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1	PLACE: Dobbs Building, Raleigh, North Carolina
2	DATE: Monday, November 8, 2018
3	TIME: 9:50 a.m 9:59 a.m.
4	DOCKET NO: E-22, Sub 557
5	BEFORE: Commissioner Daniel G. Clodfelter, Presiding
6	Chairman Edward S. Finley, Jr.
7	Commissioner ToNola D. Brown-Bland
8	Commissioner Jerry C. Dockham
9	Commissioner James G. Patterson
10	Commissioner Lyons Gray
11	Commissioner Charlotte A. Mitchell
12	
13	IN THE MATTER OF:
14	Application of Virginia Electric and Power Company,
15	d/b/a Dominion Energy North Carolina for
16	Approval of Renewable Energy and Energy Efficiency
17	Portfolio Standard Cost Rider Pursuant to
18	N.C.G.S. § 62-133.8 and Commission Rule R8-67.
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20	VOLUME 2
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APPEARANCES: FOR VIRGINIA ELECTRIC and POWER COMPANY, d/b/a DOMINION ENERGY NORTH CAROLINA: Andrea Kells, Esq. Brett Breitschwerdt, Esq. McGuireWoods LLP 434 Fayetteville Street, Suite 2600 Raleigh, North Carolina 27613 FOR THE USING AND CONSUMING PUBLIC: Tim R. Dodge, Jr., Esq. Public Staff - North Carolina Utilities Commission 4326 Mail Service Center Raleigh, North Carolina 27699-4300

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1	EXHIBITS
2	IDENTIFIED/ADMITTED
З	Company Exhibit GEH-1 and
4	Company Exhibit GEH-2, Schedules 1 and 2 12/12
5	Company Exhibit AJM-1, Schedules 1 and 2 33/33
6	Company Exhibit RCR-1, Schedules 1 - 7 41/41
7	Company Supplemental Exhibit GEH-2,
8	Schedule 1 51/51
9	Company Supplemental Exhibit AJM-1,
10	Schedule 2 56/56
11	Company Supplemental Exhibit RCR-1,
12	Schedules 1 - 7 62/62
13	Company Second Supplemental
14	Exhibit GEH-1
15	Exhibit DENC 1 and Exhibit DENC 2
16	-
17	(All confidential schedules and/or portions
18	thereof are filed under seal)
19	
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PROCEEDINGS 1 2 COMMISSIONER CLODFELTER: Let's come back to We'll go on the record now and proceed with 3 order. Docket E-22, Sub 557. I'm Commissioner Dan Clodfelter 4 5 and have been assigned by the Chairman to preside over this hearing. With me today, as already noted in the 6 7 prior matter, and Chairman Finley; and Commissioners Brown-Bland, Dockham, Patterson, Gray and Mitchell. 8 9 We'll take up now for hearing Docket Number 10 E-22, Sub 557, which is In the Matter of an 11 Application of Virginia Electric and Power Company, 12 d/b/a Dominion Energy North Carolina for Approval of 13 Renewable Energy and Energy Efficiency Portfolio 14 Standard Cost Recovery Rider Pursuant to General 15 Statute § 62-133.8 and Commission Rule R8-67. 16 At this point, and as required by the State 17 Government Ethics Act, I remind all Commission members 18 of our duty to avoid conflicts of interest, and 19 inquire whether any member of the Commission has a 20 known conflict of interest with respect to this 21 docket? 22 (No response) Please let the record reflect that no 23

conflicts were identified.

