ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (May 22, 2017).

1 **Q. Please explain the information you have provided in your Schedule 3.**

2 A. My Schedule 3 presents forecasted energy and summer and winter capacity
3 reductions at the generator for the Company's ongoing Phase I, Phase IV,
4 Phase V, Phase VI, and Phase VII DSM/EE Programs during Calendar Year
5 2021. Specifically, Schedule 3 provides a comparison of the Phase I, Phase
6 IV, Phase V, Phase VI, and Phase VII Programs forecasted in the Company's
7 2020 Plan and the 2018 Plan. Generally, differences in the forecasted energy
8 and capacity reductions can be explained by differences in program modeling
9 assumptions, such as penetrations and load shapes. These differences arise in
10 part from data collected through the EM&V process, changes to
11 implementation schedules, and jurisdictional requirements.

12 **Q. Did the Company perform going-forward cost/benefit results for existing**
13 **Programs as required by Paragraph 41 of the Mechanism?**

14 A. Yes. Going-forward cost/benefit results were performed for the Phase I AC
15 Cycling Program, Phase IV, Phase V, and Phase VI Programs, and are
16 included in my Schedule 4.

17 **Q. What are the Company's objectives for EM&V?**

18 A. The objectives of the Company's EM&V are to provide an assessment of each
19 Program's progress toward its goals, including tracking actual cumulative
20 indicators over time versus the planning assumptions, such as the number of
21 participants, estimated energy (kWh) and demand (kW) savings, and Program
22 costs. EM&V tracking also provides average peak kW reduction per

1 participant, average kWh savings per participant, if appropriate, and average
2 incentive per participant for each Program.

3 **Q. Have you provided the Company's estimated EM&V cost for Calendar**
4 **Year 2021 and actual EM&V costs during the Test Period?**

5 A. Yes. My Schedule 5 provides the Company's projected EM&V costs during
6 Calendar Year 2021, as well as the Company's actual EM&V costs during the
7 Test Period for the North Carolina jurisdiction. The Company intends to
8 continue to file its annual EM&V Report with the Commission on May 15
9 each year.

10 **Q. Can you please describe the information provided in your Schedule 6?**

11 A. Yes. My Schedule 6 supports the calculation of estimated energy savings for
12 all DSM/EE Phases III, IV, V, and VI Programs, and the Residential Retail
13 LED Lighting Program, over the Test Period for the EMF Rider, which is
14 based on actual EM&V data collected and analyzed by DNV GL. The lost
15 sales (kWh) reflected in this schedule will be used by Company Witness
16 Lecky in the calculation of lost revenues in this proceeding.

17 **Q. Have you provided information on the Air Conditioner Cycling Program**
18 **activation events that occurred during the Test Period, as required by**
19 **Rule R8-69(f)(1)(iii)(g)?**

20 A. Yes. My Schedule 7 reflects event-based data for the Air Conditioner Cycling
21 Program during the Test Period, including the date, weather conditions, event

1 trigger, customer enrollment and switch activation data, event duration, hour
2 ending, kW demand requested, and kW demand reductions observed.

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

4 **A.** Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
DEANNA R. KESLER**

Ms. Kesler has held various positions with Dominion Virginia Power in the Power Operations Management Services, Generation and System Planning, Production Costing, Energy Efficiency, and Integrated Resource Planning areas. She originally joined Dominion Virginia Power in 1984 and returned in 2008. She has also had a variety of leadership roles prior to rejoining the Company both as a consultant and as an internal employee for several major corporations.

Ms. Kesler has a Masters in Business Administration from Virginia Commonwealth University. She also studied Business Administration at Virginia Commonwealth University and Chemical Engineering and Finance at Virginia Polytechnic Institute and State University.

Revenue Requirement per Appropriate Unit^{1 2}
Rule R8-69(f)(1)(ii)(a)

Program	Total Revenue Requirement (000s)	kW Reductions	MWh Reductions	DSM Cost per kW	EE Cost per MWh
Air Conditioner Cycling Program	8,070	45	N/A	\$ 180,484	N/A
Residential Income and Age Qualifying Home Improvement Program	2,291	1,904	9,549	N/A	\$ 240
Non-Residential Small Business Improvement Program	466	12,343	68,266	N/A	\$ 7
Non-Residential Prescriptive Program	6,262	775	15,379	N/A	\$ 407
Residential Appliance Recycling Program	1,868	641	10,180	N/A	\$ 184
Residential Efficient Products Marketplace Program	7,412	9,594	188,364	N/A	\$ 39
Residential Home Energy Assessment Program	4,972	(29,264)	19,007	N/A	\$ 262
Non-Residential Lighting Systems & Controls Program	2,302	2,213	17,625	N/A	\$ 131
Non-Residential Heating & Cooling Efficiency Program	1,960	8,873	13,666	N/A	\$ 143
Non-Residential Window Film Program	456	371	2,944	N/A	\$ 155
Non-Residential Small Manufacturing Program	1,293	2,675	5,207	N/A	\$ 248
Non-Residential Office Program	1,195	2,675	7,797	N/A	\$ 153

Note: 1) Exclusive of net lost revenues

Note: 2) Based on Individual Program Evaluation

Avoided Costs per Appropriate Unit
Rule R8-69(f)(1)(ii)(b)

Program	Total Avoided Costs (000s)	Capacity Reductions kW	Energy Reductions (MWh)	DSM Avoided Cost per kW	EE Avoided Cost per MWh
Air Conditioner Cycling Program	\$ 35	45	N/A	\$ 783	\$ -
Residential Income and Age Qualifying Home Improvement Program	\$ 463	1,904	9,549	\$ 243	\$ 49
Non-Residential Small Business Improvement Program	\$ 3,250	12,343	68,266	\$ 263	\$ 48
Non-Residential Prescriptive Program	\$ 607	775	15,379	\$ 783	\$ 39
Residential Appliance Recycling Program	\$ 386	641	10,180	\$ 603	\$ 38
Residential Efficient Products Marketplace Program	\$ 7,513	9,594	188,364	\$ 783	\$ 40
Residential Home Energy Assessment Program	\$ (3,048)	(29,264)	19,007	\$ 104	\$ (160)
Non-Residential Lighting Systems & Controls Program	\$ 758	2,213	17,625	\$ 343	\$ 43
Non-Residential Heating & Cooling Efficiency Program	\$ 1,024	8,873	13,666	\$ 115	\$ 75
Non-Residential Window Film Program	\$ 129	371	2,944	\$ 348	\$ 44
Non-Residential Small Manufacturing Program	\$ 239	2,675	5,207	\$ 90	\$ 46
Non-Residential Office Program	\$ 443	2,675	7,797	\$ 166	\$ 57

Note: Based on Individual Program Evaluation

2021 Summer/Winter Peak & Energy Savings (System-Level at the Meter)
Rule R8-69(f)(1)(ii)(d)(e)

Program	Winter MW Reductions (2021)	Summer MW Reductions (2021)	GWh Reductions (2021)
Air Conditioner Cycling Program	0.00	44.71	0.00
Residential Income and Age Qualifying Home Improvement Program	1.90	1.29	9.55
Non-Residential Small Business Improvement Program	12.34	11.91	68.27
Non-Residential Prescriptive Program	0.78	7.87	15.38
Residential Appliance Recycling Program	0.64	1.57	10.18
Residential Efficient Products Marketplace Program	9.59	7.33	188.36
Residential Home Energy Assessment Program	-29.26	3.97	19.01
Non-Residential Lighting Systems & Controls Program	2.21	3.59	17.62
Non-Residential Heating & Cooling Efficiency Program	8.873	2.98	13.67
Non-Residential Window Film Program	0.371	0.72	2.94
Non-Residential Small Manufacturing Program	2.675	1.10	5.21
Non-Residential Office Program	2.675	0.66	7.80

Note: Based on Individual Program Evaluation

Income and Age Qualifying Home Improvement UCT

Program Life 15.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 342	\$ 2,144	-\$1,802.49	0.16	0.16
2020	\$ -	\$ -	\$ -		
2021	\$ 12	\$ 2,291	-\$2,278		
2022	\$ 30	\$ -	\$ 30		
2023	\$ 29	\$ -	\$ 29		
2024	\$ 30	\$ -	\$ 30		
2025	\$ 28	\$ -	\$ 28		
2026	\$ 30	\$ -	\$ 30		
2027	\$ 30	\$ -	\$ 30		
2028	\$ 31	\$ -	\$ 31		
2029	\$ 31	\$ -	\$ 31		
2030	\$ 31	\$ -	\$ 31		
2031	\$ 34	\$ -	\$ 34		
2032	\$ 34	\$ -	\$ 34		
2033	\$ 35	\$ -	\$ 35		
2034	\$ 35	\$ -	\$ 35		
2035	\$ 35	\$ -	\$ 35		
2036	\$ 211	\$ -	\$ 211		

Note: Based on Individual Program Evaluation

Small Business Improvement Program UCT

Program Life 14.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 628	\$ 603	\$24.38	1.04	0.78
2020	\$ -	\$ -	\$ -		
2021	\$ 33	\$ 644	-\$611		
2022	\$ 73	\$ -	\$ 73		
2023	\$ 70	\$ -	\$ 70		
2024	\$ 72	\$ -	\$ 72		
2025	\$ 69	\$ -	\$ 69		
2026	\$ 74	\$ -	\$ 74		
2027	\$ 74	\$ -	\$ 74		
2028	\$ 55	\$ -	\$ 55		
2029	\$ 76	\$ -	\$ 76		
2030	\$ 77	\$ -	\$ 77		
2031	\$ 79	\$ -	\$ 79		
2032	\$ 81	\$ -	\$ 81		
2033	\$ 84	\$ -	\$ 84		
2034	\$ 82	\$ -	\$ 82		
2035	\$ 49	\$ -	\$ 49		

Note: Based on Individual Program Evaluation

Non-Residential Prescriptive Program UCT
Program Life 6.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 515	\$ 5,932	-\$5,417.62	0.09	0.06
2020	\$ -	\$ -	\$ -		
2021	\$ 62	\$ 6,337	-\$6,276		
2022	\$ 108	\$ -	\$ 108		
2023	\$ 112	\$ -	\$ 112		
2024	\$ 113	\$ -	\$ 113		
2025	\$ 101	\$ -	\$ 101		
2026	\$ 114	\$ -	\$ 114		
2027	\$ 55	\$ -	\$ 55		

Note: Based on Individual Program Evaluation

Residential Home Energy Assessment Program UCT
Program Life 12.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ (9,242)	\$ 4,671	-\$13,912.57	-1.98	0.05
2020	\$ -	\$ -	\$ -		
2021	\$ 109	\$ 4,990	-\$4,881		
2022	\$ (1,280)	\$ -	\$ (1,280)		
2023	\$ (1,063)	\$ -	\$ (1,063)		
2024	\$ (1,030)	\$ -	\$ (1,030)		
2025	\$ (989)	\$ -	\$ (989)		
2026	\$ (1,014)	\$ -	\$ (1,014)		
2027	\$ (1,108)	\$ -	\$ (1,108)		
2028	\$ (1,137)	\$ -	\$ (1,137)		
2029	\$ (1,553)	\$ -	\$ (1,553)		
2030	\$ (1,400)	\$ -	\$ (1,400)		
2031	\$ (1,539)	\$ -	\$ (1,539)		
2032	\$ (1,563)	\$ -	\$ (1,563)		
2033	\$ (1,814)	\$ -	\$ (1,814)		

Note: Based on Individual Program Evaluation

Residential Appliance Recycling Program UCT
Program Life 8.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 1,221	\$ 1,715	-\$494.69	0.71	0.83
2020	\$ -	\$ -	\$ -		
2021	\$ 111	\$ 1,832	-\$1,721		
2022	\$ 221	\$ -	\$ 221		
2023	\$ 216	\$ -	\$ 216		
2024	\$ 221	\$ -	\$ 221		
2025	\$ 205	\$ -	\$ 205		
2026	\$ 226	\$ -	\$ 226		
2027	\$ 227	\$ -	\$ 227		
2028	\$ 228	\$ -	\$ 228		

Note: Based on Individual Program Evaluation

Residential Efficient Products Marketplace Program UCT
Program Life 16.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ -	\$ 6,805	-\$6,805.30	0.00	-
2020	\$ -	\$ -	\$ -		
2021	\$ -	\$ 7,270	-\$7,270		
2022	\$ -	\$ -	\$ -		
2023	\$ -	\$ -	\$ -		
2024	\$ -	\$ -	\$ -		
2025	\$ -	\$ -	\$ -		
2026	\$ -	\$ -	\$ -		
2027	\$ -	\$ -	\$ -		
2028	\$ -	\$ -	\$ -		
2029	\$ -	\$ -	\$ -		
2030	\$ -	\$ -	\$ -		
2031	\$ -	\$ -	\$ -		
2032	\$ -	\$ -	\$ -		
2033	\$ -	\$ -	\$ -		
2034	\$ -	\$ -	\$ -		
2035	\$ -	\$ -	\$ -		
2036	\$ -	\$ -	\$ -		
2037	\$ -	\$ -	\$ -		

Note: Based on Individual Program Evaluation

Non-Residential Heating & Cooling Efficiency Program UCT
Program Life 15.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 11,284	\$ 1,809	\$9,474.79	6.24	2.67
2020	\$ -	\$ -	\$ -		
2021	\$ 200	\$ 1,933	-\$1,733		
2022	\$ 786	\$ -	\$ 786		
2023	\$ 771	\$ -	\$ 771		
2024	\$ 801	\$ -	\$ 801		
2025	\$ 786	\$ -	\$ 786		
2026	\$ 811	\$ -	\$ 811		
2027	\$ 819	\$ -	\$ 819		
2028	\$ 811	\$ -	\$ 811		
2029	\$ 804	\$ -	\$ 804		
2030	\$ 849	\$ -	\$ 849		
2031	\$ 878	\$ -	\$ 878		
2032	\$ 930	\$ -	\$ 930		
2033	\$ 925	\$ -	\$ 925		
2034	\$ 956	\$ -	\$ 956		
2035	\$ 946	\$ -	\$ 946		
2036	\$ 12,117	\$ -	\$ 12,117		

Note: Based on Individual Program Evaluation

Non-Residential Lighting Systems & Controls Program UCT
Program Life 11.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 2,267	\$ 2,106	\$161.72	1.08	0.84
2020	\$ -	\$ -	\$ -		
2021	\$ 145	\$ 2,250	-\$2,105		
2022	\$ 304	\$ -	\$ 304		
2023	\$ 296	\$ -	\$ 296		
2024	\$ 302	\$ -	\$ 302		
2025	\$ 297	\$ -	\$ 297		
2026	\$ 312	\$ -	\$ 312		
2027	\$ 314	\$ -	\$ 314		
2028	\$ 292	\$ -	\$ 292		
2029	\$ 321	\$ -	\$ 321		
2030	\$ 324	\$ -	\$ 324		
2031	\$ 340	\$ -	\$ 340		
2032	\$ 197	\$ -	\$ 197		

Note: Based on Individual Program Evaluation

Non-Residential Window Film Program UCT
Program Life 10.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 541	\$ 422	\$118.89	1.28	0.92
2020	\$ -	\$ -	\$ -		
2021	\$ 39	\$ 450	-\$412		
2022	\$ 79	\$ -	\$ 79		
2023	\$ 79	\$ -	\$ 79		
2024	\$ 81	\$ -	\$ 81		
2025	\$ 74	\$ -	\$ 74		
2026	\$ 77	\$ -	\$ 77		
2027	\$ 83	\$ -	\$ 83		
2028	\$ 60	\$ -	\$ 60		
2029	\$ 86	\$ -	\$ 86		
2030	\$ 87	\$ -	\$ 87		
2031	\$ 48	\$ -	\$ 48		

Note: Based on Individual Program Evaluation

Non-Residential Office Program UCT
Program Life 7.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 1,658	\$ 1,105	\$552.35	1.50	1.51
2020	\$ -	\$ -	\$ -		
2021	\$ 100	\$ 1,181	-\$1,080		
2022	\$ 321	\$ -	\$ 321		
2023	\$ 309	\$ -	\$ 309		
2024	\$ 318	\$ -	\$ 318		
2025	\$ 321	\$ -	\$ 321		
2026	\$ 327	\$ -	\$ 327		
2027	\$ 334	\$ -	\$ 334		
2028	\$ 211	\$ -	\$ 211		

Note: Based on Individual Program Evaluation

Non-Residential Small Manufacturing Program

Program Life 12.00

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage Year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 1,171	\$ 1,180	-\$9.47	0.99	0.86
2020	\$ -	\$ -	\$ -		
2021	\$ 68	\$ 1,261	-\$1,193		
2022	\$ 153	\$ -	\$ 153		
2023	\$ 146	\$ -	\$ 146		
2024	\$ 151	\$ -	\$ 151		
2025	\$ 155	\$ -	\$ 155		
2026	\$ 153	\$ -	\$ 153		
2027	\$ 159	\$ -	\$ 159		
2028	\$ 132	\$ -	\$ 132		
2029	\$ 159	\$ -	\$ 159		
2030	\$ 162	\$ -	\$ 162		
2031	\$ 165	\$ -	\$ 165		
2032	\$ 165	\$ -	\$ 165		
2033	\$ 47	\$ -	\$ 47		

Note: Based on Individual Program Evaluation

PORTFOLIO
Program Life 20

	2021 Pen. Benefits	2021 Pen. Costs		2021 Vintage year C/B Scores	
Year	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 9,269	\$ 28,496	-\$19,226.07	0.33	0.40
2020	\$ -	\$ -	\$ -		
2021	\$ 879	\$ 30,443	-\$29,564		
2022	\$ 1,303	\$ -	\$ 1,303		
2023	\$ 1,263	\$ -	\$ 1,263		
2024	\$ 1,334	\$ -	\$ 1,334		
2025	\$ 1,215	\$ -	\$ 1,215		
2026	\$ 1,366	\$ -	\$ 1,366		
2027	\$ 1,269	\$ -	\$ 1,269		
2028	\$ 1,039	\$ -	\$ 1,039		
2029	\$ 527	\$ -	\$ 527		
2030	\$ 749	\$ -	\$ 749		
2031	\$ 620	\$ -	\$ 620		
2032	\$ 548	\$ -	\$ 548		
2033	\$ 23	\$ -	\$ 23		
2034	\$ 1,072	\$ -	\$ 1,072		
2035	\$ 1,029	\$ -	\$ 1,029		
2036	\$ 12,327	\$ -	\$ 12,327		

2020 Integrated Resource Plan Forecasted Energy Savings (MWh) (System-Level at the Generator)

Programs	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Air Conditioner Cycling Program	0	0	0	0	0	0	0	0	0	0
Income and Age Qualifying Home Improvement Program	10,240	11,725	13,210	14,695	16,180	16,942	17,043	17,142	17,237	17,329
Small Business Improvement Program	72,728	84,085	85,739	87,433	89,165	90,216	90,659	91,094	91,517	91,929
Non-Residential Prescriptive Program	14,949	18,142	19,713	20,011	20,316	20,537	20,688	20,837	20,982	21,123
Residential Efficient Products Marketplace Program	128,674	205,013	290,431	383,696	430,667	435,634	440,548	445,355	449,977	454,442
Non-Residential Lighting Systems & Controls Program	14,217	24,407	31,857	39,307	42,880	43,275	43,666	44,051	44,425	44,790
Residential Appliance Recycling Program	7,221	13,263	19,304	25,346	28,216	28,535	28,851	28,915	29,456	29,743
Non-Residential Heating and Cooling Efficiency Program	9,095	18,245	27,395	36,546	41,366	41,747	42,124	42,497	42,858	43,211
Non-Residential Window Film Program	2,033	3,897	5,761	7,626	8,454	8,532	8,609	8,685	8,759	8,830
Residential Home Energy Assessment Program	9,326	21,478	35,892	49,014	55,565	56,206	56,840	57,461	58,058	58,634
Non-Residential Office Program	5,212	10,387	15,562	20,737	23,397	23,613	23,827	24,037	24,241	24,440
Non-Residential Small Manufacturing Program	3,521	6,896	10,270	13,645	15,262	15,402	15,542	15,679	15,812	15,941

2018 Integrated Resource Plan Forecasted Energy Savings (MWh) (System-Level at the Generator)

Programs	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Air Conditioner Cycling Program	0	0	0	0	0	0	0	0	0	0
Income and Age Qualifying Home Improvement Program	7,677	9,430	11,182	12,935	13,834	13,923	14,010	14,092	14,171	14,247
Small Business Improvement Program	33,401	52,153	61,749	63,212	64,147	64,653	65,149	65,628	66,091	66,541
Non-Residential Prescriptive Program	81,731	134,339	186,946	213,532	216,827	218,822	220,780	222,671	224,498	226,276

Difference in Forecasted Energy Savings (MWh) (System-Level at the Generator)

Programs	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Air Conditioner Cycling Program	0	0	0	0	0	0	0	0	0	0
Income and Age Qualifying Home Improvement Program	810	543	275	861	2,257	2,932	2,950	2,971	2,990	3,008
Small Business Improvement Program	20,575	22,337	22,527	23,285	24,513	25,067	25,031	25,003	24,976	24,946
Non-Residential Prescriptive Program	-119,390	-168,804	-193,818	-196,816	-198,506	-200,243	-201,983	-203,661	-205,294	-206,898
Residential Efficient Products Marketplace Program	128,674	205,013	290,431	383,696	430,667	435,634	440,548	445,355	449,977	454,442
Non-Residential Lighting Systems & Controls Program	14,217	24,407	31,857	39,307	42,880	43,275	43,666	44,051	44,425	44,790
Residential Appliance Recycling Program	7,221	13,263	19,304	25,346	28,216	28,535	28,851	28,915	29,456	29,743
Non-Residential Heating and Cooling Efficiency Program	9,095	18,245	27,395	36,546	41,366	41,747	42,124	42,497	42,858	43,211
Non-Residential Window Film Program	2,033	3,897	5,761	7,626	8,454	8,532	8,609	8,685	8,759	8,830
Residential Home Energy Assessment Program	9,326	21,478	35,892	49,014	55,565	56,206	56,840	57,461	58,058	58,634
Non-Residential Office Program	5,212	10,387	15,562	20,737	23,397	23,613	23,827	24,037	24,241	24,440
Non-Residential Small Manufacturing Program	3,521	6,896	10,270	13,645	15,262	15,402	15,542	15,679	15,812	15,941

2020 Integrated Resource Plan Forecasted Summer Coincident Capacity Savings (kW) (System-Level at the Generator)

Programs	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Air Conditioner Cycling Program	53,826	53,826	53,826	53,826	53,826	53,826	53,826	53,826	53,826	53,826
Income and Age Qualifying Home Improvement Program	983	1,121	1,259	1,397	1,535	1,598	1,608	1,617	1,626	1,634
Small Business Improvement Program	13,336	15,213	15,513	15,820	16,135	16,314	16,394	16,473	16,549	16,624
Non-Residential Prescriptive Program	5,899	7,152	7,742	7,859	7,979	8,064	8,123	8,182	8,238	8,294
Residential Efficient Products Marketplace Program	1,673	2,650	3,740	4,931	5,483	5,546	5,608	5,669	5,728	5,785
Non-Residential Lighting Systems & Controls Program	2,947	4,952	6,448	7,945	8,615	8,694	8,772	8,850	8,925	8,998
Residential Appliance Recycling Program	1,124	2,041	2,959	3,877	4,287	4,336	4,384	4,396	4,476	4,519
Non-Residential Heating and Cooling Efficiency Program	2,040	3,922	5,805	7,688	8,518	8,597	8,674	8,751	8,825	8,897
Non-Residential Window Film Program	496	949	1,402	1,855	2,054	2,073	2,092	2,111	2,128	2,146
Residential Home Energy Assessment Program	1,765	4,471	9,388	13,174	14,721	14,891	15,059	15,223	15,380	15,533
Non-Residential Office Program	454	874	1,294	1,713	1,898	1,916	1,933	1,950	1,966	1,983
Non-Residential Small Manufacturing Program	755	1,451	2,148	2,845	3,152	3,181	3,210	3,238	3,266	3,292

2018 Integrated Resource Plan Forecasted Coincident Capacity Savings (kW) (System-Level at the Generator)

Programs	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Air Conditioner Cycling Program	91,285	91,285	91,285	91,285	91,285	91,285	91,285	91,285	91,285	91,285
Income and Age Qualifying Home Improvement Program	1,538	1,883	2,229	2,574	2,728	2,746	2,763	2,779	2,795	2,810
Small Business Improvement Program	8,368	13,747	16,364	16,783	17,043	17,188	17,329	17,466	17,598	17,727
Non-Residential Prescriptive Program	12,524	20,390	28,256	31,956	32,433	32,731	33,023	33,306	33,579	33,844

Note: The 2020 Load Forecast Includes a Winter Peak, the 2018 Load Forecast Includes a Summer Peak. The differences reported here are based on the

Summer Peak values. Forecasted Coincident Capacity Savings Difference (kW) (System-Level at the Generator)

Programs	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Air Conditioner Cycling Program	-37,459	-37,459	-37,459	-37,459	-37,459	-37,459	-37,459	-37,459	-37,459	-37,459
Income and Age Qualifying Home Improvement Program	-900	-1,108	-1,315	-1,331	-1,211	-1,164	-1,171	-1,178	-1,184	-1,190
Small Business Improvement Program	-410	-1,151	-1,269	-1,223	-1,053	-1,016	-1,072	-1,126	-1,178	-1,230
Non-Residential Prescriptive Program	-14,491	-21,104	-24,215	-24,574	-24,752	-24,960	-25,183	-25,397	-25,606	-25,811
Residential Efficient Products Marketplace Program	1,673	2,650	3,740	4,931	5,483	5,546	5,608	5,669	5,728	5,785
Non-Residential Lighting Systems & Controls Program	2,947	4,952	6,448	7,945	8,615	8,694	8,772	8,850	8,925	8,998
Residential Appliance Recycling Program	1,124	2,041	2,959	3,877	4,287	4,336	4,384	4,396	4,476	4,519
Non-Residential Heating and Cooling Efficiency Program	2,040	3,922	5,805	7,688	8,518	8,597	8,674	8,751	8,825	8,897
Non-Residential Window Film Program	496	949	1,402	1,855	2,054	2,073	2,092	2,111	2,128	2,146
Residential Home Energy Assessment Program	1,765	4,471	9,388	13,174	14,721	14,891	15,059	15,223	15,380	15,533
Non-Residential Office Program	454	874	1,294	1,713	1,898	1,916	1,933	1,950	1,966	1,983
Non-Residential Small Manufacturing Program	755	1,451	2,148	2,845	3,152	3,181	3,210	3,238	3,266	3,292

Notes

- Difference in values are the 2020 Integrated Resource Plan Capacity Savings less the 2018 Integrated Resource Plan Update Capacity Savings

	Air Conditioner Cycling Program			
	Participant	Utility	TRC	RIM
Total NPV Benefits	\$ 14,038	\$ 328	\$ 328	\$ 331
Total NPV Costs	\$ -	\$ 24,337	\$ 9,869	\$ 24,337
Net Benefits NPV	\$ 14,038	\$ (24,009)	\$ (9,541)	\$ (24,006)
Benefit/Cost Ratio	N/A	0.01	0.03	0.01
	Income and Age Qualifying Home Improvement Program			
	Participant	Utility	TRC	RIM
Total NPV Benefits	\$ 10,458	\$ 4,175	\$ 4,175	\$ 4,175
Total NPV Costs	\$ -	\$ 7,167	\$ 7,167	\$ 18,178
Net Benefits NPV	\$ 10,458	\$ (2,993)	\$ (2,993)	\$ (14,004)
Benefit/Cost Ratio	N/A	0.58	0.58	0.23
	Small Business Improvement Program			
	Participant	Utility	TRC	RIM
Total NPV Benefits	\$ 98,427	\$ 64,740	\$ 64,740	\$ 64,740
Total NPV Costs	\$ 31,422	\$ 31,069	\$ 37,210	\$ 113,546
Net Benefits NPV	\$ 67,005	\$ 33,671	\$ 27,530	\$ (48,805)
Benefit/Cost Ratio	3.13	2.08	1.74	0.57
	Non-Residential Prescriptive Program			
	Participant	Utility	TRC	RIM
Total NPV Benefits	\$ 15,774	\$ 2,854	\$ 2,854	\$ 2,854
Total NPV Costs	\$ 14,622	\$ 14,028	\$ 18,517	\$ 19,852
Net Benefits NPV	\$ 1,152	\$ (11,174)	\$ (15,663)	\$ (16,998)
Benefit/Cost Ratio	1.08	0.20	0.15	0.14

Note: Based on Individual Program Evaluation

	PORTFOLIO			
	Participant	Utility	TRC	RIM
Total NPV Benefits	\$ 128,240	\$ 67,903	\$ 67,903	\$ 67,903
Total NPV Costs	\$ 46,044	\$ 69,477	\$ 65,638	\$ 157,774
Net Benefits NPV	\$ 82,195	\$ (1,574)	\$ 2,265	\$ (89,871)
Benefit/Cost Ratio	2.79	0.98	1.03	0.43

Dominion Energy North Carolina
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Company Exhibit DRK-1
Schedule 5
Page 1 of 1

DSM Program	Actual NC EM&V Costs During Rate Period (12 Months Ended Dec 2019)
Residential Air Conditioner Cycling	
Non Residential Heating & Cooling Efficiency	
Non Residential Lighting Systems & Controls	
Non Residential Solar Window Film	
Residential Income & Age Qualifying Home Improvement	
Residential Small Business Improvement Program	
Residential Retail LED Lighting Program (NC only)	
Non Residential Prescriptive Program	
DSM Program	Projected NC EM&V Costs During 2021
Residential Air Conditioner Cycling	
Residential Income and Age Qualifying	
Non Residential Small Business Improvement	
Non-Residential Prescriptive Program	
Residential Appliance Recycling	
Residential Efficient Products Marketplace	
Residential Home Energy Assessment	
Non Residential Lighting Systems & Controls	
Non Residential Heating & Cooling Efficiency	
Non Residential Window Film	
Non Residential Small Manufacturing	
Non Residential Office	