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1On August 30, 2018, Dominion Energy North2Carolina filed an Application for approval of3Renewable Energy and Energy Efficiency Portfolio4Standard Cost Recovery Rider and its 2017 REPS5Compliance Report pursuant to Commission Rule R8-67,6along with the written direct testimonies and exhibits7of George Hitch consisting of 18 pages of direct8testimony, one Appendix, and including certain9confidential information as marked; the testimony of10Alan J. Moore consisting of five pages of direct11testimony, one Appendix, and one exhibit containing12confidential information; and the testimony of Robert13C. Rice consisting of seven pages of direct testimony14and one Appendix and seven schedules. I do not15believe there was any confidential information in16those.17MS. KELLS: That's correct, Commissioner.18COMMISSIONER CLODFELTER: On September 7,192018, the Commission issued an Order Scheduling20Hearing for this place and time, establishing21discovery guidelines, setting deadlines for the22parties to file testimony, and requiring Dominion to23publish notice of the hearing.24On September 28, the Public Staff filed a	_	
Renewable Energy and Energy Efficiency Portfolio Standard Cost Recovery Rider and its 2017 REPS Compliance Report pursuant to Commission Rule R8-67, along with the written direct testimonies and exhibits of George Hitch consisting of 18 pages of direct testimony, one Appendix, and including certain confidential information as marked; the testimony of Alan J. Moore consisting of five pages of direct testimony, one Appendix, and one exhibit containing confidential information; and the testimony of Robert C. Rice consisting of seven pages of direct testimony and one Appendix and seven schedules. I do not believe there was any confidential information in those. MS. KELLS: That's correct, Commissioner. COMMISSIONER CLODFELTER: On September 7, 2018, the Commission issued an Order Scheduling Hearing for this place and time, establishing discovery guidelines, setting deadlines for the parties to file testimony, and requiring Dominion to publish notice of the hearing.	1	On August 30, 2018, Dominion Energy North
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16 those. 17 MS. KELLS: That's correct, Commissioner. 18 COMMISSIONER CLODFELTER: On September 7, 19 2018, the Commission issued an Order Scheduling 20 Hearing for this place and time, establishing 21 discovery guidelines, setting deadlines for the 22 parties to file testimony, and requiring Dominion to 23 publish notice of the hearing.	14	and one Appendix and seven schedules. I do not
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22 parties to file testimony, and requiring Dominion to 23 publish notice of the hearing.	20	Hearing for this place and time, establishing
23 publish notice of the hearing.	21	discovery guidelines, setting deadlines for the
	22	parties to file testimony, and requiring Dominion to
24 On September 28, the Public Staff filed a	23	publish notice of the hearing.
	24	On September 28, the Public Staff filed a

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motion to amend the procedural schedule. The
 Commission granted that motion in an Order - changing
 the dates for intervention, direct and rebuttal
 prefiled testimony, expert witness hearing - issued by
 the Commission on October 2, 2018.

On October 15, Dominion filed supplemental 6 7 testimony and confidential exhibits of George Hitch 8 consisting of three pages of supplemental testimony 9 and one confidential exhibit; Alan J. Moore consisting 10 of five pages and one exhibit containing confidential information; and Robert C. Rice, three pages and one 11 12 exhibit, again with no confidential information in 13 Mr. Rice's filing.

14On October 17, Dominion filed a corrected15page 3 of the supplemental testimony of George Hitch.

16 On October 19, the Public Staff filed the 17 Affidavits of Evan Lawrence consisting of six pages 18 and one Appendix, and Jenny Li consisting of four 19 pages and one Appendix.

20 On October 24, Dominion filed its Affidavits 21 of Publication of Public Notice as required.

22 On October 30, Dominion filed the second 23 supplemental testimony and confidential exhibits of 24 George Hitch consisting of three pages of testimony

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and one confidential exhibit. 1 On October 30, the Public Staff filed the 2 Revised Affidavit of Evan Lawrence consisting of six 3 pages and one Appendix. 4 On November 5, the Public Staff filed a 5 Joint Motion -- well, the parties filed a Joint Motion 6 7 to Excuse Witnesses. And on November 5, an Order was 8 issued granting that Joint Motion to Excuse Witnesses. Participation by the Public Staff is 9 10 recognized pursuant to G.S. § 62-15. The record does not reflect that there are 11 12 any intervenors in this docket. So I'll call on counsel now for the parties 13 14 to make their appearances for the record, beginning with Dominion. 15 16 MS. KELLS: Thank you, Presiding 17 Commissioner Clodfelter and Commissioners. My name is 18 Andrea Kells. I'm with the Law Firm of McGuireWoods 19 appearing on behalf of Dominion Energy North Carolina. 20 Also appearing today on behalf of the Company is Brett Breitschwerdt with the Law Firm of McGuireWoods. 21 And 22 also here with us today is Mr. Horace Payne and Ms. Teirra Everette, in-house counsel with the Company. 23 24 COMMISSIONER CLODFELTER: Glad to have you