NC GENERAL RATE CASE; DOCKET E-22, SUB 479

				2019												2019 Total
Phase III EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2019 Percentage	1 Jan.	2 Feb.	3 Mar.	4 Apr.	5 May	6 Jun.	7 Jul.	8 Aug.	9 Sep.	10 Oct.	11 Nov.	12 Dec.	
Non-Residential Heating and Cooling Efficiency:																
	168	Schedule 5	51.2%	10,739	10,739	10,749	10,749	10,749	10,749	10,749	10,749	11,372	11,372	623	623	109,963
	170	Schedule 5P	0.1%	25	25	25	25	25	25	25	25	25	25	-	-	245
	183	Schedule 10 (Variable Pricing)	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	184	Schedule 30	28.6%	3,374	3,374	3,374	6,949	6,949	6,949	6,949	6,949	7,588	7,588	639	639	61,319
	188	Schedule 42	20.1%	4,318	4,318	4,318	4,318	4,318	4,318	4,318	4,318	4,318	4,318	-	-	43,184
Non-Residential Heating and Cooling Efficiency Sub-Total:			100.0%	18,456	18,456	18,466	22,041	22,041	22,041	22,041	22,041	23,303	23,303	1,262	1,262	214,711
Non-Residential Lighting Systems and Controls:																
	168	Schedule 5	43.1%	211,309	224,028	260,115	266,485	278,483	280,488	289,264	289,614	293,352	294,648	18,641	20,963	2,727,388
	169	Schedule 5C	0.2%	1,508	1,508	1,508	1,508	1,508	1,508	1,508	1,508	1,508	1,508	-	-	15,080
	170	Schedule 5P	19.1%	103,179	112,681	121,316	121,316	124,366	124,366	124,366	124,366	124,366	124,366	-	-	1,204,687
	176	Schedule 6P	19.5%	115,427	118,895	118,895	118,895	123,159	123,159	123,159	123,159	123,159	129,997	6,838	6,838	1,231,582
	183	Schedule 10 (Variable Pricing)	9.1%	53,271	53,271	53,271	53,271	53,271	53,271	60,914	60,914	60,914	60,914	7,643	7,643	578,570
	184	Schedule 30	2.4%	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	-	-	154,435
	188	Schedule 42	2.1%	11,669	11,669	11,669	11,669	11,669	15,260	15,260	15,260	15,260	15,260	-	-	134,645
	195	Schedule 26	4.4%	-	-	-	39,620	39,620	39,620	39,620	39,620	39,620	39,620	-	-	277,341
Non-Residential Lighting Systems and Controls Sub-Total:			100.0%	511,807	537,496	582,218	628,208	647,521	653,115	669,534	669,885	673,622	681,756	33,122	35,444	6,323,729
Non-Residential Window Film																
	168	Schedule 5	100.0%	301	301	301	301	301	301	301	301	301	301	-	-	3,011
Non-Residential Window Film Sub-Total:			100.0%	301	301	301	301	301	301	301	301	301	301	-	-	3,011
Total:				530,564	556,252	600,985	650,550	669,862	675,457	691,876	692,226	697,226	705,360	34,384	36,706	6,541,450

NC GENERAL RATE CASE; DOCKET E-22, SUB 479				2019												2019 Total
Phase IV EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2019 Percentage	1 Jan.	2 Feb.	3 Mar.	4 Apr.	5 May	6 Jun.	7 Jul.	8 Aug.	9 Sep.	10 Oct.	11 Nov.	12 Dec.	
Residential Income and Age Qualifying Home Improvement:																
	163	Schedule 1	99.5%	14,370	14,370	14,370	14,545	14,545	15,004	17,882	17,990	18,696	18,696	3,691	3,691	167,850
	168	Schedule 5	0.5%	89	89	89	89	89	89	89	89	89	89	-	-	895
Residential Income and Age Qualifying Home Improvement Sub-Total:			100.0%	14,460	14,460	14,460	14,634	14,634	15,094	17,972	18,079	18,785	18,785	3,691	3,691	168,745
Total:				14,460	14,460	14,460	14,634	14,634	15,094	17,972	18,079	18,785	18,785	3,691	3,691	168,745

NC GENERAL RATE CASE; DOCKET E-22, SUB 479				2019												2019 Total
Phase V EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2019 Percentage	1 Jan.	2 Feb.	3 Mar.	4 Apr.	5 May	6 Jun.	7 Jul.	8 Aug.	9 Sep.	10 Oct.	11 Nov.	12 Dec.	
Non-Residential Small Business Improvement																
	168	Schedule 5	100.0%	97,631	110,205	110,301	118,608	118,608	125,086	127,890	127,890	137,369	137,690	18,784	19,277	1,249,339
	170	Schedule 5P												-	-	
Non-Residential Small Business Improvement Sub-Total:			100.0%	97,631	110,205	110,301	118,608	118,608	125,086	127,890	127,890	137,369	137,690	18,784	19,277	1,249,339
Residential Retail LED:																
			100.0%	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	-	-	5,761,113
Residential Retail LED Sub-Total:			100.0%	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	-	-	5,761,113
Total:				673,742	686,317	686,412	694,719	694,719	701,197	704,002	704,002	713,480	713,802	18,784	19,277	7,010,452

NC GENERAL RATE CASE; DOCKET E-22, SUB 479				2019												2019 Total
Phase VI EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2019 Percentage	1 Jan.	2 Feb.	3 Mar.	4 Apr.	5 May	6 Jun.	7 Jul.	8 Aug.	9 Sep.	10 Oct.	11 Nov.	12 Dec.	
Non-Residential Prescriptive																
	168	Schedule 5	15.4%	1,965	3,414	4,589	4,989	5,021	5,021	5,021	5,021	5,021	5,138	177	177	45,554
	170	Schedule 5P	61.5%	15,774	16,960	18,603	18,603	18,603	18,603	18,603	18,603	18,603	18,928	325	325	182,532
	176	Schedule 6P	5.8%	-	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	-	-	17,289
	183	Schedule 10	17.3%	3,549	4,150	4,150	5,514	5,514	5,514	5,514	5,514	5,514	5,797	284	284	51,296
Non-Residential Prescriptive Sub-Total:			100.0%	21,288	26,445	29,263	31,026	31,059	31,059	31,059	31,059	31,059	31,784	785	785	296,671
Total:				21,288	26,445	29,263	31,026	31,059	31,059	31,059	31,059	31,059	31,784	785	785	296,671

Date	Weather Conditions °F	Event Trigger	Control Mode	Number of Customers Controlled	Number of Customers Enrolled
25-Jun-19	89	Peak Shaving	AC Units	76,665	81,165
26-Jun-19	93	Peak Shaving	AC Units	76,643	81,135
27-Jun-19	95	Peak Shaving	AC Units	76,596	81,101
28-Jun-19	92	Peak Shaving	AC Units	76,539	81,035
2-Jul-19	95	Peak Shaving	AC Units	76,460	80,947
3-Jul-19	97	Peak Shaving	AC Units	76,408	80,892
12-Jul-19	90	Peak Shaving	AC Units	76,225	80,653
16-Jul-19	93	Peak Shaving	AC Units	76,163	80,592
17-Jul-19	97	Peak Shaving	AC Units	76,110	80,546
18-Jul-19	95	Peak Shaving	AC Units	76,044	80,478
19-Jul-19	94	Peak Shaving	AC Units	75,971	80,401
22-Jul-19	97	Peak Shaving	AC Units	75,937	80,340
29-Jul-19	94	Peak Shaving	AC Units	75,880	80,235
30-Jul-19	94	Peak Shaving	AC Units	75,862	80,225
6-Aug-19	88	Peak Shaving	AC Units	75,814	80,164
8-Aug-19	92	Peak Shaving	AC Units	75,751	80,103
19-Aug-19	97	Peak Shaving	AC Units	75,651	79,956
20-Aug-19	95	Peak Shaving	AC Units	75,617	79,922
21-Aug-19	90	Peak Shaving	AC Units	75,586	79,875
22-Aug-19	95	Peak Shaving	AC Units	75,559	79,835
11-Sep-19	94	Peak Shaving	AC Units	75,378	79,520
12-Sep-19	97	Peak Shaving	AC Units	75,342	79,480
2-Oct-19	97	Peak Shaving	AC Units	75,180	79,119

1. The “Number of Customers Enrolled” is the count of active participants effective the day of the event, defined as gross participants enrolled in the program less deactivations and removals.
2. The “Number of Customers Controlled” further adjusts the “Number of Customers Enrolled” for specific event date opt-outs, participants not in the dispatch log.

Date	Event Duration (minutes)	Hour Ending	kW Demand Requested	kW Demand Reductions Observed
25-Jun-19	120	18:00	45,337	45,337
26-Jun-19	180	19:00	44,544	44,544
27-Jun-19	180	18:00	45,297	45,297
28-Jun-19	180	18:00	42,146	42,146
2-Jul-19	180	19:00	45,995	45,995
3-Jul-19	180	18:00	47,520	47,520
12-Jul-19	120	18:00	47,406	47,406
16-Jul-19	240	19:00	47,367	47,367
17-Jul-19	180	18:00	48,109	48,109
18-Jul-19	180	18:00	48,067	48,067
19-Jul-19	180	18:00	48,795	48,795
22-Jul-19	180	17:00	46,453	46,453
29-Jul-19	180	18:00	45,646	45,646
30-Jul-19	180	18:00	44,863	44,863
6-Aug-19	180	18:00	44,834	44,834
8-Aug-19	180	18:00	44,797	44,797
19-Aug-19	180	18:00	47,049	47,049
20-Aug-19	180	18:00	42,408	42,408
21-Aug-19	180	18:00	46,239	46,239
22-Aug-19	180	18:00	46,991	46,991
11-Sep-19	120	18:00	46,879	46,879
12-Sep-19	180	18:00	46,857	46,857
2-Oct-19	120	16:00	45,225	45,225

**DIRECT TESTIMONY
OF
JARVIS E. BATES
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 589**

1 **Q. Please state your name, business address, and position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 **A.** My name is Jarvis E. Bates, and my title is Energy Conservation Compliance
5 Consultant for Dominion Energy North Carolina. My business address is 600
6 East Canal Street, Richmond, Virginia 23219. My educational background
7 and experience are detailed in Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 **A.** I am responsible for cost and reporting compliance matters in the Company’s
10 Energy Conservation (“EC”) department including: (1) cost preparation and
11 cost oversight associated with the demand-side management (“DSM”) and
12 energy efficiency (“EE”) programs (“DSM/EE Programs” or “Programs”);
13 (2) cost compliance with DSM/EE Program related rider requirements; and
14 (3) EC Department internal and external regulatory and managerial cost
15 reporting.

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

17 **A.** My testimony supports the Company’s request to recover all reasonable and
18 prudent costs incurred in adopting and implementing the Company’s portfolio

1 of DSM/EE Programs and utility incentives, through its updated Rider C, as
2 well as the Company's experience modification factor ("EMF") rider, Rider
3 CE ("Application"). In my testimony, I provide cost projections, including
4 Common Costs, for the Company's DSM/EE Programs during January 1,
5 2021, through December 31, 2021, that have been used as a proxy for the
6 projected February 1, 2021, through January 31, 2022 rate period (the "Rate
7 Period") as well as actual costs incurred during the EMF period January 1,
8 2019, through December 31, 2019 ("Test Period"). My testimony also
9 presents the Portfolio Performance Incentive ("PPI") for each Program in
10 accordance with the revised Cost Recovery and Incentive Mechanism
11 ("Mechanism") approved by the Commission on May 22, 2017, in Docket No.
12 E-22, Sub 464. I also calculate the PPI EMF true up for vintage year 2019 in
13 accordance with the terms of the Mechanism. Additionally, my testimony
14 lists the commercial and industrial customers that have elected to "opt out" of
15 the Company's DSM/EE Programs as required by NCUC Rule R8-69(d)(2).

16 **Q. Mr. Bates, are you sponsoring any exhibits or schedules in connection**
17 **with your testimony?**

18 A. Yes. Company Exhibit JEB-1, consisting of Schedules 1-7 (with all schedules
19 provided in public and confidential versions filed under seal), was prepared
20 under my direction and supervision and is accurate and complete to the best of
21 my knowledge and belief. My Schedules 1-5 support the development of the
22 projected Rate Period revenue requirement: Schedule 1 provides summary
23 system-level Program and system-level Common Costs; Schedule 2 provides

1 details for system-level Program Costs; Schedule 3 provides details for
2 system-level Common Costs; Schedule 4 provides DSM Projected Program
3 Costs which are used by Company Witness Robert Miller for purposes of
4 allocating Common Costs; and Schedule 5 provides the streamlined
5 calculation of the Projected PPI for qualifying Programs. Schedule 6 provides
6 actual cost information in support of the PPI true up. Schedule 7 provides
7 actual cost information in support of the Test Period EMF revenue
8 requirement developed by Company Witness Elizabeth B. Lecky and includes
9 actual system-level Program and system-level Common Costs incurred during
10 the Test Period.

11 **Q. Please identify the Company's DSM/EE Programs for which cost**
12 **recovery is sought in this proceeding.**

13 A. The Company is seeking cost recovery for adopting and implementing:
14 (a) the previously approved Phase I DSM/EE program: Residential Air
15 Conditioner Cycling Program;^{1,2} (b) the previously approved Phase III
16 DSM/EE programs: Non-Residential Lighting Systems and Controls, Non-
17 residential Heating and Cooling Efficiency and Non-residential Window
18 Film;³ (c) the previously approved Phase IV Income and Age Qualifying

¹ Docket No. E-22, Sub 465. All other Phase I programs except the Residential Air Conditioner Cycling Program have previously been concluded.

² In 2016, the Commission approved closure of the Company's Phase II programs. *See Order on Motion to Close or Programs*, Docket No. E-22, Subs 495, 496, 497, 498, 499, and 500 (Nov. 29, 2016).

³ Docket No. E-22, Subs 507, 508, and 509. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 509 to close the Non-residential Window Film Program, and filed applications in Docket No. E-22, Subs 507 and 508 for Commission approval to transition the Non-residential Heating and Cooling Efficiency Program and the Non-residential Lighting Systems and Controls Program to be offered on a North Carolina-only basis. On October 16, 2018, the Commission granted

1 Home Improvement Program;⁴ (d) the previously approved Phase V Non-
2 Residential Small Business Improvement Program;⁵ (e) the previously
3 approved NC-only Residential Retail LED Lighting Program;⁶ (f) the
4 previously approved Phase VI Non-residential Prescriptive Program,⁷ and
5 (g) the previously approved Phase VII Programs: Non-residential Heating and
6 Cooling Efficiency, Non-residential Lighting Systems & Controls, Non-
7 residential Window Film, Non-residential Office, Non-residential Small
8 Manufacturing, Residential Appliance Recycling, Residential Home Energy
9 Assessment, and Residential Efficient Products Marketplace⁸.

10 **Q. Is the Company projecting costs to deploy the Phase IV Residential**
11 **Income and Age Qualifying Home Improvement (“RIAQHI”) Program**
12 **for the full Rate Period?**

13 A. No. As explained by Witness Hubbard, the State Corporation Commission of
14 Virginia approved deployment of the RIAQHI Program for a three year period
15 that extends through mid-2021; therefore, the Company is planning to close
16 the RIAQHI Program in Virginia in mid-2021 and to contemporaneously

the Company’s request to close the Non-residential Window Film Program in Docket No. E-22, Sub 509, as well as the Company’s request to offer the Non-residential Heating and Cooling Efficiency and Non-residential Lighting Systems and Controls Programs on a North Carolina-only basis in Docket Nos. E-22, Sub 507 and E-22, Sub 508, respectively. On November 13, 2019, the Commission’s Order approving the Phase VII Programs also authorized DENC to close the North Carolina-only Non-Residential Lighting Systems and Controls Program and the Non-Residential Heating and Cooling Efficiency Programs, as they were being replaced with system-wide programs providing similar measures.

⁴ Docket No. E-22, Sub 523.

⁵ Docket No. E-22, Sub 538.

⁶ Docket No. E-22, Sub 539. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 539 to close the Residential Retail LED Lighting Program, which the Commission granted by order dated October 16, 2018.

⁷ Docket No. E-22, Sub 543.

⁸ Docket No. E-22, Subs 567, 568, 569, 570, 571, 572, 573, 574.

1 suspend and potentially close the Program in North Carolina. Therefore, the
2 projected Rate Period costs include Program costs through mid-year as field
3 work concludes, and EM&V costs trailing for the remainder of the year. As
4 Mr. Hubbard explains, the Company also anticipates seeking approval of a
5 new program to replace the expiring Residential Income and Age Qualifying
6 Home Improvement Program, which, if approved in Virginia, would then be
7 brought to North Carolina.

8 **Q. What is the nature of the costs for the DSM/EE Programs?**

9 A. The costs are primarily categorized as direct “Program Costs” and indirect
10 “Common Costs.” These Program Costs and Common Costs are those solely
11 associated with the EC Department, which was assigned the responsibility to
12 separately identify and track DSM/EE costs related to the proposed Programs.
13 The projected Program Costs are those costs that are directly attributable to
14 individual Programs and primarily include costs based on signed vendor
15 contracts. Program Costs include design, implementation, marketing,
16 information technology hardware and software, call center, customer
17 incentives, equipment, startup costs, vendor margins, data collection and
18 reporting, promotional events, management and field operations, EM&V costs
19 and similar vendor and/or internal costs. The majority of these Program Costs
20 are based on contracts with the Company’s main Program vendors, Clearesult,
21 Comverge, Inc., Ecova, Honeywell, Nexant, and Recleim. The Company will
22 also incur certain indirect Common Costs that are part of implementation of
23 the DSM/EE Programs, which are not specifically associated with any

1 individual DSM Program. These costs include certain customer
2 communication costs, department labor costs, dues and association costs, and
3 external vendor costs. Company Witness Lecky further addresses deferral of
4 DSM/EE Program costs in her direct testimony.

5 **Q. How is the information that you provide related to projected Rate Period**
6 **Program and Common Costs used by the other witnesses in this**
7 **proceeding?**

8 A. The Company is seeking to recover reasonable and prudent costs that are
9 projected for implementation of the DSM/EE Programs during the Rate
10 Period. As discussed above, such costs include the Program Costs and
11 Common Costs. Schedule 1 of my pre-filed direct testimony shows both
12 Program Costs and Common Costs, at the system level, associated with
13 implementation of the Phase I, Phase IV, Phase V, Phase VI, and Phase VII
14 Programs for the Rate Period. Company Witness Lecky uses these costs to
15 develop the revenue requirement in support of this Application. Company
16 Witness Robert E. Miller then explains the assignment and allocation of these
17 costs to the North Carolina jurisdictional customers, using penetration and
18 participant percentages from my Schedule 4, which are provided pursuant to
19 NCUC Rule R8-9(f)(1)(ii)(a). Finally, Company Witness Casey R. Lawson
20 develops the DSM/EE Rider, Rider C, for recovery of the projected costs.

1 **Q. How is the information you provide in Schedules 6 and 7 related to actual**
2 **Test Period Program and Common Costs used by the other witnesses in**
3 **this proceeding?**

4 A. Through Rider CE, the Company is seeking to true up all DSM/EE Program
5 and Common Costs incurred during the Test Period with the revenues
6 received through Rider C during the Test Period. Company Witness Lecky
7 uses the actually incurred Test Period DSM/EE Program and Common Costs
8 set forth in my Schedules 6 and 7 to develop the EMF revenue requirement to
9 be recovered through Rider CE. Company Witness Miller then explains the
10 assignment and allocation of these costs to the North Carolina jurisdictional
11 customers. Finally, Company Witness Lawson calculates Rider CE to recover
12 these costs.

13 **Q. Please describe the PPI provisions in the Mechanism.**

14 A. The Mechanism has historically provided for a PPI based upon the
15 performance of each individual program, which would be eligible for an
16 incentive if the Program achieved a utility cost test (“UCT”) score above 1.0.
17 Through the revisions to the Mechanism agreed to between the Company and
18 the Public Staff and approved by the Commission on May 22, 2017, the
19 Mechanism now provides for a “portfolio performance incentive” applicable
20 to measures installed beginning with vintage year 2017. Paragraphs 49 – 61
21 of the Mechanism govern calculation and recovery of the PPI.

1 **Q. Please describe Schedule 5 of your pre-filed direct testimony, which**
2 **calculates the projected PPI to be recovered during the Rate Period**
3 **consistent with the Mechanism.**

4 A. My Schedule 5 calculates the projected PPI to be recovered during the Rate
5 Period in a manner consistent with Paragraphs 49-61 of the revised
6 Mechanism, and consistent with the Company's approach approved in the
7 2017 cost recovery proceeding, Docket No. E-22, Sub 545. Specifically, my
8 Schedule 5 utilizes two PPI components.

9 First, PPI "actual" results from pertinent vintage years (2016 and prior) were
10 calculated using the methodology identical to past DSM/EE cases. Starting
11 with the 2017 vintage year, PPI "actual" results are calculated using the new
12 portfolio methodology.

13 Second, Projected PPI "estimates" for vintage year 2021, and for vintage year
14 2020, are calculated in accordance with Paragraph 55(b) of the Mechanism.

15 **Q. Please explain the Company's approach for calculating the projected**
16 **Rate Period PPI.**

17 A. Paragraph 55(b) of the Mechanism provides that the Company may utilize a
18 reasonable, simplified approach to estimated net dollar savings associated
19 with measurement units installed in future vintage years for purposes of
20 projecting the PPI to be recovered during the Rate Period. The Company's
21 approach for producing the projected PPI relies on the two components of the
22 calculation. For the first component, the Company uses the data supporting its

1 PPI calculation in the prior year's DSM cost recovery proceeding to isolate
2 the "actual" PPI dollar amount for the prior vintage year and then continues to
3 use that amount in this current case as the first component of the projected PPI
4 total revenue requirement. Consistent with the Company's approach in the
5 2019 DSM/EE cost recovery proceeding, the second component of the PPI
6 estimate is calculated using the current case's operating expense revenue
7 requirement times 1% to produce a dollar amount for "estimated" PPI.
8 Adding the "actual" PPI dollar amount to the "estimated" PPI dollar amount
9 for the Rate Period thus produces a streamlined and reasonably conservative
10 estimate of the projected PPI for each Program. This data would naturally
11 refresh with every new DSM/EE cost recovery proceeding.

12 **Q. Please describe Schedule 6 of your pre-filed direct testimony, which**
13 **calculates the PPI EMF true up consistent with the Mechanism.**

14 A. My Schedule 6 calculates the EMF true up in a manner consistent with
15 Paragraph 59 of the revised Mechanism. I have obtained the number of actual
16 installed measurement units and the verified kW and kWh savings associated
17 with each Program for vintage year 2019 from the Company's most recently
18 filed EM&V Report, as filed May 15, 2020, in Docket No. E-22, Sub 577.
19 Coupled with the Company's actual costs for vintage year 2019, this
20 information is used to calculate the actual net cost/benefit results for each
21 Program. I then developed a comparison of actual results versus projected
22 cost/benefit results that are used to derive a trued-up PPI. Once a PPI true up
23 for a given vintage year has been completed based upon final EM&V data

1 filed with the Commission, the Company finalizes its PPI true up for that
2 vintage year.

3 **Q. Are you also providing information regarding the Company's event**
4 **sponsorship and consumer education and awareness initiatives during the**
5 **Test Period?**

6 A. Yes. As directed by the Commission, the Company provides the following
7 information regarding its event sponsorship and consumer education and
8 awareness initiatives during the Test Period. The EC Department actively ties
9 its communication and outreach activities directly to a specific DSM/EE
10 Program, so actual general education and awareness costs are limited.

11 The EC Department also relies heavily on the Dominion Energy, Inc.
12 ("Dominion Energy") website to provide general education to our customers
13 through tips, videos, and online energy audit tools, among other channels.
14 The EC program pages have garnered approximately 83,611 visits in the
15 current Test Period. In addition, the Company's DSM Phase III, V, VI, and
16 VII implementation vendor, Honeywell, has created its own program web
17 pages for detailed tracking on marketing efforts. Honeywell's program pages
18 have garnered over 250,000 hits during the Test Period. In addition, the EC
19 Department took advantage of other high-coverage, low-cost channels, such
20 as social media. Dominion Energy is continually growing social media
21 presence on both Facebook and Twitter gaining, since creation, over 147,000
22 fans and 61,000 followers, respectively. Whenever possible, the EC

1 Department attempts to utilize low-cost options to communicate general
2 education to our customers.

3 **Q. Please elaborate on the status of DSM/EE opt-out customers.**

4 A. As required to be listed by NCUC Rule R8-69(d)(2), the following customers
5 have elected to opt-out of the Company's DSM/EE Programs pursuant to
6 North Carolina General Statute § 62-133.9(f) and NCUC Rule R8-69(d):
7 Weyerhaeuser (1 account); Nucor Steel-Hertford (1 account); KapStone Paper
8 and Packaging Company (2 accounts); KABA Ilco (1 account); Consolidated
9 Diesel (1 account); Domtar Paper Company LLC (1 account); Enviva Pellets
10 (2 accounts); Flambeau Products Corp. (1 account); Lowes Home Center, Inc.
11 (5 accounts); Hospira, Inc. (1 account); Parkdale America LLC (1 account);
12 WalMart Stores (6 accounts); and State of North Carolina (10 accounts).
13 Company Witness Lawson's direct testimony provides projected North
14 Carolina total retail monthly sales for the Calendar Year for accounts who
15 have chosen to opt-out of the DSM/EE Rider, as required by NCUC Rule
16 R8-69(f)(1)(vii).

17 **Q. Does that conclude your pre-filed direct testimony?**

18 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
JARVIS E. BATES**

Mr. Bates is the Energy Conservation Compliance Consultant for Dominion Energy Virginia / Dominion Energy North Carolina. His responsibilities include demand-side management and energy efficiency (“DSM/EE”) program cost oversight, compliance and DSM/EE internal and external reporting. He has provided testimony in prior DSM filings in Virginia and North Carolina.

Mr. Bates has a Bachelor of Business Administration degree in Finance from James Madison University. Prior to joining the company in 2007, he had over 14 years of experience in finance, operations management, and leadership in the Telecom, Healthcare, and Retail industries. Since joining Dominion, he has held finance positions supporting the Services Company as well as supporting Energy Conservation.

Demand Side Management (DSM)

Projected System Costs

Program Cost Details - Phase IV

Rate Yr: Feb 2021 to Jan 2022

Dollars

CONFIDENTIAL INFORMATION REDACTED

Dominion Energy North Carolina

Docket No. E-22, Sub 589

Company Exhibit JEB-1

Schedule 2

Page 2 of 6

Row		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	Programs	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2022	
	Phase IV	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year
1														
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19														
20														

Notes:

1. System = Total of All Jurisdictions

2. Res. = Residential; Com. = Commercial; Non Res. = Non Residential

3. Costs exclude PPI & Lost Revenues

Dollars

Dominion Energy North Carolina
Docket No. E-22, Sub 589

Page 3 of 6

Row		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	Programs Phase V	2021 Feb	2021 Mar	2021 Apr	2021 May	2021 Jun	2021 Jul	2021 Aug	2021 Sep	2021 Oct	2021 Nov	2021 Dec	2022 Jan	Rate Year
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8														
9														
10														
11														
12														
13														
14	Notes:													
15		1. System Total of All Jurisdictions												
16		2. Res. Residential; Com. Commercial; Non Res. Non Residential												
17		3. Costs exclude PPI & Lost Revenues												
18														
19														
20														

Dollars

Dominion Energy North Carolina
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1. System Total of All Jurisdictions
2. Res. Residential; Com. Commercial; Non Res. Non Residential
3. Costs exclude PPI & Lost Revenues

Dollars

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[illegible]

Dollars

Page 6 of 6

Row		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	Programs	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2022	
	Phase VII	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year
1														
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3														
4														
5														
6														
7														
8														
9														
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28														
29														
30														
31														
32														
33														
34														
35														
36														
37	Total all Program Costs													
38	Grand Total	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 1,753,113	\$ 21,037,359
39														
40														
41	Notes:													
42		1. System = Total of All Jurisdictions												
43		2. Res. = Residential; Com. = Commercial; Non Res. = Non Residential												
44		3. Costs exclude PPI & Lost Revenues												
45														

Demand Side Management (DSM)
Projected System Common Costs
Common Costs
Rate Yr: Feb 2021 to Jan 2022
Dollars

CONFIDENTIAL INFORMATION REDACTED

Dominion Energy North Carolina
Docket No. E-22, Sub 589

Company Exhibit JEB-1
Schedule 3
Page 1 of 1

Row		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
		2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2022	
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year
1	Common Costs													
2	Energy Conservation Labor													
3	Customer Communication	26,695	26,695	26,695	26,695	26,695	26,695	26,695	26,695	26,695	26,695	26,695	26,695	320,334
4	Consultant Support													
5	Dues & Associations	6,667	6,667	6,667	6,667	6,667	6,667	6,667	6,667	6,667	6,667	6,667	6,667	80,000
6	Energy Conservation Staff Support	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	40,000
7	Total Common Costs	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 204,774	\$ 2,457,290
8														
9														
10														
11	Notes:													
12														
13														
14														
15														

1. System = Total of All Jurisdictions

Program Cost Details - Non NC DSM Programs

Rate Yr: Feb 2021 to Jan 2022

CONFIDENTIAL INFORMATION REDACTED

Dominion Energy North Carolina

Company Exhibit JEB-1

Schedule 4

Page 1 of 1

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Row				Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2021	Year 2022	Total
1	Projected by Program Total			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
2	DSM I	Res	Lighting	-	-	-	-	-	-	-	-	-	-	-	-	-
3	DSM I	Res	Air Conditioner Cycling	271	271	271	271	271	271	271	271	271	271	271	271	3,257
4	DSM I	Res	Low Income	-	-	-	-	-	-	-	-	-	-	-	-	-
5	DSM I	Com	Lighting	276	276	276	276	276	276	276	276	276	276	276	276	3,314
6	DSM I	Com	HVAC	-	-	-	-	-	-	-	-	-	-	-	-	-
7	DSM I	Com	Lighting NC	367	367	367	367	367	367	367	367	367	367	367	367	4,399
8	DSM I	Com	HVAC Upgrade NC	-	-	-	-	-	-	-	-	-	-	-	-	-
9	DSM II	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-
10	DSM II	Res	Heat Pump Upgrade	288	288	288	288	288	288	288	288	288	288	288	288	3,455
11	DSM II	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-
12	DSM II	Res	Home Energy Check-Up	16	16	16	16	16	16	16	16	16	16	16	16	194
13	DSM II	Non Res.	Duct Testing & Sealing	5,543	5,543	5,543	5,543	5,543	5,543	5,543	5,543	5,543	5,543	5,543	5,543	66,517
14	DSM II	Non Res.	Energy Audit	527	527	527	527	527	527	527	527	527	527	527	527	6,319
15	DSM III	Non Res.	Lighting Systems & Controls	5,101	5,101	5,101	5,101	5,101	5,101	5,101	5,101	5,101	5,101	5,101	5,101	61,216
16	DSM III	Non Res.	Heating & Cooling Efficiency	3,279	3,279	3,279	3,279	3,279	3,279	3,279	3,279	3,279	3,279	3,279	3,279	39,342
17	DSM III	Non Res.	Window Film	673	673	673	673	673	673	673	673	673	673	673	673	8,079
18	DSM III	Non Res.	Lighting Systems & Controls - NC Only	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	17,423
19	DSM III	Non Res.	Heating & Cooling Efficiency - NC Only	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(119)
18	DSM IV	Res.	Income and Age Qualifying Home Improve	-	-	-	-	-	-	-	-	-	-	-	-	-
19	DSM V	Non Res.	Qualifying Small Business Improvement	2,130	2,130	2,130	2,130	2,130	2,130	2,130	2,130	2,130	2,130	2,130	2,130	25,566
20	DSM V	Res.	LED Lighting - NC Only	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	57,342
21	DSM VI	Non Res.	Prescriptive	(368)	(368)	(368)	(368)	(368)	(368)	(368)	(368)	(368)	(368)	(368)	(368)	(4,415)
22	DSM VII	Res.	Appliance Recycling	181	181	181	181	181	181	181	181	181	181	181	181	2,174
23	DSM VII	Res.	Customer Engagement	-	-	-	-	-	-	-	-	-	-	-	-	-
24	DSM VII	Res.	Efficient Products Marketplace	691	691	691	691	691	691	691	691	691	691	691	691	8,292
25	DSM VII	Res.	Home Energy Assessment	452	452	452	452	452	452	452	452	452	452	452	452	5,422
26	DSM VII	Res.	Smart Thermostat - DR	-	-	-	-	-	-	-	-	-	-	-	-	-
27	DSM VII	Res.	Smart Thermostat - EE	-	-	-	-	-	-	-	-	-	-	-	-	-
28	DSM VII	Non Res.	Lighting Systems & Controls	256	256	256	256	256	256	256	256	256	256	256	256	3,068
29	DSM VII	Non Res.	Heating & Cooling Efficiency	190	190	190	190	190	190	190	190	190	190	190	190	2,283
30	DSM VII	Non Res.	Window Film	44	44	44	44	44	44	44	44	44	44	44	44	530
31	DSM VII	Non Res.	Small Manufacturing	123	123	123	123	123	123	123	123	123	123	123	123	1,482
32	DSM VII	Non Res.	Office	114	114	114	114	114	114	114	114	114	114	114	114	1,373
33																
34																
35																
36	Projected	Total		26,376	26,376	26,376	26,376	26,376	26,376	26,376	26,376	26,376	26,376	26,376	26,376	316,512
37																
38																

From DSM E-22, Sub 556
Company Exhibit No. JEB-1
Schedule 1
Page 1 of 1

Year 2020					
System Program Projected Direct Costs					
Res.	Air Conditioner Cycling		5.8046%	1.0%	\$ 4,166
Non Res.	Qualifying Small Business Improvement		5.9718%	1.0%	\$ 5,282
Non Res.	Prescriptive		5.9718%	1.0%	\$ 3,784
Res.	Appliance Recycling		5.9718%	1.0%	\$ 1,101
Res.	Efficient Products Marketplace		5.9718%	1.0%	\$ 4,033
Res.	Home Energy Assessment		5.9718%	1.0%	\$ 2,564
Non Res.	Lighting Systems & Controls		5.9718%	1.0%	\$ 1,750
Non Res.	Heating & Cooling Efficiency		5.9718%	1.0%	\$ 1,158
Non Res.	Window Film		5.9718%	1.0%	\$ 268
Non Res.	Small Manufacturing		5.9718%	1.0%	\$ 739
Non Res.	Office		5.9718%	1.0%	\$ 687
		\$ 42,956,473			\$ 25,533

Year 2021					
System Program Projected Direct Costs					
Res.	Air Conditioner Cycling		4.7946%	1.0%	\$ 2,789
Non Res.	Qualifying Small Business Improvement		5.8579%	1.0%	-
Non Res.	Prescriptive		5.8579%	1.0%	3,712
Res.	Appliance Recycling		5.8579%	1.0%	1,073
Res.	Efficient Products Marketplace		5.8579%	1.0%	4,259
Res.	Home Energy Assessment		5.8579%	1.0%	2,858
Non Res.	Lighting Systems & Controls		5.8579%	1.0%	1,318
Non Res.	Heating & Cooling Efficiency		5.8579%	1.0%	1,125
Non Res.	Window Film		5.8579%	1.0%	262
Non Res.	Small Manufacturing		5.8579%	1.0%	743
Non Res.	Office		5.8579%	1.0%	686
		\$ 33,192,754			\$ 18,826

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2019
 AC Cycling Program
 Dollars

Dominion Energy North Carolina**Docket No. E-22, Sub 589****Company Exhibit JEB-1**

Schedule 6

Page 1 of 5

Row		Col1	Col2
		Vintage Year	Vintage Year
		2019 Planned	2019 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$645,688)
5	Jurisdictional Allocation %		4.7946%
6			
7	NC Net Benefit		(\$30,958)
8	NC DR Program Incentive %	9.08%	9.08%
9	NC DR Program Incentive %	\$0	(\$2,811)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.31%	6.31%
13	Amortized Benefit	\$4,058	(\$387)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 9.08% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KW verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2019
 Non Res Lighting & Controls - NC Only
 Dollars

Dominion Energy North Carolina
Docket No. E-22, Sub 589

Company Exhibit JEB-1
 Schedule 6
 Page 2 of 5

Row		Col1	Col2
		Vintage Year	Vintage Year
		2019 Planned	2019 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		\$856,320
5	Jurisdictional Allocation %		100.0000%
6			
7	NC Net Benefit		\$856,320
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	\$126,393
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.31%	6.31%
13	Amortized Benefit	\$2,160	\$17,423

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2019
 Non Res HVAC - NC Only
 Dollars

Dominion Energy North Carolina
Docket No, E-22, Sub 589

Company Exhibit JEB-1
 Schedule 6
 Page 3 of 5

Row		Col1	Col2
		Vintage Year	Vintage Year
		2019 Planned	2019 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$5,859)
5	Jurisdictional Allocation %		100.0000%
6			
7	NC Net Benefit		(\$5,859)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$865)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.31%	6.31%
13	Amortized Benefit	\$955	(\$119)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2019
 Non Res Small Business
 Dollars

Dominion Energy North Carolina**Docket No. E-22, Sub 589****Company Exhibit JEB-1**

Schedule 6

Page 4 of 5

Row		Col1	Col2
		Vintage Year	Vintage Year
		2019 Planned	2019 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		\$5,236,783
5	Jurisdictional Allocation %		5.8579%
6			
7	NC Net Benefit		\$306,768
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	\$45,279
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.31%	6.31%
13	Amortized Benefit	\$4,667	\$6,242

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2019
 Non Res Prescriptive
 Dollars

Dominion Energy North Carolina
Docket No. E-22, Sub 589

Company Exhibit JEB-1
 Schedule 6
 Page 5 of 5

Row		Col1	Col2
		Vintage Year	Vintage Year
		2019 Planned	2019 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$4,390,487)
5	Jurisdictional Allocation %		5.8579%
6			
7	NC Net Benefit		(\$257,192)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$37,962)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.31%	6.31%
13	Amortized Benefit	\$3,810	(\$5,233)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management (DSM)
System DSM Program & Common Cost O&M Expense Actuals (1)
Test Period: Jan 2019 to Dec 2019
in Dollars

Dominion Energy North Carolina
Docket No. E-22 Sub 589

Company Exhibit JEB-1
Schedule 7
Page 1 of 1

Row		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
1		Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	Year 2019	12 Month
2		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3	Program Costs O&M													
4														
5														
6														
7														
8														
9														
10	Subtotal	34,800	79,700	98,029	106,278	50,741	32,330	36,255	30,762	26,459	24,296	13,244	17,585	550,479
11														
12														
13														
14														
15														
16	Subtotal	323,885	406,832	299,012	326,924	279,542	244,733	346,823	312,870	269,133	283,445	269,930	248,156	3,611,284
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35	Common Costs	138,463	151,010	127,565	115,450	115,925	232,897	213,811	112,906	164,135	189,430	166,961	(184,138)	1,544,416
36														
37	Total All O&M Costs	\$ 2,518,629	\$ 3,348,668	\$ 3,453,705	\$ 1,586,423	\$ 1,319,909	\$ 2,383,910	\$ 2,351,994	\$ 2,390,780	\$ 3,808,544	\$ 3,538,190	\$ 4,086,945	\$ 3,442,966	\$ 34,230,662

Notes:

1 This schedule does not include PPI, Lost Revenues or Capital. Nor does it include Electric Vehicles (which is Virginia only).

2 The Virginia only costs are for purposes of allocating common costs among programs. Dominion Energy NC is not requesting true up cost recovery for these program in this filing.

**DIRECT TESTIMONY
OF
ELIZABETH B. LECKY
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 589**

1 **Q. Please state your name, position, and business address with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Elizabeth B. Lecky. I am a Regulatory Specialist in the
5 Regulatory Accounting Department for Dominion Energy North Carolina.
6 My business address is 120 Tredegar Street, Richmond, Virginia 23219. A
7 statement of my background and qualifications is attached as Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for analyzing and calculating revenue requirements for
10 Dominion Energy North Carolina.

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

12 A. My testimony supports the Company’s request to recover all reasonable and
13 prudent costs incurred in adopting and implementing the Company’s portfolio
14 of North Carolina demand-side management (“DSM”) and energy efficiency
15 (“EE”) programs (“DSM/EE Programs” or “Programs”) and utility incentives,
16 through its updated Rider C, as well as the Company’s experience
17 modification factor (“EMF”) rider, Rider CE (“Application”).

1 The purpose of my testimony is to address the development of the updated
2 Rider C and Rider CE revenue requirements in support of the Application.
3 Pursuant to North Carolina Utilities Commission (“NCUC” or the
4 “Commission”) Rule R8-69, the Company’s Rider C revenue requirement
5 includes projected costs associated with: (a) the previously-approved Phase I
6 Air Conditioner Cycling Program;¹ (b) the previously-approved Phase IV
7 Residential Income and Age Qualifying Home Improvement Program;² (c) the
8 previously-approved Phase V Small Business Improvement Program;³ (d) the
9 previously-approved Residential Retail LED Lighting program;⁴ (e) the
10 previously-approved Phase VI Non-Residential Prescriptive Program⁵ and
11 (f) the previously-approved Phase VII Programs: Residential Appliance
12 Recycling Program,⁶ Residential Efficient Products Marketplace Program,⁷
13 Residential Home Energy Assessment Program,⁸ Non-Residential Lighting
14 Systems & Controls Program,⁹ Non-Residential Heating and Cooling
15 Efficiency Program,¹⁰ Non-Residential Window Film Program,¹¹ Non-

¹ Docket No. E-22, Sub 465. All other Phase I programs except the Residential Air Conditioner Cycling Program have previously been concluded.

² Docket No. E-22, Sub 523.

³ Docket No. E-22, Sub 538.

⁴ Docket No. E-22, Sub 539. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 539 requesting Commission approval to close the Residential Retail LED Lighting Program.

⁵ Docket No. E-22, Sub 543.

⁶ Docket No. E-22, Sub 569.

⁷ Docket No. E-22, Sub 568.

⁸ Docket No. E-22, Sub 567.

⁹ Docket No. E-22, Sub 573.

¹⁰ Docket No. E-22, Sub 574.

¹¹ Docket No. E-22, Sub 570.

1 Residential Small Manufacturing Program,¹² and Non-Residential Office
2 Program¹³.

3 Pursuant to Paragraph 28 of the revised Cost Recovery and Incentive
4 Mechanism (“Mechanism”) approved by the Commission’s May 22, 2017
5 Order issued in Docket No. E-22, Sub 464, the Rider CE revenue requirement
6 includes a true-up of the Company’s DSM/EE Rider C rates in effect for the
7 Phase I, Phase III, Phase IV, Phase V, and Phase VI Programs, and the
8 Residential Retail LED Lighting Program, during the 12-month period of
9 January 1, 2019, through December 31, 2019 (“Test Period”).

10 The Rider C and Rider CE revenue requirements presented in this filing are
11 developed in accordance with the Mechanism. Development of these revenue
12 requirements is also consistent with development of the revenue requirements
13 approved in the Company’s 2012 – 2019 DSM/EE cost recovery proceedings,
14 except as modified to comply with the Mechanism.

15 **Q. Mrs. Lecky, are you sponsoring any exhibits or schedules in connection**
16 **with your testimony?**

17 A. Yes. Company Exhibit EBL-1, consisting of Schedules 1 – 3 (Schedules 1
18 and 2 provided in public and confidential versions filed under seal), was
19 prepared under my supervision and direction and is accurate and complete to
20 the best of my knowledge and belief. My Schedule 1 supports the projected
21 rate period revenue requirement for Rider C, and Schedule 2 presents the

¹² Docket No. E-22, Sub 571.

¹³ Docket No. E-22, Sub 572.

1 revenue requirement for EMF Rider CE. Schedule 3 contains my supporting
2 workpapers pursuant to NCUC Rule R8-69(f)(1)(viii).

3 **Q. Please summarize the key components of the two revenue requirements**
4 **presented in this case.**

5 A. The pre-filed direct testimony of Company Witness Jarvis E. Bates provides
6 the projected costs and Portfolio Performance Incentive (“PPI”) related to
7 each of the previously-identified DSM/EE Programs. I have used those cost
8 projections pursuant to NCUC Rule R8-69 to calculate the expected revenue
9 requirement to be recovered through Rider C, from February 1, 2021, through
10 January 31, 2022, the proposed rate period (the “Rate Period”) in this case. In
11 particular, in order to calculate the projected revenue requirement for Rider C,
12 I incorporated the following cost components: (1) operating expenses
13 projected to be incurred during the Rate Period; (2) capital costs (including
14 related depreciation expense) projected to be incurred during the Rate Period;
15 and (3) PPI projected for the Rate Period pursuant to the revised Mechanism.
16 As noted by Company Witness Michael T. Hubbard, and consistent with the
17 Company’s last six annual cost recovery proceedings,¹⁴ the Company is not
18 projecting net lost revenues for the Rate Period in this proceeding. Each of
19 these other cost components will be discussed in more detail later in my
20 testimony.

21 For the DSM/EE EMF Rider CE, I have incorporated actual costs (both
22 capital and O&M components) and PPI as provided by Company Witness

¹⁴ Docket No. E-22, Subs 513, 524, 536, 545, 556, and 577.

1 Bates for the Test Period. I have also included measured net lost revenues in
2 the Rider CE revenue requirement for the Test Period as described in more
3 detail later in my testimony.

4 **Q. How did you determine what the Rate Period and Test Period should be**
5 **for this proceeding?**

6 A. Pursuant to NCUC Rule R8-69(a), the Rate Period is the same as the period
7 during which the rider established under Commission Rule R8-55, the
8 Company's fuel factor, is in effect. As explained by Company Witness
9 Hubbard, in previous years, the Company has proposed Rider C rates to be
10 effective for a calendar year Rate Period, consistent with the rate period
11 previously used for fuel factor riders under Rule R8-55. Based on discussions
12 with the Public Staff following the conclusion of the Company's 2017 rider
13 proceedings, the Company is proposing for updated Rider C to be effective for
14 a February 1, 2021, through January 31, 2022 Rate Period similar to the rate
15 period approved in the 2019 Cost Recovery Rider proceeding. The Test
16 Period for this proceeding will be the 12-month period ending December 31,
17 2019, as provided for in Paragraph 28 of the Mechanism.

18 **Q. What capital structure and rate of return on common equity has the**
19 **Company used to calculate the capital related costs for the Test Period**
20 **and Rate Period in this proceeding?**

21 A. Consistent with Paragraph 40 of the Mechanism, the Company has calculated
22 the capital-related costs for the Test Period for the months of January through
23 October 2019 using the actual capital structure and cost of capital for the 12-

1 month period ended December 31, 2019, incorporating a 9.90% return on
2 common equity (“ROE”) that was approved in the Company’s previous
3 general rate case in Docket No. E-22, Sub 532. For the 2-month period of
4 November and December 2019, the Company utilized the capital structure and
5 cost of capital for the 12-month period ended December 31, 2019,
6 incorporating a 9.75% ROE as approved in the Company’s most recent
7 general rate case on February 24, 2020, in Docket No. E-22, Sub 562.¹⁵ For
8 calculating the projected Rate Period in this proceeding, the Company has
9 utilized the NCUC ES-1 capital structure and cost of capital for the period
10 ending June 30, 2020, incorporating the 9.75% ROE.¹⁶

11 **Q. Do the Rider C and Rider CE revenue requirements include recovery of**
12 **net lost revenues?**

13 A. As addressed by Company Witness Hubbard, only Rider CE includes a
14 request to recover measured net lost revenues, as allowed by Commission
15 Rule R8-69(c)(1) and the Mechanism. As noted above, the Company has not
16 projected Rate Period net lost revenues for recovery in this proceeding. Going
17 forward, all net future Test Year lost revenues will be appropriately recovered
18 through a future EMF Rider CE true-up cost recovery factor. As I will discuss
19 in greater detail below, Rider CE provides for the recovery of actual
20 incremental North Carolina jurisdictional kWh energy reductions for the Test
21 Period.

¹⁵ See Order Accepting Public Staff Stipulation in Part, Accepting CIGFUR Stipulation, Deciding Contested Issues, and Granting Partial Rate Increase, Docket No. E-22, Sub 562 (Feb. 24, 2020).

¹⁶ As of the date of this filing, the June 30, 2020 NCUC ES-1 Report has not yet been filed; however, the capital structure and cost of capital included in the June 30, 2020 NCUC ES-1 Report reflects the appropriate time period necessary for calculating the projected Rate Period in this proceeding.

1 **Q. Are there any other limitations on the eligibility of energy savings as a**
2 **result of the Company’s approved EE programs to count towards**
3 **recovery of net lost revenues?**

4 A. Paragraph 43 of the Mechanism provides that kWh sales reductions achieved
5 by a measurement unit installed in a given Vintage Year are eligible for use in
6 calculating lost revenues for only the first 36 months after installation of the
7 measurement unit. Further, Paragraph 46 of the Mechanism provides that
8 notwithstanding this 36-month period of kWh sales reductions, any installed
9 measurement unit shall cease being eligible for use in calculating net lost
10 revenues as of the effective date of (a) a Commission-approved alternative
11 cost recovery mechanism that accounts for the eligible recoverable net lost
12 revenues associated with eligible kWh sales reductions, or (b) the
13 implementation of new base rates approved in a general rate case or
14 comparable proceeding to the extent that the rates set in that proceeding are
15 set to explicitly or implicitly recover the net lost revenues associated with an
16 installed measurement unit’s kWh sales reductions.

17 **Q. Did the installation of the measurement units used to calculate the actual**
18 **net lost revenues for the Test Period in this filing fall within the 36-month**
19 **limitation provided for under Paragraph 43 of the Mechanism?**

20 A. Yes. As part of the DSM/EE EMF Rider CE, the Company is seeking to
21 recover net lost revenues resulting from measures installed up through the end
22 of the 2019 Test Period.

1 **Q. Has a portion of kWh energy savings associated with previously-installed**
2 **measures already been captured in the Company's non-fuel base rates?**

3 A. Yes. Consistent with the methodology used in the Company's 2016 general
4 rate case, the rates approved in the Company's 2019 general rate case were
5 designed to include the cumulative kWh sales reductions recognized in the net
6 lost revenues related to EE measurement units installed through June 30,
7 2019, to be recovered through base rates beginning on November 1, 2019.
8 Therefore, consistent with Paragraph 46 of the Mechanism, beginning
9 November 1, 2019, the Company excludes from total kWh energy savings, the
10 June 30, 2019 total cumulative monthly level of kWh sales reductions that
11 were incorporated into base rates effective November 1, 2019. The net lost
12 revenues proposed for recovery in this filing for November and December
13 2019 include only incremental kWh energy savings resulting from energy
14 efficiency measures installed subsequent to June 30, 2019.

15 **Q. Mrs. Lecky, can you describe in more detail the projected Rate Period**
16 **revenue requirement to be recovered through Rider C requested in this**
17 **case?**

18 A. Yes. The projected revenue requirement begins with the projected operating
19 expense revenue requirement as reflected on line 1 of page 1 of my
20 Schedule 1. The projected operating expenses for the Rate Period, as
21 supported in the pre-filed direct testimony of Company Witness Bates, are
22 presented for current recovery by program on line 1 of page 2 of my
23 Schedule 1. Line 2 of page 2 of my Schedule 1 presents the system level

1 common costs that are allocated to each program in accordance with the
2 methodology described by Company Witness Robert E. Miller. The projected
3 operating expenses and proportionate share of common costs for each
4 program are then allocated to the North Carolina jurisdiction using the
5 jurisdictional allocation factors supported by Company Witness Miller, to
6 derive the projected North Carolina jurisdictional operating expense revenue
7 requirement presented on line 5 of page 3 of my Schedule 1.

8 The second component of the projected Rate Period revenue requirement is
9 the projected capital costs revenue requirement as presented on line 2 of
10 page 1 of my Schedule 1. Lines 6 through 9 of page 3 of my Schedule 1
11 present the projected North Carolina jurisdictional depreciation expense,
12 amortization of the excess deferred income taxes (“EDIT”) that were a result
13 of the Tax Cuts and Jobs Act of 2017 (“TCJA”), property taxes, and rate base
14 costs, respectively, related to the Air Conditioner Cycling Program. The
15 projected rate base for the Rate Period as depicted on page 4 of my Schedule 1
16 includes the actual system level net plant balances as of June 30, 2020, and
17 projected monthly system level capital expenditures as supported by Company
18 Witness Bates. The Air Conditioner Cycling Program is the only DSM/EE
19 program with capital expenditures being presented for recovery in this current
20 filing. The capital expenditures, projected to be closed to plant-in-service
21 each month, are added to the actual June 30, 2020 plant balance, and
22 accumulated throughout the Rate Period. The projected monthly depreciation
23 expense is projected using a 7.15% annual depreciation factor from the

1 Company's most recent depreciation study. This projected annual
2 depreciation rate factor assumes an estimated depreciable life of 15 years with
3 0% net salvage and includes interim retirement assumptions. The resulting
4 depreciation expenses projected to be incurred during the Rate Period are
5 included for current recovery as shown on line 5 of page 4 of my Schedule 1,
6 and the projected accumulated depreciation balances are shown as a reduction
7 to average rate base as reflected on line 6 of page 4. The monthly
8 accumulated deferred income taxes ("ADIT"), as supported by my
9 Schedule 3, also serve as monthly reductions to the projected rate base for the
10 Rate Period as reflected on line 8 of page 4 of my Schedule 1. These ADIT
11 balances include the EDIT balances that resulted from the TCJA. These
12 system level projected amounts are then allocated to the North Carolina
13 jurisdiction as explained by Company Witness Miller in his direct testimony
14 in this proceeding.

15 The projected North Carolina jurisdiction rate base financing costs are
16 determined by multiplying each two-month average rate base for the Rate
17 Period by the Company's cost of capital as presented on line 4 of page 5 of
18 my Schedule 1. As discussed above, for purposes of this Application, the
19 Company has used the capital structure and cost of capital as provided in the
20 Company's forthcoming June 30, 2020 NCUC ES-1 Report, incorporating a
21 rate of return on common equity of 9.75%, which resulted in a weighted
22 average cost of capital of 7.285% as presented on page 5 of my Schedule 1.
23 The equity component for purposes of determining the return on rate base is

1 grossed up to a revenue level in developing the common equity including
2 income taxes revenue requirement on rate base as presented on line 20 of page
3 4 of my Schedule 1.

4 The final component of my Rate Period revenue requirement is the projected
5 PPI revenue requirement shown on line 4 of page 1 of my Schedule 1.

6 Company Witness Bates provides the PPI calculation, which is incorporated
7 into the revenue requirement and reflected on line 11 of page 3 of my
8 Schedule 1.

9 **Q. Please provide an overview of the DSM/EE EMF Rider CE revenue**
10 **requirement.**

11 A. Consistent with Paragraph 37 of the Mechanism, this DSM/EE EMF requests
12 recovery of the “difference between the reasonable and prudent Costs incurred
13 or amortized during the applicable test period and the revenues actually
14 realized during such test period under the DSM/EE rider then in effect.” The
15 DSM/EE EMF Rider CE also includes a true up of the PPI and net lost
16 revenues components for this same Test Period. Finally, the DSM/EE EMF
17 Rider CE includes a return on the over- or under-recovery balance up and
18 until the effective date of the Rate Period on February 1, 2021, calculated at
19 the rate of return approved in the Company’s most recent general rate case in
20 Docket No. E-22, Sub 562. Commission Rule R8-69(e)(3) provides that the
21 EMF will remain in effect for a fixed 12-month period and will continue as a
22 rider to rates established in any intervening general rate case.

1 **Q. Mrs. Lecky, can you now describe the details of the DSM/EE EMF Rider**
2 **CE revenue requirement calculation presented on page 1 of your**
3 **Schedule 2?**

4 **A.** Yes. Page 1 of my Schedule 2 presents the DSM/EE EMF Rider CE revenue
5 requirement requested for recovery during the Rate Period. The monthly
6 revenue requirement on line 1 of page 1 of my Schedule 2 reflects the
7 reasonable and prudent costs actually incurred during the Test Period in this
8 proceeding. This actual monthly revenue requirement is calculated on pages 2
9 and 3 of my Schedule 2 and will be discussed in greater detail below. The
10 actual monthly Rider C revenues included on line 4 of page 1 of my
11 Schedule 2 were obtained from the Company's Accounting Department. As
12 first established in the Company's 2013 DSM/EE cost recovery proceeding,
13 pursuant to NCUC Rule R8-69(c)(3), lines 2 and 5 eliminate utility incentives
14 from the calculation of carrying costs on the EMF Test Period over/under-
15 recovery deferral. The net monthly over- or under-recovered amount as
16 presented on line 7 of page 1 of my Schedule 2 will be refunded or collected
17 over the Rate Period. In addition, as prescribed by Rule R8-69(b)(6), carrying
18 costs are calculated on the over- or under-recovered deferral amounts net of
19 utility incentives at the rate of return approved in the Company's most recent
20 general rate case in Docket No. E-22, Sub 562. Also pursuant to Commission
21 Rule R8-69(b)(6), the equity component has been grossed up to reflect the
22 necessary recovery of income taxes. The total carrying costs calculated on the

1 monthly over- or under-recovered amounts net of utility incentives for the
2 Test Period are presented on line 13 of page 1 of my Schedule 2.

3 Also pursuant to Rule R8-69(b)(6), financing costs are calculated for the
4 current EMF Test Period over-recovery amount, exclusive of utility
5 incentives, as presented on line 8 of page 1 of my Schedule 2. Line 15 reflects
6 these carrying costs which are calculated on line 5 of page 6 of my Schedule 2
7 for the deferral period of January 2020 through January 2021 at the net-of-tax
8 rate of return approved in the Company's most recent general rate case in
9 accordance with Rule R8-69(b)(6).

10 The carrying costs net of utility incentives to be refunded on line 13 of page 1,
11 combined with the related 2019 financing costs on line 15, are offset by the
12 net monthly under-recovered amounts calculated on line 7, to reflect the total
13 DSM/EE EMF Rider CE revenue requirement amount to be recovered over
14 the Rate Period.

15 **Q. Please describe the remaining pages of Schedule 2 that support the**
16 **DSM/EE EMF Rider CE revenue requirement presented on page 1 of**
17 **your Schedule 2.**

18 A. Pages 2 and 3 of my Schedule 2 present the monthly revenue requirement for
19 the reasonable and prudent costs actually incurred during the Test Period. The
20 actual operating expenses provided by Company Witness Bates for each
21 Program include a proportionate share of Common Costs allocated according
22 to the methodology described by Company Witness Miller, and are included

1 on line 2 of page 2 of my Schedule 2. This Common Cost allocation
2 methodology is in compliance with the Mechanism and is also consistent with
3 the methodology employed in the Company's previous DSM filings. The
4 resulting system level amounts are then allocated to the North Carolina
5 jurisdiction as explained by Company Witness Miller to derive the North
6 Carolina jurisdictional operating expenses including Common Costs presented
7 on line 5 of page 3 of my Schedule 2. Line 6 of page 3 of my Schedule 2
8 presents the monthly property taxes related to the air conditioner cycling
9 program assets, line 7 presents the actual North Carolina jurisdictional
10 depreciation expense, line 8 presents the amortization of EDIT that resulted
11 from the TCJA, and line 9 shows the return on rate base as calculated on page
12 4 of my Schedule 2. Next, the North Carolina jurisdictional net lost revenues
13 calculated on page 5 of my Schedule 2 are included on line 10 of page 3 of my
14 Schedule 2. Finally, the actual PPI amounts for the Test Period, as calculated
15 by Company Witness Bates, are included on line 11 of page 3 of my
16 Schedule 2. The resulting monthly revenue requirement by program
17 calculated on line 12 and totaled on line 13 of page 3 of my Schedule 2
18 reflects the reasonable and prudent costs actually incurred during the Test
19 Period.