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1	with us today.
2	MR. BREITSCHWERDT: I'm Mr. Breitschwerdt.
3	COMMISSIONER CLODFELTER: Right. I didn't
4	know why you were standing. You've already been
5	introduced.
6	(Laughter)
7	MR. BREITSCHWERDT: As a courtesy
8	following Chairman Finley's noting my appearance.
9	(Laughter)
10	COMMISSIONER DOCKHAM: How does he look?
11	(Laughter)
12	COMMISSIONER CLODFELTER: Commissioner
13	Dockham says you look very nice today.
14	(Laughter) .
15	MR. BREITSCHWERDT: Thank you, sir.
16	MR. DODGE: Good morning, Commissioners.
17	I'm Tim Dodge with the Public Staff. We represent the
18	Using and Consuming Public. Normally appearing in
19	this docket today would be Robert Josey but he is at
20	home with his wife, Nikki, celebrating the first week
21	of their new son. Davis Bruce Josey was born last
22	Friday. Both Nikki and the baby are doing well.
23	COMMISSIONER CLODFELTER: Are there any
24	preliminary matters we need to take up?

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1 MS, KELLS: No, sir. And I don't know COMMISSIONER CLODFELTER: 2 that there's any public witnesses here. We had the 3 public hearing on Monday but I don't know if we have 4 anyone here today. I don't see anyone. 5 Correct? We haven't identified anyone. MR. DODGE: 6 7 COMMISSIONER CLODFELTER: Then the case is with the Applicant. 8 9 MS. KELLS: Thank you, Commissioner 10 Clodfelter. I'd first like to identify the Company's Application filed August 30, 2018, as Exhibit DENC 1 11 12 and would ask that it be included in the record in the 13 case and received into evidence. And, with your 14 permission, Commissioner, since you detailed all the 15 pages and confidentiality of the testimonies and 16 exhibits, I'll just list them briefly and not through 17 all that detail, okay. 18 I'll go through the testimonies and exhibits 19 of the Company's witnesses who have been excused from 20 appearing today briefly, and ask that the testimonies 21 and appendices be copied into the record as if given 22 orally from the stand, and that the exhibits and 23 schedules filed in support of that testimony be 24 identified as prefiled and received into evidence.

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So that would be in support of the 1 Application, the direct testimony of George E. Hitch 2 with exhibits including confidential information; 3 direct testimony of Alan J. Moore with two schedules 4 including confidential information; direct testimony 5 of Robert C. Rice, seven schedules, all of which were 6 7 public. And then the supplemental testimony filed on 8 October 15, 2018, of George Hitch with one 9 confidential schedule; Alan J. Moore with one 10 confidential schedule; and Robert C. Rice with seven 11 schedules, again all of which were public. 12 Also included on October 17, 2018, the 13 corrected page 3 to the supplemental testimony of 14 George E. Hitch. 15 And on October 30, 2018, the second 16 17 supplemental testimony of George E. Hitch with one exhibit, which was confidential. 1.8 Finally, I would ask that the Company's 19 letter in lieu of rebuttal testimony filed on 20 November 2, 2018, be identified as Exhibit DENC 2 and 21 included in the record and received into evidence. 22 And at this time would ask that all of the 23 24 testimony and appendices be copied into the record and NORTH CAROLINA UTILITIES COMMISSION

all of the supporting exhibits be received into 1 2 evidence. And that concludes the Company's case. COMMISSIONER CLODFELTER: 3 If there is no objection, then that motion will be allowed as made. 4 MS. KELLS: 5 Thank you. (WHEREUPON, Company Exhibit GEH-1 6 7 and Company Exhibit GEH-2, 8 Schedules 1 and 2, are marked for 9 identification as prefiled and received into evidence.) 10 11 (Confidential pages filed under seal.) 12 (WHEREUPON, the prefiled direct 13 testimony of is copied into the record as if given orally from the 14 15 stand.) 16 1.7 18 19 20 21 22 23 24

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DIRECT TESTIMONY OF GEORGE E. HITCH ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

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 George E. Hitch, and my business address is 5000 Dominion
5		Boulevard, Glen Allen, Virginia. I am a Senior Market Originator for
6		Dominion Energy North Carolina and Dominion Energy Virginia.
-	0	
7	Q.	Please describe your current responsibilities for the Company.
8	А.	I am part of the team responsible for developing Dominion Energy North
9 [.]		Carolina's short-term compliance strategy for the North Carolina Renewable
10		Energy and Energy Efficiency Portfolio Standard ("REPS"), as well as the
11		Virginia Renewable Energy Portfolio Standards ("REPS"). My
12		responsibilities include developing the Company's Rule R8-67(b) REPS
13		Compliance Plan and Rule R8-67(c) REPS Compliance Report. I am also
14		responsible for managing the Company's capacity, energy, and renewable
15		energy certificate ("REC") portfolios.
16	Q.	What is the purpose of your testimony?

A. My testimony supports the Company's request to recover all reasonable and
prudent incremental REPS compliance costs. More specifically, the purpose

1 of my testimony is to describe the Company's REPS compliance activities 2 under review in this proceeding and the costs the Company has incurred, or 3 will incur, in support of its compliance efforts with North Carolina's REPS 4 under N.C.G.S. § 62-133.8. My testimony supports the Company's 5 incremental REPS compliance costs incurred for calendar year 2017 and 6 future years' compliance, and also forecasts the incremental REPS costs the 7 Company expects to incur during the February 1, 2019 through January 31, 8 2020 rate period ("Rate Period"). Company Witness Alan J. Moore provides 9 support for the Company's adjusted Rate Period proposed in this proceeding. 10 **O**. Are you sponsoring any exhibits or schedules in support of your 11 testimonv? 12 Yes. Company Exhibit GEH-1 is the Company's 2018 REPS Compliance A. 13 Report for calendar year 2017 REPS compliance. Company Exhibit GEH-2 14 consists of two schedules, Schedule 1 and 2. (Exhibits GEH 1-2 provided in 15 public and confidential versions filed under seal). Both the Company's 2018 16 REPS Compliance Report and my Schedules 1 and 2 were prepared by me 17 and are accurate and complete to the best of my knowledge and belief. 18 Schedule 1 provides actual REPS compliance costs, by source, that the 19 Company has incurred during the July 1, 2017 to June 30, 2018 experience 20 modification factor true up period ("EMF True Up Period"), as further 21 described in the Company's Application and later in my testimony. My 22 Schedule 2 provides REPS compliance costs, by source, that the Company

projects to incur during the Rate Period in support of compliance with the
 REPS.
 Q. Can you please describe the Company's REPS obligations under

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5	ν.	Can you please describe the Company's KET's obligations under
4		N.C.G.S. § 62-133.8?
5	А.	Pursuant to N.C.G.S. § 62-133.8, ¹ as an electric power supplier, the
6		Company ² is required to comply with the overall REPS requirement ("Total
7		Obligation") by submitting for retirement a total volume of RECs in each
8		calendar year that is equivalent to the following percentages of its North
· 9		Carolina retail sales in the prior year:
10		• In 2012, 2013, and 2014, three percent (3%);
11		• In 2015, 2016, and 2017, six percent (6%);
12		• In 2018, 2019, and 2020, ten percent (10%); and
13		• In 2021 and thereafter, twelve and one-half percent (12.5%).
14		Furthermore, each electric power supplier must comply with the requirements
15		of N.C.G.S. § 62-133.8(d), (e), and (f) (individually referred to as the "Solar
16		Set-Aside," "Swine Waste Set-Aside," and "Poultry Waste Set-Aside,"
17		respectively). These provisions of the overall REPS require that within the
18		Total Obligation described above, each electric power supplier is to ensure
19		that specific quantities of qualifying solar RECs, swine waste RECs, and

¹ In its Order Clarifying Electric Power Suppliers' Annual REPS Requirements, issued on November 26, 2008, in Docket No. E-100, Sub 113, the Commission clarified that the calculation of these requirements for each year shall be based upon the electric utility's North Carolina retail sales for the prior year.

² As discussed later in my testimony, the REPS requirements described in this testimony and accompanying Schedules reflect the REPS requirements of the Company's retail customers only.