20 The revenue requirement on Rate Base Costs for the Test Period is calculated
21 on page 4 of my Schedule 2. Actual monthly Net Plant balances and ADIT
22 were provided by the Fixed Assets Department and Tax Department,
23 respectively. As explained previously, the ADIT balances include the EDIT

1 balances that resulted from the TCJA. Depreciation expenses incurred during
2 the Test Period are included in the actual costs, and the accumulated balances
3 are shown as a reduction to plant-in-service to derive cumulative system level
4 of net plant as presented on line 4 of page 4 of my Schedule 2. The monthly
5 accumulated deferred income taxes on line 5 of page 4, as supported by my
6 Schedule 3, also serve as monthly reductions to the rate base for the Test
7 Period. These system level amounts are then allocated to the North Carolina
8 jurisdiction as explained by Company Witness Miller to derive the monthly
9 North Carolina jurisdictional AC Cycling rate base amounts as included on
10 line 8.

11 The 2-month average North Carolina jurisdictional rate base over the Test
12 Period is presented on line 9 of page 4. As described earlier in my testimony,
13 to determine the return on rate base for the Test Period, the 2-month rate base
14 averages on line 9 of page 4 were multiplied by the Company's cost of capital
15 based on the capital structure and cost of capital for the 12-month period
16 ended December 31, 2019, incorporating a rate of return on common equity of
17 9.90% for the January 2019 through October 2019 period prior to the new
18 base rates taking effect on November 1, 2019, which resulted in a weighted
19 average cost of capital of 7.351%. For the period of November 1, 2019
20 through December 31, 2019, the Company utilized the Commission approved
21 ROE of 9.75% which resulted in a weighted average cost of capital of
22 7.271%, as presented on line 8 of page 7 of my Schedule 2. The equity
23 component is grossed up to a revenue level for purposes of calculating the

1 revenue requirement on rate base costs during the Test Period as presented on
2 line 17 of page 4 of my Schedule 2.

3 Page 5 of my Schedule 2 presents the calculation of the actual net lost
4 revenues for the Test Period, based upon the actual North Carolina
5 jurisdictional energy reductions as presented by Company Witness Deanna R.
6 Kesler. Company Witness Casey R. Lawson provides the billing rates applied
7 to these North Carolina jurisdictional net kWh energy savings as presented on
8 line 2 of page 5 of my Schedule 2. The actual net lost revenues are then
9 reduced for variable O&M savings and found revenues. The variable O&M
10 savings presented on line 4 of page 5 were provided by the Company's
11 Integrated Resource Planning Department. As discussed by Company
12 Witness Hubbard, there were no actual found revenues for the Test Period as
13 indicated on line 5 of page 5 of my Schedule 2. Line 6 of page 5 provides the
14 net lost revenues by program for the Test Period.

15 As previously mentioned, page 6 of my Schedule 2 presents the calculation of
16 financing costs on the Rider CE net of utility incentives over-recovery to be
17 refunded over the Rate Period, pursuant to NCUC Rules R8-69(b)(3) and (6),
18 and Paragraph 39 of the Mechanism.

19 **Q. What is the total revenue requirement for Riders C and CE?**

20 A. As summarized on page 1 of my Schedule 1, the Company is requesting
21 recovery of projected operating expenses of \$2,153,629, and a projected
22 capital cost revenue requirement of \$97,479. These amounts combined with

1 the projected PPI of \$316,512 provide for a total Rider C revenue requirement
2 of \$2,567,620.

3 As depicted on page 1 of my Schedule 2, the Rider CE revenue requirement
4 presents the amount of \$467,202, which will be recovered by the Company
5 over the Rate Period. The combined revenue requirements for the two riders,
6 Rider C and Rider CE, for the Rate Period totals \$3,034,822, representing a
7 \$899,468 decrease from the rates currently in effect.

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

9 **A. Yes, it does.**

**BACKGROUND AND QUALIFICATIONS
OF
ELIZABETH B. LECKY**

Elizabeth Lecky graduated from Randolph-Macon College with a Bachelor of Science degree in Business/Economics and Accounting, and she is a Certified Public Accountant. Prior to joining the Company in June 2010, she had over five years of experience in accounting. Mrs. Lecky has held numerous accounting positions within the Company prior to joining the Regulatory Accounting Department in February 2018. Her current position of Regulatory Specialist includes responsibility for analyzing and calculating revenue requirements for Dominion Energy Virginia rate proceedings.

Mrs. Lecky has previously provided testimony before the State Corporation Commission of Virginia.

**Dominion Energy North Carolina
Docket No. E-22, Sub 589
Projected Revenue Requirement for DSM/EE Rider C
For the Rate Period February 1, 2021 - January 31, 2022**

<u>line no.</u>	<u>Rider C</u>	<u>Item Location / Formula</u>
1 Projected Operating Expense Revenue Requirement	\$ 2,153,629	Sch 1, Page 3, Line 5
2 Projected Capital Costs Revenue Requirement	\$ 97,479	Sch 1, Page 3, Line 6 + Line 7 + Line 8 + Line 9
3 Projected Net Lost Revenues	\$ -	Sch 1, Page 3, Line 10
4 Projected Program Performance Incentive Revenue Requirement	<u>\$ 316,512</u>	Sch 1, Page 3, Line 11
5 Total Revenue Requirement	\$ 2,567,620	Line 1 + Line 2 + Line 3 + Line 4

[illegible]

[illegible]

Dominion Energy North Carolina
Docket No. E-22, Sub 589
Revenue Requirement for DSM/EE Rider C
Projected Rate Base Cost For the Period June 1, 2020 - January 31, 2021

line no.	<u>Actual</u> <u>Jun-20</u>	<u>Projection</u> <u>Jul-20</u>	<u>Projection</u> <u>Aug-20</u>	<u>Projection</u> <u>Sep-20</u>	<u>Projection</u> <u>Oct-20</u>	<u>Projection</u> <u>Nov-20</u>	<u>Projection</u> <u>Dec-20</u>	<u>Projection</u> <u>Jan-21</u>	<u>Projection</u> <u>Feb-21</u>	<u>Projection</u> <u>Mar-21</u>	<u>Projection</u> <u>Apr-21</u>	<u>Projection</u> <u>May-21</u>	<u>Projection</u> <u>Jun-21</u>	<u>Projection</u> <u>Jul-21</u>	<u>Projection</u> <u>Aug-21</u>	<u>Projection</u> <u>Sep-21</u>	<u>Projection</u> <u>Oct-21</u>	<u>Projection</u> <u>Nov-21</u>	<u>Projection</u> <u>Dec-21</u>	<u>Projection</u> <u>Jan-22</u>
1 System Level Actual Plant In Service Air Conditioner Cycling Program	\$ 19,803,769																			
2 Projected Capital Expenditures Air Conditioner Cycling Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 Cumulative Gross Plant (Line 1 + Line 2) Air Conditioner Cycling Program	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769	\$ 19,803,769
4 Monthly Depreciation Percentages Air Conditioner Cycling Program	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%	0.5958%
5 Projected System Monthly Depreciation Expense (Line 3 * Line 4) Air Conditioner Cycling Program		\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997	\$ 117,997
6 Actual/Projected System Level of Accumulated Depreciation Air Conditioner Cycling Program	\$ 9,987,798	\$ 10,105,796	\$ 10,223,793	\$ 10,341,791	\$ 10,459,788	\$ 10,577,786	\$ 10,695,783	\$ 10,813,781	\$ 10,931,778	\$ 11,049,776	\$ 11,167,773	\$ 11,285,770	\$ 11,403,768	\$ 11,521,765	\$ 11,639,763	\$ 11,757,760	\$ 11,875,758	\$ 11,993,755	\$ 12,111,753	\$ 12,229,750
7 Actual/Projected Cumulative Net Plant (Line 3 - Line 6) Air Conditioner Cycling Program	\$ 9,815,971	\$ 9,697,973	\$ 9,579,976	\$ 9,461,978	\$ 9,343,981	\$ 9,225,983	\$ 9,107,986	\$ 8,989,988	\$ 8,871,991	\$ 8,753,994	\$ 8,635,996	\$ 8,517,999	\$ 8,400,001	\$ 8,282,004	\$ 8,164,006	\$ 8,046,009	\$ 7,928,011	\$ 7,810,014	\$ 7,692,016	\$ 7,574,019
8 Actual/Projected Accumulated Deferred Income Tax¹ Air Conditioner Cycling Program	\$ (1,926,388)	\$ (1,909,103)	\$ (1,894,402)	\$ (1,882,199)	\$ (1,872,580)	\$ (1,865,460)	\$ (1,860,921)	\$ (1,858,916)	\$ (1,828,420)	\$ (1,800,538)	\$ (1,775,182)	\$ (1,752,442)	\$ (1,732,229)	\$ (1,714,630)	\$ (1,699,643)	\$ (1,687,185)	\$ (1,677,341)	\$ (1,670,026)	\$ (1,665,323)	\$ (1,638,907)
9 Monthly Actual/Projected Rate Base (Line 7 + Line 8): Air Conditioner Cycling Program	\$ 7,889,582	\$ 7,788,870	\$ 7,685,573	\$ 7,579,779	\$ 7,471,401	\$ 7,360,523	\$ 7,247,065	\$ 7,131,072	\$ 7,043,571	\$ 6,953,455	\$ 6,860,814	\$ 6,765,556	\$ 6,667,772	\$ 6,567,373	\$ 6,464,363	\$ 6,358,824	\$ 6,250,670	\$ 6,139,988	\$ 6,026,693	\$ 5,935,112
10 Jurisdictional Allocation Factors Air Conditioner Cycling Program	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%
11 North Carolina Actual/Projected Rate Base (Line 9 x Line 10) Air Conditioner Cycling Program	\$ 378,274	\$ 373,445	\$ 368,493	\$ 363,420	\$ 358,224	\$ 352,908	\$ 347,468	\$ 341,906	\$ 337,711	\$ 333,390	\$ 328,949	\$ 324,381	\$ 319,693	\$ 314,879	\$ 309,940	\$ 304,880	\$ 299,695	\$ 294,388	\$ 288,956	\$ 284,565
12 Rate Base (2 month average)									\$ 339,809	\$ 335,551	\$ 331,169	\$ 326,665	\$ 322,037	\$ 317,286	\$ 312,410	\$ 307,410	\$ 302,287	\$ 297,041	\$ 291,672	\$ 286,760
13 Cost of Capital									0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%	0.6071%
14 Net Operating Income									\$ 2,063	\$ 2,037	\$ 2,010	\$ 1,983	\$ 1,955	\$ 1,926	\$ 1,897	\$ 1,866	\$ 1,835	\$ 1,803	\$ 1,771	\$ 1,741
Less Interest Expense LTD																				
15 Weighted Cost of Debt									0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%	0.1716%
16 Rate Base									\$ 339,809	\$ 335,551	\$ 331,169	\$ 326,665	\$ 322,037	\$ 317,286	\$ 312,410	\$ 307,410	\$ 302,287	\$ 297,041	\$ 291,672	\$ 286,760
17 Revenue Requirement - Interest Expense on Debt									\$ 583	\$ 576	\$ 568	\$ 561	\$ 553	\$ 545	\$ 536	\$ 528	\$ 519	\$ 510	\$ 501	\$ 492
18 Net Income Related to Common Equity									\$ 1,480	\$ 1,461	\$ 1,442	\$ 1,422	\$ 1,402	\$ 1,382	\$ 1,360	\$ 1,339	\$ 1,316	\$ 1,293	\$ 1,270	\$ 1,249
19 North Carolina Jurisdictional Income Tax Gross-up Factor									74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%
20 Revenue Requirement - Common Equity Including Income Taxes									\$ 1,989	\$ 1,965	\$ 1,939	\$ 1,912	\$ 1,885	\$ 1,858	\$ 1,829	\$ 1,800	\$ 1,770	\$ 1,739	\$ 1,708	\$ 1,679
21 Revenue Requirement on Rate Base (Line 17 + Line 20)									\$ 2,573	\$ 2,540	\$ 2,507	\$ 2,473	\$ 2,438	\$ 2,402	\$ 2,365	\$ 2,327	\$ 2,289	\$ 2,249	\$ 2,208	\$ 2,171

¹ Includes Excess Deferred Income Tax balance

Dominion Energy North Carolina
Docket No. E-22, Sub 589

For Collection During the Rate Period February 1, 2021 - January 31, 2022

Cost of Capital and Capital Structure (000s)

As of June 30, 2020

line
no.

Description		Average Capitalization	Average Capitalization Ratio	Average Embedded Cost%	Overall Cost Rate
1	Total Long-Term Debt	\$11,859,748	46.407%	4.438%	2.060%
2	Total Preferred Stock	\$0	0.000%	0.000%	0.000%
3	Common Equity	\$13,696,381	53.593%	9.750%	5.225%
4	Total	<u>\$25,556,129</u>	<u>100.000%</u>		<u>7.285%</u>

Dominion Energy North Carolina
Docket No. E-22, Sub 589
Projected Revenue Requirement For DSM/EE Rider C
For the Rate Period February 1, 2021 - January 31, 2022

R8-69 (f)(1)(ii)(a) System Rate Period Revenue Requirement per Program (excludes net lost revenue)

Program	O&M (1)	Depreciation Expense	Cost of Capital	Utility Incentives	Total Costs and Incentives
Air Conditioner Cycling Program		\$1,415,969	\$595,325	\$67,931	
Residential NC Only Low Income Program		\$0	\$0	\$0	
Commercial HVAC Upgrade Program		\$0	\$0	\$0	
Commercial Lighting Program		\$0	\$0	\$131,670	
Residential Heat Pump Tune-up Program		\$0	\$0	\$0	
Residential Heat Pump Upgrade Program		\$0	\$0	\$58,973	
Residential Duct Testing & Sealing Program		\$0	\$0	\$0	
Residential Home Energy Check-Up Program		\$0	\$0	\$3,319	
Non-Residential Duct Testing & Sealing Program		\$0	\$0	\$1,135,517	
Non-Residential Energy Audit Program		\$0	\$0	\$107,867	
Non-Residential Window Film Program		\$0	\$0	\$137,912	
Non-Residential Heating & Cooling Efficiency Program		\$0	\$0	\$669,571	
Non-Residential Lighting Systems & Controls Program		\$0	\$0	\$1,342,448	
Residential Income and Age Qualifying Home Improvement Program		\$0	\$0	\$0	
Qualifying Small Business Improvement Program		\$0	\$0	\$436,430	
Residential LED Lighting - NC Only		\$0	\$0	\$57,342	
Non-Residential Prescriptive Program		\$0	\$0	(\$75,375)	
Residential Appliance Recycling Program		\$0	\$0	\$37,116	
Residential Customer Engagement Program		\$0	\$0	\$0	
Residential Efficient Products Marketplace Program		\$0	\$0	\$141,546	
Residential Home Energy Assessment Program		\$0	\$0	\$92,566	
Residential Smart Thermostat - DR Program		\$0	\$0	\$0	
Residential Smart Thermostat - EE Program		\$0	\$0	\$0	
Non-Residential Lighting Systems & Controls Program		\$0	\$0	\$52,371	
Non-Residential Heating & Cooling Efficiency Program		\$0	\$0	\$38,967	
Non-Residential Window Film Program		\$0	\$0	\$9,051	
Non-Residential Small Manufacturing Program		\$0	\$0	\$25,293	
Non-Residential Office Program		\$0	\$0	\$23,443	
Common Costs	\$2,393,980				\$2,393,980

R8-69 (f)(1)(ii)(a) North Carolina Jurisdictional Rate Period Revenue Requirement per Program (excludes net lost revenue)

Program	O&M (1)	Depreciation Expense (2)	Cost of Capital	Utility Incentives	Total Costs and Incentives
Residential Lighting Program (PPI Only)		\$0	\$0	\$0	
Air Conditioner Cycling Program		\$60,664	\$28,543	\$3,257	
Residential NC Only Low Income Program		\$0	\$0	\$0	
Commercial HVAC Upgrade Program		\$0	\$0	\$0	
Commercial Lighting Program		\$0	\$0	\$7,713	
Residential Heat Pump Tune-up Program		\$0	\$0	\$0	
Residential Heat Pump Upgrade Program		\$0	\$0	\$3,455	
Residential Duct Testing & Sealing Program		\$0	\$0	\$0	
Residential Home Energy Check-Up Program		\$0	\$0	\$194	
Non-Residential Duct Testing & Sealing Program		\$0	\$0	\$66,517	
Non-Residential Energy Audit Program		\$0	\$0	\$6,319	
Non-Residential Window Film Program		\$0	\$0	\$8,079	
Non-Residential Heating & Cooling Efficiency Program		\$0	\$0	\$39,223	
Non-Residential Lighting Systems & Controls Program		\$0	\$0	\$78,639	
Residential Income and Age Qualifying Home Improvement Program		\$0	\$0	\$0	
Qualifying Small Business Improvement Program		\$0	\$0	\$25,566	
Residential LED Lighting - NC Only		\$0	\$0	\$57,342	
Non-Residential Prescriptive Program		\$0	\$0	(\$4,415)	
Residential Appliance Recycling Program		\$0	\$0	\$2,174	
Residential Customer Engagement Program		\$0	\$0	\$0	
Residential Efficient Products Marketplace Program		\$0	\$0	\$8,292	
Residential Home Energy Assessment Program		\$0	\$0	\$5,422	
Residential Smart Thermostat - DR Program		\$0	\$0	\$0	
Residential Smart Thermostat - EE Program		\$0	\$0	\$0	
Non-Residential Lighting Systems & Controls Program		\$0	\$0	\$3,068	
Non-Residential Heating & Cooling Efficiency Program		\$0	\$0	\$2,283	
Non-Residential Window Film Program		\$0	\$0	\$530	
Non-Residential Small Manufacturing Program		\$0	\$0	\$1,482	
Non-Residential Office Program		\$0	\$0	\$1,373	

(1) O&M Includes AC Cycling Property Taxes

(2) Depreciation Expense includes EDIT Amortization

Dominion Energy North Carolina
Docket No. E-22, Sub 589
DSM/EE Experience Modification Factor (Rider CE) for the Test Period January 1, 2019 through December 31, 2019
For (Refund)/Recovery in the Rate Period February 1, 2021 - January 31, 2022

line no.	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Rider CE Total
1 Monthly Revenue Requirement (Page 3; Line 13)	\$ 251,702	\$ 327,898	\$ 337,523	\$ 315,082	\$ 249,778	\$ 291,159	\$ 310,451	\$ 292,805	\$ 283,669	\$ 263,503	\$ 155,143	\$ 150,213	\$ 3,228,926
2 Less: Portion Related to Utility Incentives (Page 3, Lines 10 & 11)	<u>\$ (114,860)</u>	<u>\$ (117,777)</u>	<u>\$ (119,650)</u>	<u>\$ (123,423)</u>	<u>\$ (123,482)</u>	<u>\$ (136,666)</u>	<u>\$ (145,512)</u>	<u>\$ (143,124)</u>	<u>\$ (142,834)</u>	<u>\$ (129,408)</u>	<u>\$ (32,067)</u>	<u>\$ (32,384)</u>	<u>\$ (1,361,186)</u>
3 Monthly Revenue Requirement Net of Incentives (Line 1 + Line 2)	\$ 136,841	\$ 210,121	\$ 217,874	\$ 191,659	\$ 126,296	\$ 154,492	\$ 164,939	\$ 149,681	\$ 140,835	\$ 134,096	\$ 123,076	\$ 117,829	\$ 1,867,739
4 Monthly Rider C Revenues	\$ 268,016	\$ 240,935	\$ 188,049	\$ 162,478	\$ 174,973	\$ 299,665	\$ 216,797	\$ 209,021	\$ 300,312	\$ 140,809	\$ 304,591	\$ 205,835	\$ 2,711,479
5 Less: Portion Related to Utility Incentives (Rev Req in Previous Rider C Filings)	<u>\$ (23,727)</u>	<u>\$ (29,075)</u>	<u>\$ (22,693)</u>	<u>\$ (19,607)</u>	<u>\$ (21,115)</u>	<u>\$ (36,163)</u>	<u>\$ (26,162)</u>	<u>\$ (25,224)</u>	<u>\$ (36,241)</u>	<u>\$ (16,992)</u>	<u>\$ (36,757)</u>	<u>\$ (24,839)</u>	<u>\$ (318,596)</u>
6 Monthly Rider C Revenues Net of Incentives (Line 4 + Line 5)	\$ 244,289	\$ 211,859	\$ 165,356	\$ 142,871	\$ 153,858	\$ 263,502	\$ 190,635	\$ 183,797	\$ 264,071	\$ 123,817	\$ 267,834	\$ 180,995	\$ 2,392,884
7 Monthly (Over)/Under Recovery Before Carrying Costs (Line 1 - Line 4)	\$ (16,314)	\$ 86,964	\$ 149,475	\$ 152,604	\$ 74,805	\$ (8,506)	\$ 93,654	\$ 83,784	\$ (16,643)	\$ 122,694	\$ (149,448)	\$ (55,622)	\$ 517,446
8 Monthly (Over)/Under Reccovery Excluding Utility Incentives (Line 3 - Line 6)	\$ (107,448)	\$ (1,738)	\$ 52,518	\$ 48,788	\$ (27,561)	\$ (109,010)	\$ (25,696)	\$ (34,116)	\$ (123,236)	\$ 10,279	\$ (144,758)	\$ (63,166)	\$ (525,144)
9 Deferred Income Tax	\$ (27,532)	\$ (445)	\$ 13,457	\$ 12,501	\$ (7,062)	\$ (27,932)	\$ (6,584)	\$ (8,742)	\$ (31,577)	\$ 2,634	\$ (37,092)	\$ (16,185)	\$ (134,561)
10 Net Monthly (Over)/Under Recovery Net of ADIT and Incentives (Line 8 - Line 9)	\$ (79,916)	\$ (1,293)	\$ 39,061	\$ 36,287	\$ (20,499)	\$ (81,078)	\$ (19,112)	\$ (25,374)	\$ (91,658)	\$ 7,645	\$ (107,666)	\$ (46,981)	\$ (390,584)
11 Cumulative Net Monthly (Over)/Under Recovery (Net of Incentives)	\$ (79,916)	\$ (81,209)	\$ (42,148)	\$ (5,861)	\$ (26,360)	\$ (107,438)	\$ (126,549)	\$ (151,923)	\$ (243,582)	\$ (235,937)	\$ (343,603)	\$ (390,584)	
12 Two Month Average Cumulative Net (Over)/Under Recovery (Net of Incentives)	\$ (39,958)	\$ (80,562)	\$ (61,678)	\$ (24,004)	\$ (16,110)	\$ (66,899)	\$ (116,993)	\$ (139,236)	\$ (197,752)	\$ (239,759)	\$ (289,770)	\$ (367,093)	
13 Carrying Cost on Cumulative (Over)/Under Recovery [1]	\$ (304)	\$ (613)	\$ (469)	\$ (183)	\$ (123)	\$ (509)	\$ (890)	\$ (1,060)	\$ (1,505)	\$ (1,825)	\$ (2,161)	\$ (2,738)	\$ (12,379)
14 DSM EE/EMF to be (refunded)/collected during the Rate Period (Line 7 + Line 13)	\$ (16,618)	\$ 86,351	\$ 149,005	\$ 152,421	\$ 74,683	\$ (9,015)	\$ 92,764	\$ 82,724	\$ (18,148)	\$ 120,869	\$ (151,609)	\$ (58,360)	\$ 505,067
Revenue Requirement for Financing Costs on Current Rider CE (Over) Recovery Net of Utility 15 Incentives and ADIT for Jan 2019 - Dec 2019 (Page 6, Line 5)													\$ (37,865)
Total DSM EE EMF Rider CE Revenue Requirement to be (Refunded)/Collected over the 16 February 1, 2021 - January 31, 2022 Rate Year													\$ 467,202

[1] Pre-tax Overall Weighted Rate of Return Jan - Oct, Approved in Docket No. E-22, Sub 532. Nov and Dec Approved in Docket No. E-22, Sub 562.

	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Total
No.	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Test Period
1 System Program Operating Expenses													
Air Conditioner Cycling Program													
Residential Lighting Program													
Residential Low Income Program (NC Only)													
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)													
Commercial Lighting Program (NC Trailing EMV Costs Only)													
Residential Heat Pump Tune-up Program													
Residential Heat Pump Upgrade Program													
Residential Duct Testing & Sealing Program													
Residential Home Energy Check-up Program													
Non-Residential Duct Testing & Sealing Program													
Non-Residential Energy Audit Program													
Non-Residential Lighting Systems and Controls													
Non-Residential Heating & Cooling Efficiency													
Non-Residential Window Film													
Residential Income & Age Qualifying Home Improvement Program													
Commercial Small Business Improvement													
Residential LED													
Non Residential Prescriptive													
2 Allocate System Common Costs to Programs													
Air Conditioner Cycling Program	\$ 28,947	\$ 31,571	\$ 26,669	\$ 24,136	\$ 24,236	\$ 48,690	\$ 44,700	\$ 23,604	\$ 34,315	\$ 39,603	\$ 34,905	\$ (38,496)	\$ 322,879
Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial Lighting Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Energy Check-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems and Controls	\$ 1,582	\$ 1,725	\$ 1,457	\$ 1,319	\$ 1,324	\$ 2,660	\$ 2,442	\$ 1,290	\$ 1,875	\$ 2,164	\$ 1,907	\$ (2,103)	\$ 17,640
Non-Residential Heating & Cooling Efficiency	\$ 222	\$ 242	\$ 205	\$ 185	\$ 186	\$ 374	\$ 343	\$ 181	\$ 263	\$ 304	\$ 268	\$ (295)	\$ 2,477
Non-Residential Window Film	\$ 421	\$ 460	\$ 388	\$ 351	\$ 353	\$ 709	\$ 651	\$ 344	\$ 500	\$ 577	\$ 508	\$ (560)	\$ 4,701
Residential Income & Age Qualifying Home Improvement Program	\$ 16,495	\$ 17,990	\$ 15,197	\$ 13,753	\$ 13,810	\$ 27,744	\$ 25,471	\$ 13,450	\$ 19,553	\$ 22,566	\$ 19,890	\$ (21,936)	\$ 183,983
Commercial Small Business Improvement	\$ 13,872	\$ 15,129	\$ 12,780	\$ 11,567	\$ 11,614	\$ 23,333	\$ 21,421	\$ 11,312	\$ 16,444	\$ 18,978	\$ 16,727	\$ (18,448)	\$ 154,730
Residential LED	\$ 725	\$ 791	\$ 668	\$ 604	\$ 607	\$ 1,219	\$ 1,120	\$ 591	\$ 859	\$ 992	\$ 874	\$ (964)	\$ 8,087
Non Residential Prescriptive	\$ 23,385	\$ 25,504	\$ 21,544	\$ 19,498	\$ 19,578	\$ 39,334	\$ 36,110	\$ 19,069	\$ 27,721	\$ 31,993	\$ 28,198	\$ (31,099)	\$ 260,834
3 System Operating Expenses Including Allocated Common Cost													
Air Conditioner Cycling Program													
Residential Lighting Program													
Residential Low Income Program (NC Only)													
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)													
Commercial Lighting Program (NC Trailing EMV Costs Only)													
Residential Heat Pump Tune-up Program													
Residential Heat Pump Upgrade Program													
Residential Duct Testing & Sealing Program													
Residential Home Energy Check-up Program													
Non-Residential Duct Testing & Sealing Program													
Non-Residential Energy Audit Program													
Non-Residential Lighting Systems and Control													
Non-Residential Heating & Cooling Efficiency													
Non-Residential Window Film													
Residential Income & Age Qualifying Home Improvement Program													
Commercial Small Business Improvemem													
Residential LED													
Non Residential Prescriptive													
4 Jurisdictional Assignment Factor:													
Air Conditioner Cycling Program	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	
Residential Lighting Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Residential Low Income Program (NC Only)	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
Commercial Lighting Program (NC Trailing EMV Costs Only)	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
Residential Heat Pump Tune-up Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Residential Heat Pump Upgrade Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Residential Duct Testing & Sealing Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Residential Home Energy Check-up Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Non-Residential Duct Testing & Sealing Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Non-Residential Energy Audit Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Non-Residential Lighting Systems and Controls	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
Non-Residential Heating & Cooling Efficiency	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
Non-Residential Window Film	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Residential Income & Age Qualifying Home Improvement Program	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Commercial Small Business Improvement	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	
Residential LED	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
Non Residential Prescriptive	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	5.8579%	

Dominion Energy North Carolina
Docket No. E-22, Sub 589
Actual Revenue Requirement for DSM/EE EMF Rider CE
For the Test Period January 1, 2019 - December 31, 2019

line no.		<u>Actual</u> <u>Jan 19</u>	<u>Actual</u> <u>Feb 19</u>	<u>Actual</u> <u>Mar 19</u>	<u>Actual</u> <u>Apr 19</u>	<u>Actual</u> <u>May 19</u>	<u>Actual</u> <u>Jun 19</u>	<u>Actual</u> <u>Jul 19</u>	<u>Actual</u> <u>Aug 19</u>	<u>Actual</u> <u>Sep 19</u>	<u>Actual</u> <u>Oct 19</u>	<u>Actual</u> <u>Nov 19</u>	<u>Actual</u> <u>Dec 19</u>	<u>Total</u> <u>Test Period</u>
5	NC Jurisdiction Operating Expenses (Line 3 Line 4)													
	Air Conditioner Cycling Program													
	Residential Lighting Program													
	Residential Low Income Program (NC Only)													
	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)													
	Commercial Lighting Program (NC Trailing EMV Costs Only)													
	Residential Heat Pump Tune-up Program													
	Residential Heat Pump Upgrade Program													
	Residential Duct Testing & Sealing Program													
	Residential Home Energy Check-up Program													
	Non-Residential Duct Testing & Sealing Program													
	Non-Residential Energy Audit Program													
	Non-Residential Lighting Systems and Controls													
	Non-Residential Heating & Cooling Efficiency													
	Non-Residential Window Film													
	Residential Income & Age Qualifying Home Improvement Program													
	Commercial Small Business Improvement													
	Residential LED													
	Non Residential Prescriptive													
6	NC Jurisdiction Property Taxes													
	Air Conditioner Cycling Program	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	\$ 686	8,228
7	NC Jurisdiction Depreciation Expense (Page 4, Line 2 Line 7)													
	Air Conditioner Cycling Program	\$ 5,581	\$ 5,580	\$ 5,583	\$ 5,585	\$ 5,585	\$ 5,587	\$ 5,584	\$ 5,585	\$ 5,581	\$ 5,582	\$ 5,753	\$ 5,413	67,000
8	NC Jurisdiction Excess Deferred Income Tax Amortization													
	Air Conditioner Cycling Program	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	\$ (354)	(4,243)
9	NC Jurisdiction Rate Base Costs (Page 4, Line 18)													
	Air Conditioner Cycling Program	\$ 3,389	\$ 3,361	\$ 3,333	\$ 3,309	\$ 3,285	\$ 3,262	\$ 3,239	\$ 3,216	\$ 3,190	\$ 3,152	\$ 3,078	\$ 3,053	38,867
10	NC Jurisdiction Net Lost Revenues (Page 5, Line 6)													
	Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Commercial Lighting Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Home Energy Check-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Non-Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Non-Residential Lighting Systems and Controls	\$ 35,503	\$ 37,092	\$ 38,719	\$ 41,812	\$ 42,313	\$ 45,364	\$ 53,549	\$ 50,923	\$ 50,095	\$ 46,443	\$ 2,090	\$ 2,358	446,260
	Non-Residential Heating & Cooling Efficiency	\$ 895	\$ 1,013	\$ 926	\$ 1,096	\$ 1,043	\$ 1,339	\$ 1,633	\$ 1,890	\$ 1,651	\$ 1,346	\$ 59	\$ 63	12,954
	Non-Residential Window Film	\$ 29	\$ 28	\$ 28	\$ 29	\$ 26	\$ 28	\$ 27	\$ 28	\$ 27	\$ 29	\$ -	\$ -	277
	Residential Income & Age Qualifying Home Improvement Program	\$ 1,049	\$ 1,049	\$ 1,051	\$ 1,061	\$ 1,061	\$ 1,313	\$ 1,562	\$ 1,572	\$ 1,633	\$ 1,361	\$ 268	\$ 267	13,248
	Commercial Small Business Improvement	\$ 5,800	\$ 6,602	\$ 6,658	\$ 7,145	\$ 6,863	\$ 8,017	\$ 8,102	\$ 8,081	\$ 8,698	\$ 7,966	\$ 1,093	\$ 1,140	76,164
	Residential LED	\$ 41,692	\$ 41,698	\$ 41,763	\$ 41,703	\$ 41,651	\$ 49,971	\$ 49,977	\$ 49,936	\$ 49,964	\$ 41,637	\$ -	\$ -	449,993
	Non Residential Prescriptive	\$ 1,386	\$ 1,790	\$ 1,999	\$ 2,071	\$ 2,020	\$ 2,128	\$ 2,155	\$ 2,187	\$ 2,260	\$ 2,119	\$ 52	\$ 50	20,216
11	NC Jurisdiction Program Performance Incentive (PPI)													
	Air Conditioner Cycling Program	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	\$ (308)	(3,699)
	Residential Lighting Program	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	\$ 3,388	40,653
	Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	\$ 435	5,215
	Commercial Lighting Program (NC Trailing EMV Costs Only)	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	\$ 2,647	31,764
	Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Heat Pump Upgrade Program	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	\$ 288	3,455
	Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Residential Home Energy Check-up Program	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	194
	Non-Residential Duct Testing & Sealing Program	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	\$ 5,543	66,517
	Non-Residential Energy Audit Program	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	6,319
	Non-Residential Lighting Systems and Controls	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	\$ 6,553	78,639
	Non-Residential Heating & Cooling Efficiency	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	\$ 3,269	39,223
	Non-Residential Window Film	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	\$ 673	8,079
	Residential Income & Age Qualifying Home Improvement Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	Commercial Small Business Improvement	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	\$ 1,690	20,283
	Residential LED	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	\$ 4,779	57,342
	Non Residential Prescriptive	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	\$ (993)	(11,912)
12	Revenue Requirement (Sum Lines 5 through 11)													
	Air Conditioner Cycling Program													
	Residential Lighting Program													
	Residential Low Income Program (NC Only)													
	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)													
	Commercial Lighting Program (NC Trailing EMV Costs Only)													
	Residential Heat Pump Tune-up Program													
	Residential Heat Pump Upgrade Program													
	Residential Duct Testing & Sealing Program													
	Residential Home Energy Check-up Program													
	Non-Residential Duct Testing & Sealing Program													
	Non-Residential Energy Audit Program													
	Non-Residential Lighting Systems and Controls													
	Non-Residential Heating & Cooling Efficiency													
	Non-Residential Window Film													
	Residential Income & Age Qualifying Home Improvement Program													
	Commercial Small Business Improvement													
	Residential LED													
	Non Residential Prescriptive													
13	Total Revenue Requirement All Programs	\$ 251,702	\$ 327,898	\$ 337,523	\$ 315,082	\$ 249,778	\$ 291,159	\$ 310,451	\$ 292,805	\$ 283,669	\$ 263,503	\$ 155,143	\$ 150,213	\$ 3,228,926

Dominion Energy North Carolina
Docket No. E-22, Sub 589
Rate Base Costs For the Test Period January 1, 2019 - December 31, 2019

line no.	<u>Actual</u> <u>Dec-18</u>	<u>Actual</u> <u>Jan-19</u>	<u>Actual</u> <u>Feb-19</u>	<u>Actual</u> <u>Mar-19</u>	<u>Actual</u> <u>Apr-19</u>	<u>Actual</u> <u>May-19</u>	<u>Actual</u> <u>Jun-19</u>	<u>Actual</u> <u>Jul-19</u>	<u>Actual</u> <u>Aug-19</u>	<u>Actual</u> <u>Sep-19</u>	<u>Actual</u> <u>Oct-19</u>	<u>Actual</u> <u>Nov-19</u>	<u>Actual</u> <u>Dec-19</u>
1 System Level Plant In Service Air Conditioner Cycling Program	\$ 19,590,319	\$ 19,598,194	\$ 19,602,844	\$ 19,616,944	\$ 19,637,269	\$ 19,656,769	\$ 19,683,469	\$ 19,701,544	\$ 19,723,144	\$ 19,731,694	\$ 19,742,344	\$ 19,756,369	\$ 19,770,019
2 System Depreciation Expense Air Conditioner Cycling Program	\$ 116,450	\$ 116,408	\$ 116,389	\$ 116,445	\$ 116,482	\$ 116,477	\$ 116,520	\$ 116,469	\$ 116,490	\$ 116,412	\$ 116,424	\$ 119,988	\$ 112,899
3 System Accumulated Depreciation Air Conditioner Cycling Program	\$ 7,892,029	\$ 8,008,437	\$ 8,124,825	\$ 8,241,270	\$ 8,357,752	\$ 8,474,230	\$ 8,590,750	\$ 8,707,218	\$ 8,823,708	\$ 8,940,120	\$ 9,056,545	\$ 9,176,532	\$ 9,289,431
4 Cumulative System Net Plant (Line 1 - Line 3) Air Conditioner Cycling Program	\$ 11,698,290	\$ 11,589,757	\$ 11,478,019	\$ 11,375,674	\$ 11,279,517	\$ 11,182,539	\$ 11,092,719	\$ 10,994,326	\$ 10,899,436	\$ 10,791,574	\$ 10,685,800	\$ 10,579,837	\$ 10,480,588
5 System Accumulated Deferred Income Tax Air Conditioner Cycling Program	\$ (2,411,797)	\$ (2,376,508)	\$ (2,344,830)	\$ (2,313,153)	\$ (2,281,476)	\$ (2,249,797)	\$ (2,218,120)	\$ (2,186,441)	\$ (2,154,764)	\$ (2,123,087)	\$ (2,146,767)	\$ (2,115,089)	\$ (2,083,412)
6 Monthly Rate Base System (Line 4 + Line 5): Air Conditioner Cycling Program	\$ 9,286,493	\$ 9,213,249	\$ 9,133,188	\$ 9,062,521	\$ 8,998,041	\$ 8,932,743	\$ 8,874,599	\$ 8,807,884	\$ 8,744,672	\$ 8,668,487	\$ 8,539,033	\$ 8,464,748	\$ 8,397,176
7 Jurisdictional Allocation Factor Air Conditioner Cycling Program	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%	4.7946%
8 North Carolina Rate Base (Line 6 x Line 7) Air Conditioner Cycling Program	\$ 445,250	\$ 441,738	\$ 437,900	\$ 434,512	\$ 431,420	\$ 428,289	\$ 425,502	\$ 422,303	\$ 419,272	\$ 415,619	\$ 409,412	\$ 405,851	\$ 402,611
9 North Carolina Rate Base (2 month average)		\$ 443,494	\$ 439,819	\$ 436,206	\$ 432,966	\$ 429,855	\$ 426,895	\$ 423,902	\$ 420,787	\$ 417,446	\$ 412,516	\$ 407,632	\$ 404,231
10 Cost of Capital (Page 7, Line 4/12)		0.6126%	0.6126%	0.6126%	0.6126%	0.6126%	0.6126%	0.6126%	0.6126%	0.6126%	0.6126%	0.6059%	0.6059%
11 Net Operating Income (Line 9 * Line 10)		\$ 2,717	\$ 2,694	\$ 2,672	\$ 2,652	\$ 2,633	\$ 2,615	\$ 2,597	\$ 2,578	\$ 2,557	\$ 2,527	\$ 2,470	\$ 2,449
Less Interest Expense LTD													
12 Weighted Cost of Debt (Page 7, Line 1/12)		0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%	0.1725%
13 Rate Base (2 Month Average = Line 9)		\$ 443,494	\$ 439,819	\$ 436,206	\$ 432,966	\$ 429,855	\$ 426,895	\$ 423,902	\$ 420,787	\$ 417,446	\$ 412,516	\$ 407,632	\$ 404,231
14 Revenue Requirement - Interest Expense on Debt		\$ 765	\$ 758	\$ 752	\$ 747	\$ 741	\$ 736	\$ 731	\$ 726	\$ 720	\$ 711	\$ 703	\$ 697
15 Net Income Related to Common Equity (Line 11 - Line 14)		\$ 1,952	\$ 1,936	\$ 1,920	\$ 1,905	\$ 1,892	\$ 1,879	\$ 1,866	\$ 1,852	\$ 1,837	\$ 1,815	\$ 1,767	\$ 1,752
16 North Carolina Jurisdictional Income Tax Gross-up Factor		74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%	74.38%
17 Revenue Requirement - Common Equity Including Income Taxes		\$ 2,624	\$ 2,602	\$ 2,581	\$ 2,562	\$ 2,544	\$ 2,526	\$ 2,508	\$ 2,490	\$ 2,470	\$ 2,441	\$ 2,375	\$ 2,356
18 Revenue Requirement on Rate Base (Line 14 + Line 17)		\$ 3,389	\$ 3,361	\$ 3,333	\$ 3,309	\$ 3,285	\$ 3,262	\$ 3,239	\$ 3,216	\$ 3,190	\$ 3,152	\$ 3,078	\$ 3,053

Dominion Energy North Carolina
Docket No. E-22, Sub 589
Actual Net Lost Revenues
For the Test Period January 1, 2019 - December 31, 2019

line no.	Actual Jan-19	Actual Feb-19	Actual Mar-19	Actual Apr-19	Actual May-19	Actual Jun-19	Actual Jul-19	Actual Aug-19	Actual Sep-19	Actual Oct-19	Actual Nov-19	Actual Dec-19	Total Test Period
1 Jurisdictional Energy Reductions (kWh)													
Residential Lighting Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Low Income Program (NC Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial Lighting Program (NC Trailing EMV Costs Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Heat Pump Tune-up Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Heat Pump Upgrade Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Duct Testing & Sealing Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Home Energy Check-up Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Duct Testing & Sealing Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Energy Audit Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Lighting Systems and Controls	511,807	537,496	582,218	628,208	647,521	653,115	669,534	669,885	673,622	681,756	33,122	35,444	6,323,729
Non-Residential Heating & Cooling Efficiency	18,456	18,456	18,466	22,041	22,041	22,041	22,041	22,041	23,303	23,303	1,262	1,262	214,711
Non-Residential Window Film	301	301	301	301	301	301	301	301	301	301	-	-	3,011
Residential Income & Age Qualifying Home Improvement Program	14,460	14,460	14,460	14,634	14,634	15,094	17,972	18,079	18,785	18,785	3,691	3,691	168,745
Commercial Small Business Improvement	97,631	110,205	110,301	118,608	118,608	125,086	127,890	127,890	137,369	137,690	18,784	19,277	1,249,339
Residential LED	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	576,111	-	-	5,761,113
Non Residential Prescriptive	21,288	26,445	29,263	31,026	31,059	31,059	31,059	31,059	31,059	31,784	785	785	296,671
2 Billing Rate													
Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial Lighting Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Energy Check-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems and Controls	\$ 0.06937	\$ 0.06901	\$ 0.06639	\$ 0.06656	\$ 0.06536	\$ 0.06948	\$ 0.08000	\$ 0.07605	\$ 0.07440	\$ 0.06818	\$ 0.06314	\$ 0.06667	\$ 0.06667
Non-Residential Heating & Cooling Efficiency	\$ 0.04849	\$ 0.05487	\$ 0.05005	\$ 0.04975	\$ 0.04732	\$ 0.06077	\$ 0.07411	\$ 0.08579	\$ 0.07089	\$ 0.05781	\$ 0.04650	\$ 0.05014	\$ 0.05014
Non-Residential Window Film	\$ 0.09573	\$ 0.09142	\$ 0.09296	\$ 0.09498	\$ 0.08475	\$ 0.09301	\$ 0.09064	\$ 0.09248	\$ 0.08828	\$ 0.09575	\$ 0.08079	\$ 0.08079	\$ 0.08079
Residential Income & Age Qualifying Home Improvement Program	\$ 0.07258	\$ 0.07258	\$ 0.07254	\$ 0.07248	\$ 0.07249	\$ 0.08704	\$ 0.08696	\$ 0.08699	\$ 0.08699	\$ 0.07252	\$ 0.07257	\$ 0.07252	\$ 0.07252
Commercial Small Business Improvement	\$ 0.05941	\$ 0.05991	\$ 0.06025	\$ 0.06024	\$ 0.05788	\$ 0.06411	\$ 0.06337	\$ 0.06322	\$ 0.06335	\$ 0.05791	\$ 0.05822	\$ 0.05929	\$ 0.05929
Residential LED	\$ 0.07237	\$ 0.07238	\$ 0.07238	\$ 0.07239	\$ 0.07231	\$ 0.08676	\$ 0.08677	\$ 0.08671	\$ 0.08676	\$ 0.07233	\$ 0.07238	\$ 0.07238	\$ 0.07238
Non Residential Prescriptive	\$ 0.06509	\$ 0.06768	\$ 0.06819	\$ 0.06675	\$ 0.06504	\$ 0.06854	\$ 0.06942	\$ 0.07044	\$ 0.07280	\$ 0.06673	\$ 0.06660	\$ 0.06386	\$ 0.06386
3 Jurisdictional Lost Revenues (Line 1 x Line 2)													
Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial Lighting Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Energy Check-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems and Controls	\$ 35,504	\$ 37,093	\$ 38,653	\$ 41,814	\$ 42,322	\$ 45,378	\$ 53,563	\$ 50,945	\$ 50,118	\$ 46,482	\$ 2,091	\$ 2,363	\$ 446,326
Non-Residential Heating & Cooling Efficiency	\$ 895	\$ 1,013	\$ 924	\$ 1,097	\$ 1,043	\$ 1,339	\$ 1,633	\$ 1,891	\$ 1,652	\$ 1,347	\$ 59	\$ 63	\$ 12,956
Non-Residential Window Film	\$ 29	\$ 28	\$ 28	\$ 29	\$ 26	\$ 28	\$ 27	\$ 28	\$ 27	\$ 29	\$ -	\$ -	\$ 277
Residential Income & Age Qualifying Home Improvement Program	\$ 1,049	\$ 1,049	\$ 1,049	\$ 1,061	\$ 1,061	\$ 1,314	\$ 1,563	\$ 1,573	\$ 1,634	\$ 1,362	\$ 268	\$ 268	\$ 13,251
Commercial Small Business Improvement	\$ 5,800	\$ 6,602	\$ 6,646	\$ 7,145	\$ 6,865	\$ 8,019	\$ 8,104	\$ 8,085	\$ 8,702	\$ 7,974	\$ 1,094	\$ 1,143	\$ 76,180
Residential LED	\$ 41,693	\$ 41,699	\$ 41,699	\$ 41,705	\$ 41,659	\$ 49,983	\$ 49,989	\$ 49,955	\$ 49,983	\$ 41,670	\$ -	\$ -	\$ 450,035
Non Residential Prescriptive	\$ 1,386	\$ 1,790	\$ 1,995	\$ 2,071	\$ 2,020	\$ 2,129	\$ 2,156	\$ 2,188	\$ 2,261	\$ 2,121	\$ 52	\$ 50	\$ 20,219
4 Variable O&M Savings													
	\$ (2)	\$ (3)	\$ 149	\$ (3)	\$ (19)	\$ (31)	\$ (30)	\$ (46)	\$ (50)	\$ (84)	\$ (3)	\$ (9)	\$ (130)
5 Found Revenues													
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 Net Lost Revenues (Line 3 + Line 4 + Line 5)													
Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial Lighting Program (NC Trailing EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Energy Check-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Duct Testing & Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems and Controls	\$ 35,503	\$ 37,092	\$ 38,719	\$ 41,812	\$ 42,313	\$ 45,364	\$ 53,549	\$ 50,923	\$ 50,095	\$ 46,443	\$ 2,090	\$ 2,358	\$ 446,260
Non-Residential Heating & Cooling Efficiency	\$ 895	\$ 1,013	\$ 926	\$ 1,096	\$ 1,043	\$ 1,339	\$ 1,633	\$ 1,890	\$ 1,651	\$ 1,346	\$ 59	\$ 63	\$ 12,954
Non-Residential Window Film	\$ 29	\$ 28	\$ 28	\$ 29	\$ 26	\$ 28	\$ 27	\$ 28	\$ 27	\$ 29	\$ -	\$ -	\$ 277
Residential Income & Age Qualifying Home Improvement Program	\$ 1,049	\$ 1,049	\$ 1,051	\$ 1,061	\$ 1,061	\$ 1,313	\$ 1,562	\$ 1,572	\$ 1,633	\$ 1,361	\$ 268	\$ 267	\$ 13,248
Commercial Small Business Improvement	\$ 5,800	\$ 6,602	\$ 6,658	\$ 7,145	\$ 6,863	\$ 8,017	\$ 8,102	\$ 8,081	\$ 8,698	\$ 7,966	\$ 1,093	\$ 1,140	\$ 76,164
Residential LED	\$ 41,692	\$ 41,698	\$ 41,763	\$ 41,703	\$ 41,651	\$ 49,971	\$ 49,977	\$ 49,936	\$ 49,964	\$ 41,637	\$ -	\$ -	\$ 449,993
Non Residential Prescriptive	\$ 1,386	\$ 1,790	\$ 1,999	\$ 2,071	\$ 2,020	\$ 2,128	\$ 2,155	\$ 2,187	\$ 2,260	\$ 2,119	\$ 52	\$ 50	\$ 20,216
Total Lost Revenues All Programs	\$ 86,354	\$ 89,271	\$ 91,143	\$ 94,917	\$ 94,975	\$ 108,160	\$ 117,006	\$ 114,618	\$ 114,327	\$ 100,902	\$ 3,561	\$ 3,878	\$ 1,019,113

Dominion Energy North Carolina
Docket No. E-22, Sub 589
Refund of Financing Costs on Current Rider CE EMF Over-Recovery Over the Period of January 2019 - December 2019
To Be Refunded Over the Rate Period February 1, 2021 - January 31, 2022

line
no.

1	Test Period (Over)/Under Recovery - Net of Utility Incentives (Net of ADIT), R8-69(b)(6) (Shedule 2, Page 1, Line 10)	\$ (390,584)
2	Overall Cost of Capital Approved in Docket No. E-22, Sub 562 Grossed Up for Taxes	8.95%
3	Monthly Interest Rate (Line 2/12)	0.7457%
4	Number of Months Refund is Outstanding (January 2020 - January 2021)	13
5	Interest to be Paid on Test Period (Over) Recovery Net of ADIT	\$ (37,865)

**Dominion Energy North Carolina
Docket No. E-22, Sub 589**

VIRGINIA ELECTRIC AND POWER COMPANY

**Cost of Capital and Capital Structure
13-Month Average
As of December 31, 2019**

line no.	Description	Average Capitalization	Average Capitalization Ratio	Average Embedded Cost%	Overall Cost Rate
1	Total Long-Term Debt	11,618,992	46.654%	4.4356%	2.069%
2	Total Preferred Stock	0	0.000%	0.0000%	0.000%
3	Common Equity	13,285,343	53.346%	9.9000%	5.281%
4	Total	<u>\$24,904,335</u>	<u>100.000%</u>		<u>7.351%</u>

VIRGINIA ELECTRIC AND POWER COMPANY

**Cost of Capital and Capital Structure
13-Month Average
As of December 31, 2019**

	Description	Average Capitalization	Average Capitalization Ratio	Average Embedded Cost%	Overall Cost Rate
5	Total Long-Term Debt	11,618,992	46.654%	4.4356%	2.069%
6	Total Preferred Stock	0	0.000%	0.0000%	0.000%
7	Common Equity	13,285,343	53.346%	9.7500%	5.201%
8	Total	<u>\$24,904,335</u>	<u>100.000%</u>		<u>7.271%</u>

Virginia Power
Estimated ADIT
Dec 2018 - Jan 2022

Year	Month	ADIT
2018	Dec	(2,411,797)
2019	Jan	(2,376,508)
2019	Feb	(2,344,830)
2019	Mar	(2,313,153)
2019	Apr	(2,281,476)
2019	May	(2,249,797)
2019	Jun	(2,218,120)
2019	Jul	(2,186,441)
2019	Aug	(2,154,764)
2019	Sep	(2,123,087)
2019	Oct	(2,146,767)
2019	Nov	(2,115,089)
2019	Dec	(2,083,412)
2020	Jan	(2,051,048)
2020	Feb	(2,021,017)
2020	Mar	(1,993,569)
2020	Apr	(1,968,622)
2020	May	(1,946,255)
2020	Jun	(1,926,388)
2020	Jul	(1,909,103)
2020	Aug	(1,894,402)
2020	Sep	(1,882,199)
2020	Oct	(1,872,580)
2020	Nov	(1,865,460)
2020	Dec	(1,860,921)
2021	Jan	(1,858,916)
2021	Feb	(1,828,420)
2021	Mar	(1,800,538)
2021	Apr	(1,775,182)
2021	May	(1,752,442)
2021	Jun	(1,732,229)
2021	Jul	(1,714,630)
2021	Aug	(1,699,643)
2021	Sep	(1,687,185)
2021	Oct	(1,677,341)
2021	Nov	(1,670,026)
2021	Dec	(1,665,323)
2022	Jan	(1,638,907)

Virginia Power
State Apportionment
2019

		<u>Non Current Def</u>
NC	0.04530100	
Current	2.500000%	
Def Current	2.500000%	
Non Current	2.500000%	
	0.113253%	0.00113253
WV	0.02079200	
Current	6.500000%	
Def Current	6.500000%	
Non Current	6.500000%	
	0.135148%	0.00135148
VA	0.93403700	
Current	6.000000%	
Def Current	6.000000%	
Non Current	6.000000%	0.05604222
DC	0.00000000	
Current	8.250000%	
Def Current	8.250000%	
Non Current	8.250000%	0.00000000
	State Rate	0.05852623
	State Tax Effect	0.04623572
	Federal Rate	0.21000000
	Transactional Rate	0.25623572
	fed effect of state	-0.01229051

**Dominion Energy North Carolina
Docket No. E-22, Sub 589
Monthly Revenues - Rider C
For the Test Period January 1, 2019 - December 31, 2019**

Revenue Class	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	2019 Totals
Residential	\$ 127,850	\$ 129,266	\$ 74,112	\$ 56,472	\$ 70,143	\$ 135,536	\$ 76,305	\$ 98,486	\$ 80,759	\$ 58,745	\$ 71,673	\$ 91,854	\$ 1,071,201
Commercial	\$ 100,481	\$ 72,910	\$ 77,161	\$ 74,493	\$ 93,172	\$ 80,402	\$ 122,852	\$ 96,629	\$ 105,052	\$ 96,095	\$ 86,581	\$ 87,596	\$ 1,093,423
Industrial	\$ 24,072	\$ 24,738	\$ 22,207	\$ 18,630	\$ (2,279)	\$ 67,407	\$ 1,479	\$ (5,485)	\$ 98,676	\$ (28,606)	\$ 133,336	\$ 13,837	\$ 368,011
COV	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Co/Muni	\$ 15,613	\$ 14,020	\$ 14,570	\$ 12,883	\$ 13,937	\$ 16,320	\$ 16,161	\$ 19,392	\$ 15,824	\$ 14,575	\$ 13,001	\$ 12,548	\$ 178,844
St & Traffic (COVA)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Federal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue by Month	\$ 268,016	\$ 240,935	\$ 188,049	\$ 162,478	\$ 174,973	\$ 299,665	\$ 216,797	\$ 209,021	\$ 300,312	\$ 140,809	\$ 304,591	\$ 205,835	\$ 2,711,479

**DIRECT TESTIMONY
OF
ROBERT E. MILLER
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 589**

1 **Q. Please state your name, position, and business address with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Robert E. Miller, and I am a Regulatory Specialist for Dominion
5 Energy North Carolina. My business address is 120 Tredegar Street,
6 Richmond, Virginia 23219. A statement of my background and qualifications
7 is attached as Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for the preparation of the Company’s cost of service studies,
10 distribution allocation factors, and minimum system analysis.

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

12 A. My testimony supports the Company’s request to recover all reasonable and
13 prudent costs incurred in adopting and implementing the Company’s portfolio
14 of North Carolina demand-side management (“DSM”) and energy efficiency
15 (“EE”) programs (“DSM/EE Programs” or “Programs”) and utility incentives,
16 through its updated Rider C, as well as the Company’s experience
17 modification factor (“EMF”) rider, Rider CE (“Application”). The purpose of
18 my testimony is to explain the jurisdiction and customer class responsibility of

1 costs for the approved and proposed DSM/EE Programs for which the
2 Company seeks approval for cost recovery in this proceeding.

3 **Q. Mr. Miller, are you sponsoring any exhibits or schedules in connection**
4 **with your testimony?**

5 A. Yes. Company Exhibit REM-1, consisting of Schedules 1-4 (Schedules 1 and
6 3 provided in public and confidential versions filed under seal) has been
7 prepared under my direction and supervision and is accurate and complete to
8 the best of my knowledge and belief. Schedules 1-4 support the jurisdictional
9 allocation and customer class allocation of DSM/EE costs for the development
10 of Rider C and Rider CE, as follows:

- 11 • Schedule 1 shows the allocation or assignment of system-level Common
12 Costs to each individual DSM and EE Program and the determination of
13 jurisdictional responsibility of system costs for approved Programs,
14 including allocated Common Costs.
- 15 • Schedule 2 shows the factors for allocating total Program revenue
16 requirements to customer classes.
- 17 • Schedule 3 shows how total Program revenue requirements are allocated
18 to customer classes.
- 19 • Schedule 4 provides the documents to be filed in accordance with NCUC
20 Rule R8-69(f)(1)(ii)(b) and NCUC Rule R8-69(f)(1)(viii).

1 **Q. Before describing how you propose to determine the jurisdictional and**
2 **customer class responsibility for DSM/EE costs, is the manner you**
3 **propose consistent with the allocation approach approved in last year’s**
4 **DSM/EE rider proceeding, Docket No. E-22, Sub 577?**

5 **A.** Yes. The methodology that I will describe is consistent with the methodology
6 approved by the North Carolina Utilities Commission’s (“Commission”)
7 January 17, 2020 Order in the Company’s most recent cost recovery
8 proceeding in Docket No. E-22, Sub 577. This methodology is also consistent
9 with the updated Cost Recovery and Incentive Mechanism (“Mechanism”)
10 approved by the Commission’s May 22, 2017 Order issued in Docket No. E-
11 22, Sub 464.

12 **I. ALLOCATION OF COMMON COSTS TO**
13 **DSM/EE PROGRAMS**

14 **Q.** **Please explain Common Costs and how such costs are allocated to the**
15 **DSM and EE Programs.**

16 **A.** Certain costs including internal labor and related costs, program marketing
17 costs, and information gathering costs are not directly attributable to specific
18 Programs. The Company characterizes these costs as “Common Costs,”
19 which are needed to design, implement, and operate the Programs. The DSM
20 and EE Programs are administered in the Company’s Virginia and North
21 Carolina service territories that comprise the PJM designated DOM Zone.
22 Therefore, these costs will be incurred and recovered on the DOM Zone
23 system-level basis.

1 According to Paragraphs 29 – 30 of the revised Mechanism, system-level
2 Common Costs are to be allocated to each DSM/EE Program on the basis of
3 the estimated relative operating costs of each individual program including
4 O&M, depreciation, property taxes, and insurance expenses.

5 Schedule 1, Page 1 provides a general description of how system-level
6 Common Costs are allocated to each Program. Page 2 provides the allocation
7 of these costs to the Programs for the January 1, 2019, to December 31, 2019
8 test period (“Test Period”) through the EMF for recovery through Rider CE.
9 Page 3 provides the allocation of these costs for the projected calendar year
10 2020 to be recovered during the February 1, 2020, to January 31, 2021 rate
11 period (“Rate Period”) through Rider C.