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1	poultry waste RECs are also submitted for retirement. The Company
2	generally refers to its Total Obligation net of the three set-asides as its
3	"General Requirement."
4	To comply with the Solar Set-Aside, each electric power supplier is required
5	to submit for retirement a volume of qualifying solar RECs equivalent to the
6	following percentages of its North Carolina retail sales in the prior year:
7	• In 2010 and 2011, two-hundredths of one percent (0.02%);
8	• In 2012, 2013, and 2014, seven-hundredths of one percent (0.07%);
9	• In 2015, 2016, and 2017, fourteen-hundredths of one percent (0.14%);
10	and
·11	• In 2018 and thereafter, two-tenths of one percent (0.2%).
12	To comply with the Swine Waste Set-Aside, each electric power supplier is
13	also required to submit for retirement a volume of qualifying swine waste
14	RECs equivalent to its pro-rata share of total retail electric power sold in
15	North Carolina multiplied by the statewide, aggregate swine set-aside
16	requirement. ³ The Company's Swine Waste Set-Aside requirements, as most
17	recently modified by the Commission, ⁴ are as follows:

³ In its Order on Pro Rata Allocation of Aggregate Swine and Poultry Waste Set-Aside Requirements and Motion for Clarification in Docket No. E-100, Sub 113 (March 31, 2010), the Commission approved the electric power suppliers' proposed pro-rata allocation of the statewide aggregate swine and poultry waste set-aside requirements, such that the aggregate requirements will be allocated among the electric power suppliers based on the ratio of each electric power supplier's prior year retail sales to the total statewide retail sales.

⁴On October 16, 2017, the Commission issued an Order delaying the initial Swine Waste Set-Aside requirement until 2018 and delaying the scheduled increase in the poultry requirement by one year. Order Modifying the Swine and Poultry Waste Set-Aside Requirements and Providing Other Relief at 5, Docket No. E-100, Sub 113 (October 16, 2017).

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1	• In 2017 and 2018, its pro-rata share of seven-hundredths of one
2	percent (0.07%) of the total retail electric power sold in North Carolina
3	in the year prior;
4	• In 2019, 2020, and 2021, its pro-rata share of fourteen-hundredths of
5	one percent (0.14%) of total retail electric power sold in North
6	Carolina in the year prior; and
7	• In 2022 and thereafter, its pro-rata share of two-tenths of one percent
8	(0.2%) of total retail electric power sold in North Carolina in the year
9	prior.
10	Finally, each electric power supplier is also to submit for retirement a volume
11	of qualifying poultry waste-to-energy RECs equivalent to its pro-rata share of
12	the aggregate poultry set-aside obligation. The Company's Poultry Waste
13	Set-Aside requirements, as modified by the Commission, are as follows:
14	• In 2017, its pro-rata share of 170,000 MWh;
15	• In 2018, its pro-rata share of 700,000 MWh; and
16	• In 2019 and each year thereafter, its pro-rata share of 900,000 MWh. ⁵
17	The Company's pro-rata share will be determined by averaging three years of
18	historic retail sales. ⁶ The resulting allocation will be held constant for three
19	years. For example, in 2017 and 2018, the Company's pro-rata share will be

⁵ In its Order Establishing Method of Allocating the Aggregate Poultry Waste Resource Set-Aside Requirement, issued on April 18, 2016, in Docket No. E-100, Sub 113, the Commission ordered that, starting with calendar year 2016, the calculation of the requirements for each compliance year shall be based upon the electric utility's North Carolina retail sales for the prior 3 years and held constant for 3 years.

years. ⁶ Order Addressing Poultry Compliance Shortfall and Requesting Comments on New Allocation Method at 7, Docket No. E-100, Sub 113 (October 19, 2015).

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the average of 2013, 2014, and 2015 retail sales. The North Carolina Renewable Energy Tracking System ("NC-RETS") administrator calculates each electric power supplier's proportionate share of the Poultry Waste Set-Aside Obligation using this methodology.⁷ **Please describe Dominion Energy North Carolina's REPS compliance for the prior compliance years.** The Company has fully complied with its prior years' REPS compliance obligations, including the 2015-2016 Poultry Waste Set-Aside compliance obligation, the 2010-2016 Solar Set-Aside compliance obligation and the 2013-2016 Total Obligations, for the 2010 through 2016 REPS compliance periods. The Commission approved the Company's 2011, 2012, 2013, 2014, 2015, 2016, and 2017 REPS Compliance Reports in Orders issued on

- 13 December 15, 2011,⁸ December 11, 2012,⁹ December 18, 2013,¹⁰ December
- 14 18, 2014,¹¹ December 16, 2015,¹² December 20, 2016,¹³ and December 13,
- 15 2017,¹⁴ respectively.

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