12 **II. JURISDICTIONAL ALLOCATION OF**
13 **PROGRAM COSTS**

14 **Q. Please describe how the system costs for approved DSM/EE Programs,**
15 **including allocated Common Costs, will be allocated to the North**
16 **Carolina jurisdiction according to the Mechanism.**

17 A. System-level costs for the approved DSM/EE Programs, including allocated
18 Common Costs, are allocated or assigned to the North Carolina jurisdiction
19 according to Paragraph 30 of the Mechanism. Paragraph 30 provides for the
20 cost of DSM programs to be allocated on the basis of the Company’s
21 coincident peak and for the cost of EE programs to be allocated on the basis of
22 energy. In the case of both the DSM and EE allocation factors, the following
23 retail jurisdictions are included in the development of each factor: (i) the

1 North Carolina retail jurisdiction; (ii) the Virginia retail jurisdiction; and
2 (iii) Virginia non-jurisdictional customers excluding contract classes that have
3 elected not to participate and excluding customers in participating contract
4 classes that have elected not to participate and excluding customers in
5 participating contract classes that are exempt or have opted out.

6 Schedule 1, Page 1 provides a general description of how DSM/EE costs are
7 allocated or assigned to the North Carolina jurisdiction. Schedule 1, Page 4
8 provides the development of jurisdictional allocation factors for DSM and EE
9 Programs. Coincident peak and energy allocation factors are calculated as
10 described above to allocate costs from the system to the North Carolina retail
11 jurisdiction. For the updated EMF Test Period, the allocation factors for
12 determining jurisdictional costs are based on the 12 months ended December
13 31, 2019, and are shown on Schedule 1, Page 4. For the Rate Period, the
14 allocation factors are also based on the 12 months ended December 31, 2019,
15 and are also shown on Schedule 1, Page 4.

16 **III. ASSIGNMENT AND ALLOCATION OF**
17 **JURISDICTIONAL COSTS TO CUSTOMER CLASSES**

18 **Q. Once costs have been determined for the North Carolina jurisdiction,**
19 **how will the revenue requirements be assigned or allocated to the**
20 **customer classes according to the Mechanism?**

21 A. Retail jurisdictional costs for the Company's DSM/EE Program portfolio,
22 including allocated Common Costs, shall be assigned or allocated to North
23 Carolina retail customer classes based on the particular classes at which each

1 program is targeted according to Paragraph 33 of the Mechanism. The cost of
2 residential Programs is assigned to the residential class as shown in
3 Schedule 2, Page 1. The costs of non-residential Programs are allocated to
4 targeted non-residential customer classes using either a coincident peak-based
5 or an energy-based allocation factor as shown in Schedule 2, Page 1.

6 Schedule 2, Page 2 provides the development of the coincident peak and
7 energy class allocation factors for the non-residential Programs. For the
8 updated EMF, the allocation factors for determining customer class
9 responsibility for jurisdictional costs are based on the 12 months ended
10 December 31, 2019. For the projected Rate Period, the allocation factors for
11 determining customer class responsibility for jurisdictional costs are also
12 based on the 12 months ended December 31, 2019, and are shown on
13 Schedule 2, Page 2. For residential Programs, the responsibility for costs will
14 be assigned 100% to the residential class, so neither a coincident peak-based
15 nor an energy-based class allocation factor is needed.

16 **Q. How will the Test Period and Rate Period revenue requirements to be**
17 **recovered through the EMF Rider CE and Rider C be assigned or**
18 **allocated for the residential Programs to the customer classes?**

19 A. The total amount to be recovered through the DSM/EE EMF Rider CE for the
20 residential Programs will be assigned to the residential class. The total
21 revenue requirement for DSM/EE Programs Rider C for the residential
22 Programs will also be assigned to the residential class for cost recovery

1 purposes. Please refer to Schedule 2, Page 1 for further explanation of this
2 assignment.

3 **Q. How will the Test Period and Rate Period revenue requirements to be**
4 **recovered through the EMF Rider CE and Rider C be assigned or**
5 **allocated for the non-residential Programs to the customer classes?**

6 A. The total amount to be recovered through the DSM/EE EMF Rider CE for the
7 non-residential Programs will be allocated to the non-residential customer
8 classes eligible to participate in such Programs. The total revenue
9 requirement for DSM/EE Programs Rider C for the non-residential Programs
10 will also be allocated to the non-residential customer classes eligible to
11 participate in such Programs.

12 Regarding the development of allocation factors, these Programs are not
13 limited to commercial customers as other non-residential customers, including
14 industrial customers, are eligible to participate. The allocation factors used to
15 allocate these revenue requirements will be adjusted for customers who elect
16 to opt out as provided for under N.C.G.S. § 62-133.9(f). In addition, no costs
17 will be allocated to the Street and Outdoor Lighting class or the Traffic
18 Lighting class since such classes will not be targeted by these Programs.
19 Neither class will experience a reduction in energy consumption or demand
20 resulting from these Programs and will, therefore, not experience a benefit due
21 to a change in their production demand allocation factor if all other things
22 remain the same. Other non-residential customer classes that do participate in
23 the Programs will experience reductions in energy consumption and/or

1 demand and may receive a benefit due to a change in their production demand
2 allocation factor. It is appropriate to not allocate any costs to customer classes
3 that will not benefit from participation in a program or programs.

4 Page 1 of my Schedule 2 summarizes the factors used to allocate the costs of
5 the DSM/EE commercial Programs to the customer classes.

6 **Q. Do you have a schedule which shows the allocation to the customer classes**
7 **of the amounts to be recovered through the DSM/EE EMF Rider CE and**
8 **DSM/EE Programs Rider C?**

9 A. Yes. Schedule 3, Pages 1 and 2 provide the allocation to the customer classes
10 of the amount that needs to be collected for the Test Period true up through
11 the DSM/EE EMF Rider CE. Schedule 3, Pages 3 and 4 provide the
12 allocation of the revenue requirement to the customer classes for recovery
13 during the Rate Period through DSM/EE Programs Rider C. These total
14 revenue requirements are obtained from Company Witness Elizabeth B.
15 Lecky's Schedule 1 and Schedule 2 for Rider C and Rider CE, respectively.

16 **Q. To summarize, what is the total revenue requirement for DSM/EE**
17 **Programs by customer class for recovery under the proposed DSM/EE**
18 **EMF Rider CE and DSM/EE Rider C?**

19 A. Schedule 3, Page 2, line 9 provides the amount to be recovered from each
20 customer class under the proposed DSM/EE EMF Rider CE. Schedule 3,
21 Page 4, line 2 provides the total revenue requirement by customer class under
22 the proposed DSM/EE Rider C.

1 **Q. Please outline what is included in Schedule 4 of your testimony.**

2 A. In accordance with NCUC Rule R8-69(f)(1)(ii)(b), the total cost that the

3 utility does not expect to incur during the Rate Period as a direct result of the

4 DSM/EE measures in the aggregate to the North Carolina jurisdiction are

5 shown on Pages 1 and 2 of my Schedule 4. Expenses not expected to be

6 incurred are provided by Company Witness Deanna R. Kesler. In this

7 Schedule, I provide the North Carolina jurisdictional allocation factors that

8 were produced from the Company's most recent Summer Winter Peak and

9 Average allocation factor methodology, as used in the Company's North

10 Carolina 4 Jurisdiction cost of service study for the year ending December 31,

11 2019. These are the factors that would be used to allocate these costs had they

12 been incurred. As shown on Schedule 4, Pages 1 and 2, separate demand and

13 energy weighted factors should be used to allocate the demand-related

14 expenses not expected to be incurred and the energy-related expenses not

15 expected to be incurred, respectively. These factors are Factor 1 (demand-

16 weighted) and Factor 3 (energy).

17 Also included in Schedule 4 are Pages 3 through 5, which are workpapers

18 filed in accordance with NCUC Rule R8-69(f)(1)(viii). These pages show the

19 development of allocation factors used to allocate system expenses not

20 expected to be incurred during the Rate Period (Pages 4 and 5).

21 **Q. Does this conclude your direct testimony?**

22 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
ROBERT E. MILLER**

Robert E. Miller received a Bachelor of Arts degree in English Literature and Philosophy from the University of Virginia in 2007. He received a post-baccalaureate undergraduate certificate in accounting from Virginia Commonwealth University in 2015. Mr. Miller is also a Certified Public Accountant in Virginia.

Mr. Miller joined the Customer Rates Department in 2015, beginning as an intern and then becoming a full time employee as a Regulatory Analyst I in 2016, working with the Company's cost of service model. In June of 2020, Mr. Miller was promoted to his current position as a Regulatory Specialist. His job duties include calculation of distribution plant-related allocation factors and preparation of cost of service studies for the Company's Virginia and North Carolina regulated customers and the Company's Non-Jurisdictional customers. Mr. Miller has previously presented testimony before the North Carolina Utilities Commission.

DOMINION ENERGY NORTH CAROLINA
ASSIGNMENT AND ALLOCATION OF COSTS TO NORTH CAROLINA JURISDICTION
DOCKET NO. E-22, SUB 589

<u>Line</u>	<u>Basis for Determining Cost for North Carolina Jurisdiction</u>				
	<u>Name of System Program</u>	<u>Program Category</u>	<u>Assignment</u>	<u>Allocation to NC Juris</u>	<u>If Allocated, Allocation Factor</u>
North Carolina Programs (2)					
1	Air Conditioner Cycling Program	Peak-Clipping		X	1CP
2	Residential Income and Age Qualifying Home Improvement Program	Energy Efficiency		X	Energy
3	Qualifying Small Business Improvement Program	Energy Efficiency		X	Energy
4	Residential LED Lighting - NC Only	Energy Efficiency	X		
5	Non-Residential Prescriptive Program	Energy Efficiency		X	Energy
6	Residential Appliance Recycling Program	Energy Efficiency		X	Energy
7	Residential Efficient Products Marketplace Program	Energy Efficiency		X	Energy
8	Residential Home Energy Assessment Program	Energy Efficiency		X	Energy
9	Non-Residential Lighting Systems & Controls Program	Energy Efficiency		X	Energy
10	Non-Residential Heating & Cooling Efficiency Program	Energy Efficiency		X	Energy
11	Non-Residential Window Film Program	Energy Efficiency		X	Energy
12	Non-Residential Small Manufacturing Program	Energy Efficiency		X	Energy
13	Non-Residential Office Program	Energy Efficiency		X	Energy
14	Non-North Carolina Programs (3)	Non-North Carolina Programs			
15	Common Costs	All Programs	X (1)	X (1)	<u>Σ Prog Cost \$</u> <u>Σ Sys Prog Cost \$</u>

Notes

1) Allocation of System-level Common Costs to each Program on the basis of individual Program Costs to System Program Costs. All common costs for NC-only programs are assigned to NC.

2) For the projected rate period, refer to Company Exhibit EBL-1, Rider C, Schedule 1, Page 2, Line 4.

3) For the projected rate period, refer to Company Exhibit JEB-1, Schedule 4, Page 1

**DOMINION ENERGY NORTH CAROLINA
ALLOCATION OF COMMON COSTS TO PROGRAMS
FOR THE EMF TRUE-UP FOR RIDER CE
DOCKET NO. E-22, SUB 589**

JANUARY 1, 2019 - DECEMBER 31, 2019

Allocate Common Cost to Programs: (1)

Common Costs

Costs Applicable to All
of the DSM/EE Programs

System Program Cost \$

Σ System Program Cost \$

An allocation factor is developed for each Program.

Line	Name of System Program	Program Category	Approved in NC Jurisdiction	Operating Cost (2)	Depreciation Expense (3)	Property Taxes (4)	Total (5)	Allocation Factors
1	Air Conditioner Cycling Program	Peak-Clipping	X					
2	Residential Lighting Program	Energy Efficiency	X					
3	Residential Low Income Program (NC Only)	Energy Efficiency	X					
4	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)	Energy Efficiency	X					
5	Commercial Lighting Program (NC Trailing EMV Costs Only)	Energy Efficiency	X					
6	Residential Heat Pump Tune-up Program	Energy Efficiency	X					
7	Residential Heat Pump Upgrade Program	Energy Efficiency	X					
8	Residential Duct Testing & Sealing Program	Energy Efficiency	X					
9	Residential Home Energy Check-up Program	Energy Efficiency	X					
10	Non-Residential Duct Testing & Sealing Program	Energy Efficiency	X					
11	Non-Residential Energy Audit Program	Energy Efficiency	X					
12	Non-Residential Lighting Systems and Controls	Energy Efficiency	X					
13	Non-Residential Heating & Cooling Efficiency	Energy Efficiency	X					
14	Non-Residential Window Film	Energy Efficiency	X					
15	Residential Income & Age Qualifying Home Improvement Program	Energy Efficiency	X					
16	Commercial Small Business Improvement	Energy Efficiency	X					
17	Residential LED	Energy Efficiency	X					
18	Non-Residential Prescriptive	Energy Efficiency	X					
19	Non-North Carolina Programs (6)							
	Sum of Program Costs							

Note

- 1) The allocation of the Common cost revenue requirement to the DSM/EE Programs is provided in the testimony of Company witness Lecky
- 2) For the true-up period ending December 31, 2019, refer to Company Exhibit EBL - 1, Rider CE, Schedule 2, Page 2, Line 1
- 3) For the true-up rate period, refer to Company Exhibit EBL-1, Rider CE, Schedule 2, Page 4, Line 2
- 4) For the true-up rate period, refer to Company Exhibit EBL-1, Rider CE, Schedule 2, Page 3, Line 6 divided by Schedule 2, Page 2, Line 4
- 5) If formula results in a negative value, the allocation should be zero because this program does not share common costs
- 6) For the true-up rate period, refer to Company Exhibit JEB-1, Schedule 7, Page 1

**DOMINION ENERGY NORTH CAROLINA
ALLOCATION OF COMMON COSTS TO PROGRAMS
FOR THE PROJECTED RATE PERIOD FOR RIDER C
DOCKET NO. E-22, SUB 589**

FEBRUARY 1, 2021 - JANUARY 31, 2022

Allocate Common Cost to Programs: (1)

Common Costs

Costs Applicable to All
of the DSM/EE Programs

System Program Cost \$
Σ System Program Cost \$

An allocation factor is developed for each Program.

				Projected	Projected	Projected	Rider C Program	
Line	Name of System Program	Program Category	Approved in NC Jurisdiction	Operating Cost (2)	Depreciation Expense (3)	Property Taxes (4)	Total	Rev Req to Total C Allocation Factors
1	Air Conditioner Cycling Program	Peak-Clipping	X					
2	Residential Income and Age Qualifying Home Improvement Program	Energy Efficiency	X					
3	Qualifying Small Business Improvement Program	Energy Efficiency	X					
4	Residential LED Lighting - NC Only	Energy Efficiency	NC Only					
5	Non-Residential Prescriptive Program	Energy Efficiency	X					
6	Residential Appliance Recycling Program	Energy Efficiency	X					
7	Residential Efficient Products Marketplace Program	Energy Efficiency	X					
8	Residential Home Energy Assessment Program	Energy Efficiency	X					
9	Non-Residential Lighting Systems & Controls Program	Energy Efficiency	X					
10	Non-Residential Heating & Cooling Efficiency Program	Energy Efficiency	X					
11	Non-Residential Window Film Program	Energy Efficiency	X					
12	Non-Residential Small Manufacturing Program	Energy Efficiency	X					
13	Non-Residential Office Program	Energy Efficiency	X					
14	Non-North Carolina Programs (5)							
Sum of Program Cost								

Note

- 1) The allocation of the Common cost revenue requirement to the DSM/EE Programs is provided in the testimony of Company witness Lecky For the projected rate period ending January 31, 2022, refer to Company Exhibit JEB - 1, Schedule 1 (also includes projected property taxes)
- 2) For the projected rate period, refer to Company Exhibit EBL, Schedule 1, Page 2, Line 1
- 3) For the projected rate period, refer to Company Exhibit EBL-1, Rider C, Schedule 1, Page 4, Line 5
- 4) For the projected rate period, refer to Company Exhibit EBL-1, Rider C, Schedule 1, Page 3, Line 8 Divided by Schedule 1, Page 2, Line 4
- 5) For the projected rate period, refer to Company Exhibit JEB-1, Schedule 4

**DOMINION ENERGY NORTH CAROLINA
JURISDICTIONAL ALLOCATION FACTORS
FOR THE PROJECTED RATE PERIOD FOR RIDER C AND RIDER CE
TWELVE MONTHS ENDED DECEMBER 31, 2019
DOCKET NO. E-22, SUB 589**

Dominion - North Carolina Power

12 Months Ended December 31, 2019

1CP Methodology - 4 Jurisdiction

Factor 1 NC DSM

	Total DOM Zone	VA Juris	VA Non-Juris	FERC	NC Juris
(1) CP (kW) loads at time of DOM Zone Peak (NSPL)	16,942,420	14,137,414	1,691,271	400,504	713,231
(2) Less Non-participating Contract Classes and Exempt/Opt-out MS Customers	2,066,774	0	1,666,270	400,504	0
(3) Adjusted CP loads	14,875,646	14,137,414	25,001	0	713,231
(4) Factor 1 NC DSM	100.0000%	95.0373%	0.1681%	0.0000%	4.7946%

Factor 3 NC EE

	Total DOM Zone	VA Juris	VA Non-Juris	FERC	NC Juris
(1) Annual Energy (MWh)	90,445,982	71,117,509	12,141,827	2,750,045	4,436,600
(2) Less Non-participating Contract Classes and Exempt/Opt-out MS Customers	14,709,562	0	11,959,517	2,750,045	0
(3) Adjusted energy	75,736,420	71,117,509	182,310	0	4,436,600
(4) Factor 3 NC DSM	100.0000%	93.9013%	0.2407%	0.0000%	5.8579%

DOMINION ENERGY NORTH CAROLINA
ALLOCATION FACTORS FOR THE COSTS OF THE APPROVED DSM PROGRAMS TO THE CUSTOMER CLASSES
DOCKET NO. E-22, SUB 589

<u>Line</u>	<u>Name of Program</u>	<u>Program Category</u>	<u>Total Rider Revenue Requirement</u> <u>Customer Class Assignment or Allocation Factor</u>	
1	Air Conditioner Cycling Program	Peak-Clipping	Assigned - Residential Class	
2	Residential Income and Age Qualifying Home Improvement Program	Energy Efficiency	Assigned - Residential Class	
3	Qualifying Small Business Improvement Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor	(1)
4	Residential LED Lighting - NC Only	Energy Efficiency	Assigned - Residential Class	
5	Non-Residential Prescriptive Program	Energy Efficiency	Assigned - Residential Class	
6	Residential Appliance Recycling Program	Energy Efficiency	Assigned - Residential Class	
7	Residential Efficient Products Marketplace Program	Energy Efficiency	Assigned - Residential Class	
8	Residential Home Energy Assessment Program	Energy Efficiency	Assigned - Residential Class	
9	Non-Residential Lighting Systems & Controls Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor	(1)
10	Non-Residential Heating & Cooling Efficiency Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor	(1)
11	Non-Residential Window Film Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor	(1)
12	Non-Residential Small Manufacturing Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor	(1)
13	Non-Residential Office Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor	(1)

Note

1) Energy Allocation Factor for Test Year is Adjusted for Opt-Out customers and for customer classes not participating in the program (Residential, Street and Outdoor Lights, Traffic Lights). Allocation Factors are calculated in Company Exhibit REM-1, Schedule 2, Page 2 for the EMF true-up and for the Projected Rate Period.

DOMINION ENERGY NORTH CAROLINA
 FOR THE PROJECTED RATE PERIOD FOR RIDER C AND RIDER CE
 ADJUSTED FOR OPT - OUT CUSTOMERS AND CUSTOMER CLASSES NOT PARTICIPATING IN PROGRAMS
 TWELVE MONTHS ENDED DECEMBER 31, 2019
 DOCKET NO. E-22, SUB 589

Dominion - North Carolina Power

12 Months Ended December 31, 2019

1CP Methodology - NC Class

Factor 1 NC DSM

	Total NC Class	Residential	SGS	LGS	6VP	Schedule NS	ST & Outdoo Lighting	Traffic Lighting
(1) CP (kW) loads at time of DOM Zone Peak (NSPL)	713,231	435,560	140,205	85,292	16,599	35,523	-	52
(2) Less Opt-out customers and directly assigned classes	532,043	435,560	1,078	43,231	16,599	35,523	0	52
(3) Adjusted CP loads	181,188	0	139,126	42,062	0	0	0	0
(4) Factor 1 NC DSM	100.0000%	0.0000%	76.7857%	23.2143%	0.0000%	0.0000%	0.0000%	0.0000%

Factor 3 NC EE

	Total NC Class	Residential	SGS	LGS	6VP	Schedule NS	ST & Outdoo Lighting	Traffic Lighting
(1) Annual Energy (MWh)	4,436,600	1,684,314	855,812	669,978	292,069	906,817	27,149	461
(2) Less Opt-out customers and directly assigned classes	3,279,877	1,684,314	10,414	358,653	292,069	906,817	27,149	461
(3) Adjusted energy	1,156,724	0	845,398	311,326	0	0	0	0
(4) Factor 3 NC DSM	100.0000%	0.0000%	73.0856%	26.9144%	0.0000%	0.0000%	0.0000%	0.0000%

DOMINION ENERGY NORTH CAROLINA
DSM/EE EXPERIENCE MODIFICATION FACTOR (RIDER CE) FOR THE TEST PERIOD JANUARY 1, 2019 THROUGH DECEMBER 31, 2019
ASSIGNMENT AND ALLOCATION TO CUSTOMER CLASSES
DOCKET NO. E-22, SUB 589

Line		Total	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction
			Operating Expenses	Property Tax	Depreciation Expense	EDIT Amortization	Rate Base Costs	PPI
			From Exhibit No. EBL-1	From Exhibit No. EBL-1	From Exhibit No. EBL-1	From Exhibit No. EBL-1	From Exhibit No. EBL-1	From Exhibit No. EBL-1
			Rider CE Sch 2 Pg 3 Ln 5	Rider CE Sch 2 Pg 3 Ln 6	Rider CE Sch 2 Pg 3 Ln 7	Rider CE Sch 2 Pg 3 Ln 8	Rider CE Sch 2 Pg 3 Ln 9	Rider CE Sch 2 Pg 3 Ln 11
1	Operating Expenses, Depreciation, Rate Base Costs, PPI							
	Air Conditioner Cycling Program							
	Residential Lighting Program							
	Residential Low Income Program (NC Only)							
	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)							
	Commercial Lighting Program (NC Trailing EMV Costs Only)							
	Residential Heat Pump Tune-up Program							
	Residential Heat Pump Upgrade Program							
	Residential Duct Testing & Sealing Program							
	Residential Home Energy Check-up Program							
	Non-Residential Duct Testing & Sealing Program							
	Non-Residential Energy Audit Program							
	Non-Residential Lighting Systems and Controls							
	Non-Residential Heating & Cooling Efficiency							
	Non-Residential Window Film							
	Residential Income & Age Qualifying Home Improvement Program							
	Commercial Small Business Improvement							
	Residential LED							
	Non-Residential Prescriptive							
		Jurisdictional Lost Revenues						
		From Exhibit No. EBL-1						
		Rider CE Sch 2 Pg 5 Ln 3						
2	Jurisdictional Lost Revenues							
	Air Conditioner Cycling Program							
	Residential Lighting Program							
	Residential Low Income Program (NC Only)							
	Commercial HVAC Upgrade Program (NC Trailing EMV Costs Only)							
	Commercial Lighting Program (NC Trailing EMV Costs Only)							
	Residential Heat Pump Tune-up Program							
	Residential Heat Pump Upgrade Program							
	Residential Duct Testing & Sealing Program							
	Residential Home Energy Check-up Program							
	Non-Residential Duct Testing & Sealing Program							
	Non-Residential Energy Audit Program							
	Non-Residential Lighting Systems and Controls							
	Non-Residential Heating & Cooling Efficiency							
	Non-Residential Window Film							
	Residential Income & Age Qualifying Home Improvement Program							
	Commercial Small Business Improvement							
	Residential LED							
	Non-Residential Prescriptive							

		North Carolina Jurisdiction	Residential	SGS Co & Muni	LGS	6 VP	Schedule NS	ST & Outdoor Lighting	Traffic Lighting
1	Jurisdictional Program Revenue Requirement <u>From Exhibit No REM-1 Sch 3 Pg 1 Ln 4</u> Residential Programs Non-residential Programs Jurisdictional Program Revenue Requirement EBL-1 Sch 2 Pg 1 Ln 1								
			\$1,391,917						
			<u>\$1,837,009</u>						
			\$3,228,926						
2	<u>Monthly Rider C Revenues</u> Residential Programs Non-residential Programs Monthly Revenue From Exhibit No EBL-1 Sch 2 Pg 1 Ln 4								
			\$1,168,857						
			<u>\$1,542,622</u>						
			\$2,711,479						
3	<u>(Over) / Under Recovery (Ln 1 - Ln 2)</u> Residential Programs Non-residential Programs (Over) / Under Recovery From Exhibit No EBL-1 Rider CE Sch 2 Pg 1 Ln 7								
			\$223,059						
			<u>\$294,387</u>						
			<u>\$517,446</u>						
4	<u>Deferred Income Tax</u> Residential Programs Non-residential Programs Deferred Income Tax From Exhibit No EBL-1 Rider CE Sch 2 Pg 1 Ln 9								
			(\$58,006)						
			<u>(\$76,555)</u>						
			(\$134,561)						
5	<u>Net (Over) / Under Recovery (Ln 3 - Ln 4)</u> Residential Programs Non-residential Programs Net (Over) / Under Recovery From all Programs								
			\$281,065						
			<u>\$370,941</u>						
			\$652,007						
6	Carrying Cost on Cumulative (Over) / Under Recovery Residential Programs Non-residential Programs From Exhibit No EBL-1 Rider CE Sch 2 Pg 1 Ln 13								
			(\$5,336)						
			<u>(\$7,042)</u>						
			(\$12,379)						
7	Financing Costs Rider CE (Over)-recovery Residential Programs Non-residential Programs From Exhibit No EBL-1 Rider CE Sch 2 Pg 1 Ln 15								
			(\$16,323)						
			<u>(\$21,542)</u>						
			(\$37,865)						
8	DSM EE/EMF to be (refunded)/collected during the <u>Rate Period February 1, 2021 - January 31, 2022 (Ln 3 + Ln 6 + Ln 7)</u> Residential Programs Non-residential Programs DSM EE/EMF to be (refunded)/collected From Exhibit No EBL-1 Rider CE Sch 2 Pg 1 Ln 16								
			\$201,400						
			\$265,802						
			\$467,202						
9	Assignment / Allocation of DSM / EE EMF <u>Rider CE Revenue Requirement to Customer Classes</u> Residential Programs <u>Non-residential Programs</u> Factor to Allocate Energy Efficiency Programs From Exhibit No REM-1 Sch 2 Pg 2 Non-residential Programs								
		\$201,400	\$201,400	\$0	\$0	\$0	\$0	\$0	\$0
		100 0000%	0 0000%	73 0856%	26 9144%	0 0000%	0 0000%	0 0000%	0 0000%
		\$265,802	\$0	\$194,263	\$71,539	\$0	\$0	\$0	\$0
	Check		\$467,202						

DOMINION ENERGY NORTH CAROLINA
DSM/EE (RIDER C) FOR THE PROJECTED RATE PERIOD FEBRUARY 1, 2021 THROUGH JANUARY 31, 2022
ASSIGNMENT AND ALLOCATION TO CUSTOMER CLASSES
DOCKET NO. E-22, SUB 589

Line		Total	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction	North Carolina Jurisdiction
			Operating Expenses From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 5	Depreciation Expense From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 6	EDIT Amortization From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 7	Property Tax From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 8	Rate Base Costs From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 9	PPI From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 11
1	Operating Expenses, Depreciation, Rate Base Costs, PPI Residential Lighting (PPI Only) Air Conditioner Cycling Program (Phase I) Residential NC Only Low Income Program (Phase I) Commercial HVAC Upgrade Program (Phase I) Commercial Lighting Program (Phase I) Residential Heat Pump Tune-up Program (Phase II) Residential Heat Pump Upgrade Program (Phase II) Residential Duct Testing & Sealing Program (Phase II) Residential Home Energy Check Up Program (Phase II) Non-Residential Duct Testing & Sealing Program (Phase II) Non-Residential Energy Audit Program (Phase II) Non-Residential Window Film Program (Phase III) Non-Residential Heating & Cooling Efficiency Program (Phase III) Non-Residential Lighting Systems & Controls Program (Phase III) Residential Income and Age Qualifying Home Improvement Program (Phase IV) Qualifying Small Business Improvement Program (Phase V) Residential LED Lighting - NC Only (Phase V) Non-Residential Prescriptive Program (Phase VI) Residential Appliance Recycling Program (Phase VII) Residential Efficient Products Marketplace Program (Phase VII) Residential Home Energy Assessment Program (Phase VII) Non-Residential Lighting Systems & Controls Program (Phase VII) Non-Residential Heating & Cooling Efficiency Program (Phase VII) Non-Residential Window Film Program (Phase VII) Non-Residential Small Manufacturing Program (Phase VII) Non-Residential Office Program (Phase VII)							
			Jurisdictional Lost Revenues From Exhibit No. EBL-1 Rider C Sch 1 Pg 3 Ln 10					
2	Jurisdictional Lost Revenues Residential Lighting (PPI Only) Air Conditioner Cycling Program (Phase I) Residential NC Only Low Income Program (Phase I) Commercial HVAC Upgrade Program (Phase I) Commercial Lighting Program (Phase I) Residential Heat Pump Tune-up Program (Phase II) Residential Heat Pump Upgrade Program (Phase II) Residential Duct Testing & Sealing Program (Phase II) Residential Home Energy Check Up Program (Phase II) Non-Residential Duct Testing & Sealing Program (Phase II) Non-Residential Energy Audit Program (Phase II) Non-Residential Window Film Program (Phase III) Non-Residential Heating & Cooling Efficiency Program (Phase III) Non-Residential Lighting Systems & Controls Program (Phase III) Residential Income and Age Qualifying Home Improvement Program (Phase IV) Qualifying Small Business Improvement Program (Phase V) Residential LED Lighting - NC Only (Phase V) Non-Residential Prescriptive Program (Phase VI) Residential Appliance Recycling Program (Phase VII) Residential Efficient Products Marketplace Program (Phase VII) Residential Home Energy Assessment Program (Phase VII) Non-Residential Lighting Systems & Controls Program (Phase VII) Non-Residential Heating & Cooling Efficiency Program (Phase VII) Non-Residential Window Film Program (Phase VII) Non-Residential Small Manufacturing Program (Phase VII) Non-Residential Office Program (Phase VII)							
			Total From Exhibit No. EBL-1 Rider C Sch 1 Pg 1 Ln 3					
3	Jurisdictional Program Revenue Requirement (Ln 1 Ln 2)		Targeted Classes		Res./Non-Res. Allocation Factors			
	Residential Lighting (PPI Only)		Residential					
	Air Conditioner Cycling Program (Phase I)		Residential		58.1921% Residential			
	Residential NC Only Low Income Program (Phase I)		Residential		41.8079% Non-Residential			
	Commercial HVAC Upgrade Program (Phase I)		Non-Residential					
	Commercial Lighting Program (Phase I)		Non-Residential					
	Residential Heat Pump Tune-up Program (Phase II)		Residential					
	Residential Heat Pump Upgrade Program (Phase II)		Residential					
	Residential Duct Testing & Sealing Program (Phase II)		Residential					
	Residential Home Energy Check Up Program (Phase II)		Residential					
	Non-Residential Duct Testing & Sealing Program (Phase II)		Non-Residential					
	Non-Residential Energy Audit Program (Phase II)		Non-Residential					
	Non-Residential Window Film Program (Phase III)		Non-Residential					
	Non-Residential Heating & Cooling Efficiency Program (Phase III)		Non-Residential					
	Non-Residential Lighting Systems & Controls Program (Phase III)		Non-Residential					
	Residential Income and Age Qualifying Home Improvement Program (Phase IV)		Residential					
	Qualifying Small Business Improvement Program (Phase V)		Non-Residential					
	Residential LED Lighting - NC Only (Phase V)		Residential					
	Non-Residential Prescriptive Program (Phase VI)		Non-Residential					
	Residential Appliance Recycling Program (Phase VII)		Residential					
	Residential Efficient Products Marketplace Program (Phase VII)		Residential					
	Residential Home Energy Assessment Program (Phase VII)		Residential					
	Non-Residential Lighting Systems & Controls Program (Phase VII)		Non-Residential					
	Non-Residential Heating & Cooling Efficiency Program (Phase VII)		Non-Residential					
	Non-Residential Window Film Program (Phase VII)		Non-Residential					
	Non-Residential Small Manufacturing Program (Phase VII)		Non-Residential					
	Non-Residential Office Program (Phase VII)		Non-Residential					
	Total From Exhibit No. EBL-1 Rider C Sch 1 Pg 1 Ln 5				100.0000%			
	Total Residential							
	Total Non-Residential							

DOMINION ENERGY NORTH CAROLINA
DSM/EE (RIDER C) FOR THE PROJECTED RATE PERIOD FEBRUARY 1, 2021 THROUGH JANUARY 31, 2022
ASSIGNMENT AND ALLOCATION TO CUSTOMER CLASSES
DOCKET NO. E-22, SUB 589

Line

1 NC Jurisdiction Program Revenue Requirement
From Exhibit No. REM-1 Sch 3 Pg 3 Ln 3
Residential Programs
Non-residential Programs
NC Class Revenue Requirement

\$1,494,153
\$1,073,467

\$2,567,620

2 Assignment / Allocation of DSM / EE
Rider C Revenue Requirement to NC Customer Classes
Residential Programs

North Carolina Jurisdiction	Residential	SGS Co & Muni	LGS	6 VP	Schedule NS	ST & Outdoor Lighting	Traffic Lighting
\$1,494,153	\$1,494,153	\$0	\$0	\$0	\$0	\$0	\$0
Non-residential Programs							
Factor to Allocate Energy Efficiency Programs							
From Exhibit No. REM-1 Sch 2 Pg 2	100.0000%	0.0000%	73.0856%	26.9144%	0.0000%	0.0000%	0.0000%
Non-residential Programs	\$1,073,467	\$0	\$784,550	\$288,917	\$0	\$0	\$0
Check	\$2,567,620						

DOMINION ENERGY NORTH CAROLINA DOCKET NO. E-22, SUB 589

Rule R8-69(f) Filing Requirements and Procedure.

- (1) Each utility shall submit to the Commission all of the following information and data in its application:
 - ii) For each measure for which cost recovery is requested through the DSM/EE rider:
 - b. total costs that the utility does not expect to incur during the rate period as a direct result of the measure in the aggregate and broken down by type of cost, per appropriate capacity, energy and measure unit metric, and the proposed jurisdictional allocation factors, as well as any changes in the estimate future amounts since last filed with the Commission;

In the table below, the Company shows factors that allocate the total system expenses directly attributable to the measures which the Company requests cost recovery through the DSM/EE rider that are not expected to be incurred during the rate period February 1, 2021 through January 31, 2022. The demand allocation factor is based on the summer/winter peak and average methodology and is provided for the twelve months ended December 31, 2019. The energy allocation factor is provided for the twelve months ended December 31, 2019.

Program	NC Jurisdictional Demand Allocator	NC Jurisdictional Energy Allocator
Residential Lighting (PPI Only)	4.6705%	4.9686%
Air Conditioner Cycling Program	4.6705%	4.9686%
Residential NC Only Low Income Program	4.6705%	4.9686%
Commercial HVAC Upgrade Program	4.6705%	4.9686%
Commercial Lighting Program	4.6705%	4.9686%
Residential Heat Pump Tune-up Program	4.6705%	4.9686%
Residential Heat Pump Upgrade Program	4.6705%	4.9686%
Residential Duct Testing & Sealing Program	4.6705%	4.9686%
Residential Home Energy Check-Up Program	4.6705%	4.9686%
Non-Residential Duct Testing & Sealing Program	4.6705%	4.9686%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 589

Program	NC Jurisdictional Demand Allocator	NC Jurisdictional Energy Allocator
Non-Residential Energy Audit Program	4.6705%	4.9686%
Non-Residential Window Film Program	4.6705%	4.9686%
Non-Residential Heating & Cooling Efficiency Program	4.6705%	4.9686%
Non-Residential Lighting Systems & Controls Program	4.6705%	4.9686%
Residential Income and Age Qualifying Home Improvement Program	4.6705%	4.9686%
Qualifying Small Business Improvement Program	4.6705%	4.9686%
Residential LED Lighting - NC Only	4.6705%	4.9686%
Non-Residential Prescriptive Program	4.6705%	4.9686%
Residential Appliance Recycling Program	4.6705%	4.9686%
Residential Efficient Products Marketplace Program	4.6705%	4.9686%
Residential Home Energy Assessment Program	4.6705%	4.9686%
Non-Residential Lighting Systems & Controls Program	4.6705%	4.9686%
Non-Residential Heating & Cooling Efficiency Program	4.6705%	4.9686%
Non-Residential Window Film Program	4.6705%	4.9686%
Non-Residential Small Manufacturing Program	4.6705%	4.9686%
Non-Residential Office Program	4.6705%	4.9686%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 589

Rule R8-69 (f) Filing Requirements and Procedure.

(1) Each utility shall submit to the Commission all of the following information and data in its application:

viii) All workpapers supporting the calculations and adjustments described above:

Pages 3 - 4 of this Schedule 4 calculate the allocation factors listed below:

Used to Allocate System Expenses Not Expected to Be Incurred During the Rate Period

- 1) Factor 1 Summer Winter Peak and Average ("SWPA") — System to Jurisdiction
 - a. NC Juris = 4.6705%
- 2) Factor 3 — System to Jurisdiction
 - a. NC Juris = 4.9686%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22 , SUB 589
12 MONTHS ENDING DECEMBER 31, 2019
SUMMER WINTER PEAK AND AVERAGE

Dominion Energy North Carolina
12 Months Ending December 31, 2019
Summer Winter Peak & Average

FACTOR 1/61			Total System	Va Juris	Va Non-Juris	FERC	N C Juris
(1)	Energy-Production		89,292,557	71,117,509	12,141,827	1,596,620	4,436,600
(2)	Ave. Demand (Ln 1 / # hrs in year)		10,193,214	8,118,437	1,386,053	182,263	506,461
(3)	Class Avg. Demand as % of system		100.0000%	79.6455%	13.5978%	1.7881%	4.9686%
(4)	Winter Coincident Peak		16,792,420	14,137,414	1,691,271	250,504	713,231
	Thursday, January 31, 2019	08:00					
(5)	Summer Coincident Peak		16,959,192	14,324,787	1,639,671	285,060	709,674
	Saturday, July 20, 2019	18:00					
(6)	Avg. Peak Demand [(Lns 4+5)/2]		16,875,806	14,231,101	1,665,471	267,782	711,453
(7)	Avg. Peak Demand as % of system		100.0000%	84.3284%	9.8690%	1.5868%	4.2158%
(8)	Sys. Ln 2 / Sys Ln 6 =	60.4013%	6,156,839	4,903,645	837,195	110,089	305,909
	Class Ave. Dem.% Ln 3 x	60.4013%	60.4013%	48.1070%	8.2133%	1.0800%	3.0011%
(9)	1 - Sys. Line 8 =	39.5987%	6,682,592	5,635,324	659,504	106,038	281,726
	Class Ave. Pk. Dem. % Ln 7 x	39.5987%	39.5987%	33.3929%	3.9080%	0.6283%	1.6694%
(10)	Factor 1/61 (8+ 9)		100.0000%	81.4999%	12.1212%	1.7084%	4.6705%
(11)	Rounding			0.0000%	0.0000%	0.0000%	0.0000%
(12)	Factor 1/61		100.0000%	81.4999%	12.1212%	1.7084%	4.6705%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22 , SUB 589
12 MONTHS ENDING DECEMBER 31, 2019
SUMMER WINTER PEAK AND AVERAGE

Dominion Energy North Carolina
12 Months Ending December 31, 2019
Summer Winter Peak & Average

FACTOR 3/63	Total System	Va Juris	Va Non-Juris	FERC	N C Juris
Energy production	89,292,557	71,117,509	12,141,827	1,596,620	4,436,600
Factor 3/63	100.0000%	79.6455%	13.5978%	1.7881%	4.9686%
		0.0000%	0.0000%	0.0000%	0.0000%
Factor 3/63	100.0000%	79.6455%	13.5978%	1.7881%	4.9686%

**DIRECT TESTIMONY
OF
CASEY R. LAWSON
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 589**

1 **Q.** Please state your name, business address, and your position with Virginia
2 Electric and Power Company (“Dominion Energy North Carolina” or the
3 “Company”).

4 A. My name is Casey R. Lawson, and I am a Regulatory Analyst I for Dominion
5 Energy North Carolina. My business address is 120 Tredegar Street,
6 Richmond, Virginia 23219.

7 **Q.** Please describe your area of responsibility with the Company.

8 A. I provide support and analysis for base rate schedules and Demand Side
9 Planning Riders for the Company’s retail jurisdictions. A statement of my
10 background and qualifications is attached as Appendix A.

11 **Q.** What is the purpose of your testimony in this case?

12 A. My testimony supports the Company’s request to recover all reasonable and
13 prudent costs incurred in adopting and implementing the Company’s portfolio
14 of North Carolina demand-side management (“DSM”) and energy efficiency
15 (“EE”) Programs (“DSM/EE programs” or “Programs”), and utility
16 incentives, through its updated Rider C, as well as the Company’s experience
17 modification factor (“EMF”) rider, Rider CE (“Application”). The purpose of
18 my testimony is to present the calculation of the updated DSM/EE Rider,

1 Rider C, and the EMF rider, Rider CE. Rider C is designed to recover during
2 the February 1, 2021, through January 31, 2022 period (“Rate Period”) the
3 Company’s reasonable and prudent costs incurred for the adoption and
4 implementation of the Company’s DSM/EE Programs during the Rate Period.
5 Rider CE will true up any over- or under-recovery for the period January 1,
6 2019, through December 31, 2019 (“Test Period”). The Company is
7 requesting the proposed riders, Rider C and Rider CE, become effective for
8 usage on and after February 1, 2021. Additionally, I provide the calculations
9 for the monthly residential and non-residential non-fuel average base rates that
10 have been used by Company Witness Elizabeth B. Lecky in determining gross
11 lost revenues.

12 **Q. Ms. Lawson, are you sponsoring any exhibits or schedules in connection**
13 **with your testimony?**

14 A. Yes. Company Exhibit CRL-1, consisting of Schedules 1 through 12, was
15 prepared under my supervision and is accurate and complete to the best of my
16 knowledge and belief. I also provide my supporting workpapers as required
17 by Commission Rule R8-69(f)(i)(viii).

18 **Q. Would you please discuss the calculation of Rider C?**

19 A. Yes. The Company has calculated the Rider C rates in accordance with the
20 following methodology. To develop the Rider C rate applicable to each of the
21 Company’s customer classes, we must first determine forecasted kWh sales
22 for each customer class. For the North Carolina jurisdiction, the Company
23 only forecasts kWh sales and customers by “revenue class” (*i.e.*, Residential,

1 Commercial, Industrial, Public Authority, and Outdoor Street Lighting/Traffic
2 Signals), and this revenue class kWh sales forecast is shown on pages 1
3 through 3 of Schedule 1, as required by Rule R8-69(f)(1)(i). However, these
4 revenue classes are not perfectly aligned with the Company's customer
5 classes. Therefore, the Company must allocate the revenue classes' February
6 2021 through January 2022 forecasted kWh sales down to the customer class
7 level. This allocation was performed using 2017 through 2019 historical
8 monthly customer and kWh usage for each customer class to capture the
9 recent trends of kWh sales and the numbers of customers within each
10 customer class. This allocation by revenue class (and within revenue class by
11 rate schedule) is shown on pages 4 through 6 of my Schedule 1. The
12 summary on page 7 shows the allocation of the 12 months ended January 31,
13 2022, forecasted kWh sales for each rate schedule, less the kWh sales for the
14 industrial and large commercial customers who have "opted out" under North
15 Carolina General Statutes § 62-133.9(f), to produce a net forecast. Pages 8
16 and 9 categorize the net forecasted rate schedule kWh sales into the seven
17 customer classes (*i.e.*, Residential, SGS, NS, LGS, 6VP, Outdoor/Street
18 Lighting, and Traffic Lighting customer classes).

19 The rates for Rider C have been derived based upon these net forecasted kWh
20 sales by customer class. Pages 10 and 11 of Schedule 1 detail the
21 development of the Rider C rate.

22 Page 10 of Schedule 1 shows the customer class allocated revenue
23 requirements associated with DSM/EE program costs that were provided by

1 Company Witness Robert E. Miller. By dividing these class revenue
2 requirements by their respective customer class forecasted kWh sales, we
3 have calculated customer class rates, which are then adjusted for the North
4 Carolina Regulatory Fee. Page 11 shows the rate schedules within their
5 associated customer class and provides their respective Rider C rate.

6 **Q. Have you provided projected North Carolina total retail monthly sales**
7 **for the Rate Period for the commercial and industrial customers who**
8 **have chosen to opt out of the DSM/EE Rider, as required by Rule**
9 **R8-69(f)(1)(vii)?**

10 A. Since the Company generally does not forecast kWh sales for individual
11 customers, we have used actual kWh sales from January 1, 2019, to December
12 31, 2019, as a proxy for the projected opt-out kWh sales for the Rate Period
13 for customers that have opted out as of June 30, 2020. Schedule 2 of my pre-
14 filed direct testimony contains the aggregated opt-out customer sales by
15 month.

16 **Q. Have you included the Company's proposed Rider C in Schedule 3 of**
17 **your pre-filed direct testimony?**

18 A. Yes. Schedule 3 is comprised of the tariff sheet showing the proposed
19 Rider C as required by Rule R8-69(f)(1)(vi), which, if approved as proposed,
20 would be applicable for usage on and after February 1, 2021.

1 **Q. Would you please discuss the calculation of Rider CE?**

2 A. Yes. The Company has calculated the Rider CE rates in accordance with the

3 same methodology as previously approved for calculating Rider C. The

4 allocated class Rider CE revenue requirements used in these calculations are

5 provided in Company Witness Miller’s Schedule 3. The forecasted kWh by

6 class and rate schedule for use in developing the Rider CE rates are the same

7 as described in the calculation of the Rider C rates. The results of these

8 calculations are shown in my Schedule 4. The corresponding tariff sheet for

9 the period February 1, 2021, to January 31, 2022, providing the Rider CE

10 rates is shown on page 1 of my Schedule 5.

11 **Q. Would you explain how the proposed Riders C and CE will impact**

12 **customers’ bills?**

13 A. For this comparison, the Company has used the Company’s currently-

14 authorized base rates that went into effect November 1, 2019, in Docket No.

15 E-22, Sub 562, and the fuel rates authorized to go into effect February 1,

16 2020, in the Company’s last fuel case, Docket No. E-22, Sub 579, to calculate

17 the customers’ “current bill.” For Rate Schedule 1 (residential), based on the

18 proposed February 1, 2021 effective date for Riders C and CE, for a customer

19 using 1,000 kWh per month, the weighted monthly residential bill (4 summer

20 months and 8 base months) would decrease from \$111.46 to \$111.26, or by

21 0.18%. For Rate Schedule 5 (small general service), based on the proposed

22 February 1, 2021 effective date for Riders C and CE, for a customer using

23 12,500 kWh per month and 50 kW of demand, the weighted monthly bill (4

1 summer months and 8 base months) would decrease from \$1,085.35 to
2 \$1,078.33, or by 0.65%. For Rate Schedule 6P (large general service), based
3 on the proposed February 1, 2021 effective date for Riders C and CE, for a
4 customer using 259,200 kWh on-peak and 316,800 kWh off-peak per month
5 and 1,000 kW of demand, the monthly bill would decrease from \$38,107.41 to
6 \$38,016.40, or by 0.24%.

7 **Q. For purposes of truing up lost revenues for the Test Period, would you**
8 **describe how the non-fuel average base rates were determined?**

9 A. Yes. We have calculated monthly non-fuel average base rates for the Test
10 Period for each DSM program. These monthly non-fuel average base rates
11 are provided to Company Witness Lecky, who in turn applies these rates to
12 the measured and verified kWh reductions that occurred during the Test
13 Period, as determined and provided by Company Witness Kesler.

14 In truing up gross lost revenues for the Residential Income and Age
15 Qualifying Program we used the actual participants' non-fuel base revenues
16 and their kilowatt-hour consumption for the period of January 1, 2019, to
17 December 31, 2019, to develop monthly average non-fuel base rates. These
18 calculations are shown in my Schedule 6. To calculate the average rates for
19 the Residential Retail LED Lighting program, we used the average non-fuel
20 base rates for all customers on Rate Schedules 1, 1P, and 1T and the kilowatt-
21 hour consumption for the period of January 1, 2019, to December 31, 2019,
22 shown in Schedule 7.

- 1 **Q. Did you use the same methodology for the Non-Residential Programs in**
2 **truing up lost revenues for the Test Period?**
- 3 A. Yes. We used the actual participants' non-fuel base revenues and their
4 kilowatt-hour consumption for the applicable true up period to develop
5 monthly average non-fuel base rates. This analysis used the kWh
6 consumption for those customers who participated in the Non-Residential
7 Heating & Cooling Efficiency Program, the Non-Residential Lighting
8 Systems & Controls Program, the Qualifying Small Business Improvement
9 Program, the Non-Residential Window Film Program, and the Non-
10 Residential Prescriptive Program shown in Schedules 8 through 12 during the
11 period of January 1, 2019, to December 31, 2019.
- 12 **Q. Does this conclude your pre-filed direct testimony?**
- 13 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
CASEY R. LAWSON**

Casey R. Lawson received a Bachelor of Science degree in Business Management from the Virginia Commonwealth University in 2018. Ms. Lawson joined the Customer Rates Department in 2018, beginning as an intern and then becoming a full time employee as a Regulatory Analyst I in 2019. Her responsibilities include providing support and analysis for the Company's regulatory filings in Virginia and North Carolina. Ms. Lawson has previously presented testimony before the State Corporation Commission of Virginia.

VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RIDER C
FORECAST KWH SALES AND CUSTOMERS
BY REVENUE CLASS
12 MONTHS ENDED January 31, 2022

----- REVENUE CLASS=A. RESIDENTIAL -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2021	2	103,534	152,845,075
2021	3	103,552	123,025,288
2021	4	103,560	96,705,104
2021	5	103,578	102,329,323
2021	6	103,603	141,756,985
2021	7	103,632	180,397,937
2021	8	103,669	167,917,823
2021	9	103,690	118,336,100
2021	10	103,715	99,684,577
2021	11	103,756	102,260,173
2021	12	103,800	152,578,496
2022	1	103,838	185,135,016
-----			-----
TOTAL			1,622,971,899

----- REVENUE CLASS=B. COMMERCIAL -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2021	2	15,725	59,910,162
2021	3	15,728	61,207,982
2021	4	15,731	58,843,846
2021	5	15,734	67,180,959
2021	6	15,737	72,659,863
2021	7	15,740	83,113,575
2021	8	15,743	83,039,414
2021	9	15,745	76,342,865
2021	10	15,748	72,776,115
2021	11	15,750	62,935,736
2021	12	15,753	66,864,271
2022	1	15,754	69,033,855
-----			-----
TOTAL			833,908,642

VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RIDER C
FORECAST KWH SALES AND CUSTOMERS
BY REVENUE CLASS
12 MONTHS ENDED January 31, 2022

----- REVENUE CLASS=C. INDUSTRIAL -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2021	2	56	116,686,516
2021	3	56	134,377,953
2021	4	56	154,709,125
2021	5	56	141,875,242
2021	6	56	158,026,332
2021	7	56	158,947,333
2021	8	56	112,961,423
2021	9	56	169,009,194
2021	10	56	117,820,981
2021	11	56	161,365,587
2021	12	56	154,838,406
2022	1	56	151,939,894
-----			-----
TOTAL			1,732,557,987

----- REVENUE CLASS=D. OUTDOOR LIGHTING & TRAFFIC -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2021	2	385	680,478
2021	3	385	686,491
2021	4	385	660,435
2021	5	385	756,644
2021	6	385	691,502
2021	7	385	700,522
2021	8	385	733,594
2021	9	385	611,328
2021	10	385	685,489
2021	11	385	628,365
2021	12	385	589,280
2022	1	385	870,836
-----			-----
TOTAL			8,294,966

VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RIDER C
FORECAST KWH SALES AND CUSTOMERS
BY REVENUE CLASS
12 MONTHS ENDED January 31, 2022

----- REVENUE CLASS=E. PUBLIC AUTHORITY -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2021	2	1,866	10,750,357
2021	3	1,866	10,520,858
2021	4	1,866	9,126,829
2021	5	1,866	10,091,926
2021	6	1,866	11,211,358
2021	7	1,867	11,709,440
2021	8	1,866	12,584,341
2021	9	1,864	11,287,524
2021	10	1,864	10,481,773
2021	11	1,863	9,069,705
2021	12	1,863	9,683,038
2022	1	1,864	11,116,207
-----			-----
TOTAL			127,633,356
			=====
			4,325,366,850

----- REVENUE CLASS=A. RESIDENTIAL -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH
1DF	2,838,261
1	1,599,481,500
1P	12,354,556
1T	840,490
1W	106,896
26	7,350,197
-----	-----
RC	1,622,971,899

----- REVENUE CLASS=B. COMMERCIAL -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH
5	520,589,831
5C	7,745,005
5P	162,058,209
7	1,279,844
6C	2,826,785
6P & 6L	91,437,186
10	38,880,837
26	9,090,946
-----	-----
RC	833,908,642

----- REVENUE CLASS=C. INDUSTRIAL -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH
5	12,247,634
5P	1,167,174
6C	0

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2019.

----- REVENUE CLASS=C. INDUSTRIAL -----

(continued)

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH
6P & 6L	511,919,942
6VP	284,930,223
10	87,380,693
NS	897,365,839
26	386,212
-----	-----
RC	1,795,397,717

----- REVENUE CLASS=D. OUTDOOR LIGHTING & TRAFFIC -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH
30T	487,167
26	7,807,800
-----	-----
RC	8,294,966

----- REVENUE CLASS=E. PUBLIC AUTHORITY -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH
5P	3,015,958
6C	2,622,587
6P & 6L	1,381,749
30	79,646,224
42	40,610,111
26	356,726
-----	-----
RC	127,633,356

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2019.

----- REVENUE CLASS=E. PUBLIC AUTHORITY -----

(continued)

	12 MOS ENDED
RATE	01/31/2022
SCHEDULE	FORECAST KWH

=====
4,388,206,580

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2019.

SUMMARY OF FORECAST NET KWH SALES BY RATE SCHEDULE

RATE SCHEDULE	12 MOS ENDED 01/31/2022 FORECAST KWH	OPT OUT KWH	12 MOS ENDED 01/31/2022 NET FORECAST KWH
1DF	2,838,261	0	2,838,261
1	1,599,481,500	0	1,599,481,500
1P	12,354,556	0	12,354,556
1T	840,490	0	840,490
1W	106,896	0	106,896
5	532,837,465	4,121,999	528,715,466
5C	7,745,005	0	7,745,005
5P	166,241,341	5,785,453	160,455,888
7	1,279,844	0	1,279,844
6C	5,449,372	0	5,449,372
6P & 6L	604,738,878	318,929,537	285,809,341
6VP	284,930,223	284,930,223	0
10	126,261,531	25,798,728	100,462,803
30	79,646,224	0	79,646,224
30T	487,167	0	487,167
42	40,610,111	0	40,610,111
NS	897,365,839	897,365,839	0
26	24,991,881	0	24,991,881
	=====	=====	=====
	4,388,206,580	1,536,931,779	2,851,274,801

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2019.

VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RIDER C

REFLECTS FORECASTED NET KWH SALES
12 MONTHS ENDED January 31, 2022
KWH CATEGORIZED BY CUSTOMER CLASSES AND RATES SCHEDULES

----- CUSTOMER CLASS=RESIDENTIAL -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
1	1,599,481,500
1DF	2,838,261
1P	12,354,556
1T	840,490
1W	106,896
-----	-----
CLASS	1,615,621,702

----- CUSTOMER CLASS=SMALL GENERAL SERVICE & PUBLIC AUTHORITY -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
30	79,646,224
42	40,610,111
5	528,715,466
5C	7,745,005
5P	160,455,888
7	1,279,844
-----	-----
CLASS	818,452,537

----- CUSTOMER CLASS=LARGE GENERAL SERVICE -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
10	100,462,803
6C	5,449,372
6P & 6L	285,809,341
-----	-----
CLASS	391,721,516

VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RIDER C
REFLECTS FORECASTED NET KWH SALES
12 MONTHS ENDED January 31, 2022
KWH CATEGORIZED BY CUSTOMER CLASSES AND RATES SCHEDULES

----- CUSTOMER CLASS=6VP -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
6VP	0

----- CUSTOMER CLASS=NS -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
NS	0

----- CUSTOMER CLASS=OUTDOOR LIGHTING -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
26	24,991,881

----- CUSTOMER CLASS=TRAFFIC LIGHTING -----

RATE SCHEDULE	12 MOS ENDED 01/31/2022 NET FORECAST KWH
30T	487,167
	=====
	2,851,274,801

ALLOCATION OF NC JURISDICTIONAL REVENUE REQUIREMENT
TO THE CUSTOMER CLASSES AND CALCULATION OF RIDER C CUSTOMER CLASS RATES
REFLECTS FORECASTED NET KWH SALES

CUSTOMER CLASS	CUST CLASS ALLOCATED REVENUE REQ(1)	12 MOS ENDED 01/31/2022 NET FORECAST KWH	CUSTOMER CLASS RATE W/OUT REG FEE	CUSTOMER CLASS RATE WITH REG FEE
RESIDENTIAL	\$1,494,153	1,615,621,702	\$0.000925	\$0.000926
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	\$784,550	818,452,537	\$0.000959	\$0.000960
LARGE GENERAL SERVICE	\$288,917	391,721,516	\$0.000738	\$0.000739
6VP	\$0	0	0	0
NS	\$0	0	0	0
OUTDOOR LIGHTING	\$0	24,991,881	\$0.000000	\$0.000000
TRAFFIC LIGHTING	\$0	487,167	\$0.000000	\$0.000000
	=====	=====		
	\$2,567,620	2,851,274,801		

(1) FROM REM SCHEDULE 3 PAGE 4

**VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RATES SCHEDULES BY CUSTOMER CLASS
(RIDER C RATES INCLUDE NORTH CAROLINA REGULATORY FEE)**

CUSTOMER CLASS	RATE SCHEDULE	RIDER C RATE
RESIDENTIAL	1	\$ 0.000926
	1DF	\$ 0.000926
	1P	\$ 0.000926
	1T	\$ 0.000926
	1W	\$ 0.000926
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	30	\$ 0.000960
	42	\$ 0.000960
	5	\$ 0.000960
	5C	\$ 0.000960
	5P	\$ 0.000960
	7	\$ 0.000960
LARGE GENERAL SERVICE	10	\$ 0.000739
	6C	\$ 0.000739
	6P	\$ 0.000739
	6L	\$ 0.000739
	RTP With Customer Baseline Load	\$ 0.000739
	RTP Economic Development	\$ 0.000739
6VP	6VP	\$ -
NS	NS	\$ -
OUTDOOR LIGHTING	26	\$ -
TRAFFIC LIGHTING	30T	\$ -

**VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
OPT-OUT NON-RESIDENTIAL CUSTOMERS**

		Total Monthly
Month	Year	KWH
January	2019	130,539,591
February	2019	120,927,995
March	2019	123,679,611
April	2019	130,004,736
May	2019	145,651,469
June	2019	120,987,160
July	2019	129,919,714
August	2019	142,437,494
September	2019	99,475,300
October	2019	136,767,072
November	2019	131,127,066
December	2019	125,414,571
TOTAL		1,536,931,779

Virginia Electric and Power Company

RIDER C

DEMAND SIDE MANAGEMENT/ENERGY EFFICIENCY RIDER

The following Dominion Energy North Carolina filed Rate Schedules shall be increased by the applicable cents per kilowatt-hour charge.

Rate Schedule	Cents per kWh Charge
Schedule 1	0.0926 ¢/kWh
Schedule 1DF	0.0926 ¢/kWh
Schedule 1P	0.0926 ¢/kWh
Schedule 1T	0.0926 ¢/kWh
Schedule 1W	0.0926 ¢/kWh
Schedule 5	0.0960 ¢/kWh
Schedule 5C	0.0960 ¢/kWh
Schedule 5P	0.0960 ¢/kWh
Schedule 6C	0.0739 ¢/kWh
Schedule 6L	0.0739 ¢/kWh
Schedule 6P	0.0739 ¢/kWh
Schedule 6VP	0.0000 ¢/kWh
Schedule 7	0.0960 ¢/kWh
Schedule LGS RTP With Customer Baseline Load	0.0739 ¢/kWh
Schedule LGS – RTP Economic Development	0.0739 ¢/kWh
Schedule NS	0.0000 ¢/kWh
Schedule 10	0.0739 ¢/kWh
Schedule 26	0.0000 ¢/kWh
Schedule 30	0.0960 ¢/kWh
Schedule 30T	0.0000 ¢/kWh
Schedule 42	0.0960 ¢/kWh

Filed 08-11-20
Electric-North Carolina

Superseding Filing Effective For Usage On
and After 02-01-20. This Filing Effective
For Usage On and After 02-01-21.

ALLOCATION OF NC JURISDICTIONAL REVENUE REQUIREMENT
TO THE CUSTOMER CLASSES AND CALCULATION OF RIDER CE CUSTOMER CLASS RATES
REFLECTS FORECASTED NET KWH SALES

CUSTOMER CLASS	CUST CLASS ALLOCATED REVENUE REQ(1)	12 MOS ENDED 01/31/2022 NET FORECAST KWH	CUSTOMER CLASS RATE W/OUT REG FEE	CUSTOMER CLASS RATE WITH REG FEE
RESIDENTIAL	\$201,400	1,615,621,702	\$0.000125	\$0.000125
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	\$194,263	818,452,537	\$0.000237	\$0.000238
LARGE GENERAL SERVICE	\$71,539	391,721,516	\$0.000183	\$0.000183
6VP	\$0	0	0	0
NS	\$0	0	0	0
OUTDOOR LIGHTING	\$0	24,991,881	\$0.000000	\$0.000000
TRAFFIC LIGHTING	\$0	487,167	\$0.000000	\$0.000000
	=====	=====		
	\$467,202	2,851,274,801		

(1) FROM REM SCHEDULE 3 PAGE 2

**VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RATES SCHEDULES BY CUSTOMER CLASS
(RIDER CE RATES INCLUDE NORTH CAROLINA REGULATORY FEE)**

CUSTOMER CLASS	RATE SCHEDULE	RIDER CE RATE
RESIDENTIAL	1	\$ 0.000125
	1DF	\$ 0.000125
	1P	\$ 0.000125
	1T	\$ 0.000125
	1W	\$ 0.000125
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	30	\$ 0.000238
	42	\$ 0.000238
	5	\$ 0.000238
	5C	\$ 0.000238
	5P	\$ 0.000238
	7	\$ 0.000238
LARGE GENERAL SERVICE	10	\$ 0.000183
	6C	\$ 0.000183
	6P	\$ 0.000183
	6L	\$ 0.000183
	RTP With Customer Baseline Load	\$ 0.000183
	RTP Economic Development	\$ 0.000183
6VP	6VP	\$ -
NS	NS	\$ -
OUTDOOR LIGHTING	26	\$ -
TRAFFIC LIGHTING	30T	\$ -

Virginia Electric and Power Company

RIDER CE
DSM/EE EXPERIENCE MODIFICATION FACTOR
(DSM/EE EMF)

The following Dominion Energy North Carolina filed Rate Schedules shall be increased by the applicable cents per kilowatt-hour charge.

Rate Schedule	Cents per kWh Charge
Schedule 1	0.0125 ¢/kWh
Schedule 1DF	0.0125 ¢/kWh
Schedule 1P	0.0125 ¢/kWh
Schedule 1T	0.0125 ¢/kWh
Schedule 1W	0.0125 ¢/kWh
Schedule 5	0.0238 ¢/kWh
Schedule 5C	0.0238 ¢/kWh
Schedule 5P	0.0238 ¢/kWh
Schedule 6C	0.0183 ¢/kWh
Schedule 6L	0.0183 ¢/kWh
Schedule 6P	0.0183 ¢/kWh
Schedule 6VP	0.0000 ¢/kWh
Schedule 7	0.0238 ¢/kWh
Schedule LGS RTP With Customer Baseline Load	0.0183 ¢/kWh
Schedule LGS – RTP Economic Development	0.0183 ¢/kWh
Schedule NS	0.0000 ¢/kWh
Schedule 10	0.0183 ¢/kWh
Schedule 26	0.0000 ¢/kWh
Schedule 30	0.0238 ¢/kWh
Schedule 30T	0.0000 ¢/kWh
Schedule 42	0.0238 ¢/kWh

Filed 08-11-20
Electric-North Carolina

Superseding Filing Effective For Usage On
and After 02-01-20. This Filing Effective
For Usage On and After 02-01-21.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL INCOME & AGE QUALIFYING HOME IMPROVEMENT PROGRAM

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	315,664	\$22,910	\$0.07258
2	2019	2	364,675	\$26,468	\$0.07258
3	2019	3	346,170	\$25,112	\$0.07254
4	2019	4	393,985	\$28,555	\$0.07248
5	2019	5	281,627	\$20,414	\$0.07249
6	2019	6	220,965	\$19,232	\$0.08704
7	2019	7	436,330	\$37,942	\$0.08696
8	2019	8	334,261	\$29,077	\$0.08699
9	2019	9	317,951	\$27,658	\$0.08699
10	2019	10	248,257	\$18,003	\$0.07252
11	2019	11	149,419	\$10,844	\$0.07257
12	2019	12	369,962	\$26,830	\$0.07252

* All participants were served under Schedule 1, therefore Base Revenue reflects Rate Schedule 1 non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL RETAIL LED LIGHTING PROGRAM

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	113,118,038	\$8,186,232	\$0.07237
2	2019	2	134,560,669	\$9,739,321	\$0.07238
3	2019	3	123,406,701	\$8,932,034	\$0.07238
4	2019	4	105,241,096	\$7,618,007	\$0.07239
5	2019	5	100,491,337	\$7,266,728	\$0.07231
6	2019	6	128,493,366	\$11,147,833	\$0.08676
7	2019	7	178,062,848	\$15,450,481	\$0.08677
8	2019	8	165,310,390	\$14,333,897	\$0.08671
9	2019	9	140,214,062	\$12,164,726	\$0.08676
10	2019	10	117,115,573	\$8,470,628	\$0.07233
11	2019	11	71,086,358	\$5,145,075	\$0.07238
12	2019	12	133,167,769	\$9,639,302	\$0.07238

* Base Revenue reflects Schedule 1, 1P, and 1T non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 7 on pages 2 to 4 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL RETAIL LED LIGHTING PROGRAM

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	112,329,942	\$8,139,248	\$0.07246
2	2019	2	133,738,364	\$9,689,752	\$0.07245
3	2019	3	122,615,700	\$8,884,298	\$0.07246
4	2019	4	104,539,944	\$7,573,761	\$0.07245
5	2019	5	99,653,094	\$7,218,576	\$0.07244
6	2019	6	127,393,855	\$11,070,418	\$0.08690
7	2019	7	176,965,990	\$15,376,954	\$0.08689
8	2019	8	163,740,620	\$14,229,344	\$0.08690
9	2019	9	139,069,023	\$12,085,126	\$0.08690
10	2019	10	116,193,463	\$8,416,855	\$0.07244
11	2019	11	70,455,884	\$5,104,866	\$0.07245
12	2019	12	132,360,805	\$9,591,145	\$0.07246

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL RETAIL LED LIGHTING PROGRAM

RATE SCHEDULE 1P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	714,803	\$41,876	\$0.05858
2	2019	2	751,700	\$44,696	\$0.05946
3	2019	3	722,928	\$43,115	\$0.05964
4	2019	4	647,747	\$40,547	\$0.06260
5	2019	5	782,944	\$44,422	\$0.05674
6	2019	6	1,009,809	\$69,616	\$0.06894
7	2019	7	1,010,714	\$65,741	\$0.06504
8	2019	8	1,440,197	\$94,371	\$0.06553
9	2019	9	1,060,356	\$72,464	\$0.06834
10	2019	10	856,414	\$49,095	\$0.05733
11	2019	11	587,787	\$37,295	\$0.06345
12	2019	12	738,415	\$43,694	\$0.05917

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL RETAIL LED LIGHTING PROGRAM

RATE SCHEDULE 1T

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	73,293	\$5,108	\$0.06969
2	2019	2	70,605	\$4,873	\$0.06901
3	2019	3	68,073	\$4,620	\$0.06787
4	2019	4	53,405	\$3,700	\$0.06929
5	2019	5	55,299	\$3,731	\$0.06746
6	2019	6	89,702	\$7,798	\$0.08693
7	2019	7	86,144	\$7,787	\$0.09039
8	2019	8	129,573	\$10,182	\$0.07858
9	2019	9	84,683	\$7,136	\$0.08427
10	2019	10	65,696	\$4,677	\$0.07120
11	2019	11	42,687	\$2,913	\$0.06825
12	2019	12	68,549	\$4,463	\$0.06511

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	1,916,807	\$92,941	\$0.04849
2	2019	2	1,888,405	\$103,625	\$0.05487
3	2019	3	1,946,696	\$97,423	\$0.05005
4	2019	4	1,984,762	\$98,735	\$0.04975
5	2019	5	2,058,424	\$97,410	\$0.04732
6	2019	6	2,955,039	\$179,583	\$0.06077
7	2019	7	2,820,948	\$209,053	\$0.07411
8	2019	8	2,680,171	\$229,923	\$0.08579
9	2019	9	2,881,533	\$204,263	\$0.07089
10	2019	10	2,653,096	\$153,380	\$0.05781
11	2019	11	1,766,289	\$82,134	\$0.04650
12	2019	12	2,018,157	\$101,190	\$0.05014

* Base Revenue reflects Schedule 10, 30, 42, 5, 5P, and 6P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 8 on pages 2 to 7 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 10

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	1,296,174	\$49,082	\$0.03787
2	2019	2	1,273,602	\$58,861	\$0.04622
3	2019	3	1,348,088	\$52,881	\$0.03923
4	2019	4	1,373,423	\$51,136	\$0.03723
5	2019	5	1,467,893	\$49,868	\$0.03397
6	2019	6	1,748,772	\$83,596	\$0.04780
7	2019	7	1,800,571	\$126,544	\$0.07028
8	2019	8	1,855,371	\$165,592	\$0.08925
9	2019	9	1,830,808	\$121,512	\$0.06637
10	2019	10	1,664,808	\$81,292	\$0.04883
11	2019	11	1,336,001	\$44,912	\$0.03362
12	2019	12	1,392,170	\$54,766	\$0.03934

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 30

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	42,480	\$2,657	\$0.06255
2	2019	2	51,120	\$3,156	\$0.06174
3	2019	3	47,520	\$2,919	\$0.06143
4	2019	4	50,400	\$3,568	\$0.07080
5	2019	5	69,120	\$4,514	\$0.06530
6	2019	6	83,520	\$6,054	\$0.07249
7	2019	7	84,240	\$5,846	\$0.06940
8	2019	8	92,160	\$6,378	\$0.06920
9	2019	9	97,200	\$6,599	\$0.06789
10	2019	10	87,120	\$5,594	\$0.06421
11	2019	11	66,240	\$4,386	\$0.06622
12	2019	12	49,680	\$3,292	\$0.06627

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 42

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	247,500	\$12,987	\$0.05247
2	2019	2	229,280	\$12,074	\$0.05266
3	2019	3	226,600	\$11,874	\$0.05240
4	2019	4	243,580	\$12,795	\$0.05253
5	2019	5	76,160	\$4,210	\$0.05527
6	2019	6	529,960	\$41,418	\$0.07815
7	2019	7	379,740	\$29,616	\$0.07799
8	2019	8	223,800	\$17,537	\$0.07836
9	2019	9	432,160	\$34,351	\$0.07949
10	2019	10	312,140	\$16,766	\$0.05371
11	2019	11	80,960	\$4,702	\$0.05808
12	2019	12	261,600	\$14,020	\$0.05359

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	173,641	\$9,929	\$0.05718
2	2019	2	166,267	\$9,609	\$0.05779
3	2019	3	166,710	\$9,775	\$0.05863
4	2019	4	150,162	\$9,019	\$0.06006
5	2019	5	192,463	\$11,031	\$0.05732
6	2019	6	274,305	\$17,345	\$0.06323
7	2019	7	277,918	\$17,495	\$0.06295
8	2019	8	281,983	\$17,673	\$0.06267
9	2019	9	279,431	\$17,574	\$0.06289
10	2019	10	317,827	\$19,097	\$0.06009
11	2019	11	78,881	\$4,450	\$0.05641
12	2019	12	153,480	\$9,251	\$0.06027

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	71,827	\$7,528	\$0.10480
2	2019	2	79,400	\$8,140	\$0.10252
3	2019	3	71,704	\$8,034	\$0.11204
4	2019	4	85,563	\$9,483	\$0.11084
5	2019	5	135,645	\$11,775	\$0.08681
6	2019	6	166,381	\$13,805	\$0.08297
7	2019	7	158,216	\$13,816	\$0.08732
8	2019	8	156,363	\$14,013	\$0.08962
9	2019	9	171,440	\$15,496	\$0.09039
10	2019	10	143,360	\$14,318	\$0.09988
11	2019	11	107,741	\$10,906	\$0.10122
12	2019	12	85,495	\$8,829	\$0.10327

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 589

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
AVERAGE BASE RATES FOR THE TEST PERIOD
EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 6P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	85,185	\$10,758	\$0.12629
2	2019	2	88,736	\$11,786	\$0.13282
3	2019	3	86,074	\$11,940	\$0.13872
4	2019	4	81,634	\$12,733	\$0.15598
5	2019	5	117,143	\$16,012	\$0.13669
6	2019	6	152,101	\$17,365	\$0.11417
7	2019	7	120,263	\$15,736	\$0.13085
8	2019	8	70,494	\$8,731	\$0.12385
9	2019	9	70,494	\$8,731	\$0.12385
10	2019	10	127,841	\$16,312	\$0.12760
11	2019	11	96,466	\$12,777	\$0.13245
12	2019	12	75,732	\$11,033	\$0.14568

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

** One customer was approved to participate in this program during 2019. Their August and September usage were both billed in September, so their total September bill usage was divided evenly between August and September for the purposes of developing an average monthly rate.

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NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	9,922,737	\$688,344	\$0.06937
2	2019	2	9,374,303	\$646,890	\$0.06901
3	2019	3	8,904,641	\$591,136	\$0.06639
4	2019	4	9,020,860	\$600,439	\$0.06656
5	2019	5	10,670,757	\$697,412	\$0.06536
6	2019	6	9,822,363	\$682,460	\$0.06948
7	2019	7	10,700,920	\$856,043	\$0.08000
8	2019	8	10,315,441	\$784,529	\$0.07605
9	2019	9	10,403,248	\$774,023	\$0.07440
10	2019	10	11,281,615	\$769,185	\$0.06818
11	2019	11	7,962,324	\$502,768	\$0.06314
12	2019	12	7,155,311	\$477,073	\$0.06667

* Base Revenue reflects Schedule 10, 30, 42, 5, 5P, and 6P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 9 on pages 2 to 7 in Columns (C) & (D) of each rate table.

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NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 10

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	2,343,439	\$94,447	\$0.04030
2	2019	2	2,403,253	\$111,033	\$0.04620
3	2019	3	2,456,294	\$96,577	\$0.03932
4	2019	4	2,280,425	\$84,804	\$0.03719
5	2019	5	2,412,139	\$85,484	\$0.03544
6	2019	6	2,422,051	\$117,265	\$0.04842
7	2019	7	2,168,497	\$205,909	\$0.09495
8	2019	8	2,313,280	\$170,260	\$0.07360
9	2019	9	2,354,710	\$149,586	\$0.06353
10	2019	10	2,394,981	\$104,197	\$0.04351
11	2019	11	2,419,451	\$88,791	\$0.03670
12	2019	12	2,362,501	\$94,371	\$0.03995

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 30

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	19,081	\$1,119	\$0.05867
2	2019	2	16,813	\$1,044	\$0.06209
3	2019	3	16,035	\$976	\$0.06087
4	2019	4	25,079	\$1,445	\$0.05762
5	2019	5	42,612	\$2,234	\$0.05242
6	2019	6	44,922	\$2,734	\$0.06086
7	2019	7	46,584	\$2,789	\$0.05988
8	2019	8	38,244	\$2,338	\$0.06112
9	2019	9	40,433	\$2,451	\$0.06061
10	2019	10	29,241	\$1,649	\$0.05639
11	2019	11	21,399	\$1,275	\$0.05957
12	2019	12	20,190	\$1,135	\$0.05621

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 42

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	142,240	\$7,042	\$0.04951
2	2019	2	127,700	\$6,247	\$0.04892
3	2019	3	127,580	\$6,200	\$0.04860
4	2019	4	118,280	\$5,816	\$0.04917
5	2019	5	183,000	\$9,381	\$0.05126
6	2019	6	202,960	\$15,546	\$0.07660
7	2019	7	247,860	\$18,722	\$0.07554
8	2019	8	151,120	\$11,764	\$0.07784
9	2019	9	288,340	\$22,154	\$0.07683
10	2019	10	174,900	\$9,239	\$0.05283
11	2019	11	138,440	\$7,180	\$0.05186
12	2019	12	83,280	\$4,039	\$0.04850

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	2,269,098	\$146,425	\$0.06453
2	2019	2	1,485,067	\$92,872	\$0.06254
3	2019	3	1,315,441	\$80,829	\$0.06145
4	2019	4	1,674,744	\$106,032	\$0.06331
5	2019	5	2,288,574	\$145,655	\$0.06364
6	2019	6	1,452,576	\$95,378	\$0.06566
7	2019	7	1,933,582	\$131,136	\$0.06782
8	2019	8	2,572,781	\$186,130	\$0.07235
9	2019	9	1,466,598	\$95,258	\$0.06495
10	2019	10	2,339,915	\$151,743	\$0.06485
11	2019	11	907,711	\$54,715	\$0.06028
12	2019	12	1,652,974	\$103,293	\$0.06249

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	1,325,653	\$104,004	\$0.07845
2	2019	2	1,115,502	\$91,456	\$0.08199
3	2019	3	1,083,307	\$92,535	\$0.08542
4	2019	4	986,915	\$85,965	\$0.08710
5	2019	5	1,410,498	\$111,333	\$0.07893
6	2019	6	1,309,854	\$109,049	\$0.08325
7	2019	7	1,670,000	\$134,041	\$0.08026
8	2019	8	1,442,364	\$120,879	\$0.08381
9	2019	9	1,449,764	\$115,464	\$0.07964
10	2019	10	1,415,142	\$117,089	\$0.08274
11	2019	11	961,404	\$82,143	\$0.08544
12	2019	12	1,254,327	\$98,549	\$0.07857

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 6P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	3,823,226	\$335,307	\$0.08770
2	2019	2	4,225,968	\$344,237	\$0.08146
3	2019	3	3,905,984	\$314,020	\$0.08039
4	2019	4	3,935,417	\$316,377	\$0.08039
5	2019	5	4,333,934	\$343,325	\$0.07922
6	2019	6	4,390,000	\$342,488	\$0.07802
7	2019	7	4,634,397	\$363,445	\$0.07842
8	2019	8	3,797,652	\$293,159	\$0.07719
9	2019	9	4,803,403	\$389,111	\$0.08101
10	2019	10	4,927,436	\$385,269	\$0.07819
11	2019	11	3,513,919	\$268,664	\$0.07646
12	2019	12	1,782,039	\$175,686	\$0.09859

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NORTH CAROLINA JURISDICTIONAL**

QUALIFYING SMALL BUSINESS IMPROVEMENT PROGRAM

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	341,503	\$20,287	\$0.05941
2	2019	2	313,187	\$18,764	\$0.05991
3	2019	3	301,391	\$18,159	\$0.06025
4	2019	4	292,100	\$17,596	\$0.06024
5	2019	5	284,824	\$16,486	\$0.05788
6	2019	6	499,655	\$32,034	\$0.06411
7	2019	7	539,316	\$34,176	\$0.06337
8	2019	8	519,440	\$32,839	\$0.06322
9	2019	9	467,915	\$29,642	\$0.06335
10	2019	10	419,602	\$24,300	\$0.05791
11	2019	11	222,727	\$12,967	\$0.05822
12	2019	12	318,892	\$18,906	\$0.05929

* All participants were served under Schedule 5, therefore Base Revenue reflects Rate Schedule 5 non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTIAL WINDOW FILM PROGRAM

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	73,677	\$7,053	\$0.09573
2	2019	2	97,273	\$8,893	\$0.09142
3	2019	3	85,021	\$7,904	\$0.09296
4	2019	4	67,688	\$6,429	\$0.09498
5	2019	5	59,376	\$5,032	\$0.08475
6	2019	6	68,284	\$6,351	\$0.09301
7	2019	7	72,519	\$6,573	\$0.09064
8	2019	8	76,941	\$7,115	\$0.09248
9	2019	9	81,200	\$7,168	\$0.08828
10	2019	10	57,054	\$5,463	\$0.09575
11	2019	11	76,652	\$6,193	\$0.08079
12	2019	12	76,652	\$6,193	\$0.08079

* All participants were served under Schedule 5P, therefore Base Revenue reflects Rate Schedule 5P non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTAL PRESCRIPTIVE PROGRAM

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	3,646,716	\$237,349	\$0.06509
2	2019	2	3,592,250	\$243,111	\$0.06768
3	2019	3	3,380,425	\$230,527	\$0.06819
4	2019	4	3,469,630	\$231,593	\$0.06675
5	2019	5	3,825,617	\$248,805	\$0.06504
6	2019	6	4,292,884	\$294,231	\$0.06854
7	2019	7	4,517,310	\$313,573	\$0.06942
8	2019	8	3,934,126	\$277,122	\$0.07044
9	2019	9	4,452,288	\$324,148	\$0.07280
10	2019	10	3,964,572	\$264,562	\$0.06673
11	2019	11	3,144,227	\$209,394	\$0.06660
12	2019	12	3,460,844	\$220,996	\$0.06386

* Base Revenue reflects Schedule 10, 5, 5P, and 6P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 12 on pages 2 to 5 in Columns (C) & (D) of each rate table.

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NON-RESIDENTAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 10

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	695,286	\$26,423	\$0.03800
2	2019	2	621,874	\$26,546	\$0.04269
3	2019	3	625,532	\$24,460	\$0.03910
4	2019	4	665,857	\$24,009	\$0.03606
5	2019	5	706,914	\$24,409	\$0.03453
6	2019	6	747,230	\$30,505	\$0.04082
7	2019	7	777,046	\$42,649	\$0.05489
8	2019	8	722,145	\$37,798	\$0.05234
9	2019	9	787,865	\$35,529	\$0.04510
10	2019	10	700,904	\$27,274	\$0.03891
11	2019	11	661,752	\$23,503	\$0.03552
12	2019	12	676,404	\$26,241	\$0.03880

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	653,583	\$35,677	\$0.05459
2	2019	2	636,204	\$34,851	\$0.05478
3	2019	3	598,251	\$33,010	\$0.05518
4	2019	4	599,098	\$33,345	\$0.05566
5	2019	5	652,558	\$35,768	\$0.05481
6	2019	6	834,900	\$51,132	\$0.06124
7	2019	7	802,447	\$49,234	\$0.06135
8	2019	8	826,825	\$50,794	\$0.06143
9	2019	9	804,840	\$49,031	\$0.06092
10	2019	10	702,610	\$38,621	\$0.05497
11	2019	11	532,454	\$29,259	\$0.05495
12	2019	12	647,937	\$35,206	\$0.05434

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	1,869,704	\$142,234	\$0.07607
2	2019	2	1,890,039	\$146,116	\$0.07731
3	2019	3	1,729,519	\$139,315	\$0.08055
4	2019	4	1,794,728	\$142,389	\$0.07934
5	2019	5	2,009,216	\$153,633	\$0.07646
6	2019	6	2,217,204	\$176,439	\$0.07958
7	2019	7	2,400,094	\$184,095	\$0.07670
8	2019	8	2,115,755	\$170,212	\$0.08045
9	2019	9	2,307,713	\$187,110	\$0.08108
10	2019	10	2,127,595	\$167,418	\$0.07869
11	2019	11	1,753,521	\$142,395	\$0.08121
12	2019	12	1,922,286	\$143,725	\$0.07477

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

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NON-RESIDENTAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 6P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2019	1	428,143	\$33,014	\$0.07711
2	2019	2	444,133	\$35,597	\$0.08015
3	2019	3	427,123	\$33,742	\$0.07900
4	2019	4	409,947	\$31,850	\$0.07769
5	2019	5	456,929	\$34,996	\$0.07659
6	2019	6	493,550	\$36,154	\$0.07325
7	2019	7	537,723	\$37,595	\$0.06991
8	2019	8	269,401	\$18,318	\$0.06799
9	2019	9	551,870	\$52,478	\$0.09509
10	2019	10	433,463	\$31,249	\$0.07209
11	2019	11	196,500	\$14,236	\$0.07245
12	2019	12	214,217	\$15,823	\$0.07387

* Base Revenue reflects the applicable rate schedules' non-fuel revenues,
excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

Rule R8-69(f)(l)(i) – Projected NC retail sales for the rate period

Rule R8-69 (f) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(i) Projected North Carolina retail monthly kWh sales for the rate period.

The Company's projected North Carolina retail monthly kWh sales for the rate period, February 1, 2021 through January 31, 2022, are provided in the following table:

MONTH	PROJKWH
Feb-21	340,872,589
Mar-21	329,818,573
Apr-21	320,045,339
May-21	322,234,094
Jun-21	384,346,040
Jul-21	434,868,808
Aug-21	377,236,594
Sep-21	375,587,010
Oct-21	301,448,936
Nov-21	336,259,566
Dec-21	384,553,491
Jan-22	418,095,809
TOTAL	4,325,366,850

Rule R8-69(f)(l)(vi) - Proposed DSM/EE and DSM/EE EMF riders

Rule R8-69 (0) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(vi) The requested DSM/EE rider and DSM/EE EMF rider and the basis for their determination

The Rate Design for DSM/EE Rider

Detailed information regarding the determination of the DSM/EE factors has been provided as a part of the attached testimony of Casey R. Lawson. The following table provides a summary of the Company's requested DSM/EE rates.

Customer Rate Class	DSM/EE Rate
Residential	0.0926 ¢/kWh
Small General Service & Public Authority	0.0960 ¢/kWh
Large General Service	0.0739 ¢/kWh
6VP	0.0000 ¢/kWh
NS	0.0000 ¢/kWh
Outdoor Lighting	0.0000 ¢/kWh
Traffic Lighting	0.0000 ¢/kWh

The Rate Design For DSM/EE EMF Rider

Detailed information regarding the determination of the DSM/EE EMF factors has been provided as a part of the attached testimony of Casey R. Lawson. The following table provides a summary of the Company's requested DSM/EE EMF rates.

Customer Rate Class	DSM/EE EMF Rate
Residential	0.0125 ¢/kWh
Small General Service & Public Authority	0.0238 ¢/kWh
Large General Service	0.0183 ¢/kWh
6VP	0.0000 ¢/kWh
NS	0.0000 ¢/kWh
Outdoor Lighting	0.0000 ¢/kWh
Traffic Lighting	0.0000 ¢/kWh

Rule R8-69(f)(1)(vii) - Projected NC retail sales for customers opting out of measures

Rule R8-69 (f) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(vii) Projected North Carolina retail monthly kwh sales for the rate period for all industrial and large commercial accounts, in the aggregate, that are not assessed the rider charges as provided in this rule.

The Company reviewed its customer records and identified that commercial customers choosing to "opt-out" consumed 47,883,016 kWh during the 12 months ended December 31, 2019. A similar review identified industrial sales of 1,489,048,855 kWh associated with customers electing to "opt-out". The following table provides the Company's estimate of North Carolina retail monthly kWh sales in the aggregate, that will not be assessed DSM/EE rider charges as provided for in Commission Rule R8-69.

Month	Year	Total Monthly KWH
January	2019	130,539,591
February	2019	120,927,995
March	2019	123,679,611
April	2019	130,004,736
May	2019	145,651,469
June	2019	120,987,160
July	2019	129,919,714
August	2019	142,437,494
September	2019	99,475,300
October	2019	136,767,072
November	2019	131,127,066
December	2019	125,414,571
TOTAL		1,536,931,779

Rule R8-69(f)(I)(viii) - Supporting workpapers

Rule RE-69 (f) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(viii) All workpapers supporting the calculations and adjustments described above workpapers supporting calculations and adjustments have been attached to this document.

The testimony and exhibits of Casey R. Lawson are elements of this request. Information detailing the development of the Company's proposed DSM/EE and DSM/EE EMF rates are provided as a part of Ms. Lawson's testimony.

Appendix A: Non-Participating Customers

Non-Participant	Non-Participating Accounts
Consolidated Diesel	1
Domtar	1
Enviva Pellets	2
Flambeau Products Inc	1
Parkdale (Martin Mills)	1
KABA Ilco (Ilco-Unican)	1
Kapstone Kraft Paper	2
Lowe's Home Centers Inc	5
Nucor	1
Weyerhaeuser Paper	1
Hospira Inc	1
Wal-Mart Stores East	6
State of North Carolina	10

VERIFICATION

E-22, Sub 589

I, Corynne S. Arnett, Senior Vice President, Regulatory Affairs and Customer Experience, for Virginia Electric and Power Company, do solemnly swear that the facts stated in the foregoing *Application for Approval of Demand-Side Management and Energy Efficiency Cost Recovery Rider*, insofar as they relate to Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina, are true and correct to the best of my knowledge and belief.

Corynne S. Arnett
Corynne S. Arnett

COMMONWEALTH OF VIRGINIA)
) to wit:
City of Richmond)

The foregoing instrument was sworn to and acknowledged before me this 10th day of August, 2020.

Denise Ann Tunstall
Notary Public

My registration number is 7707756 and my commission expires:

April 30, 2024

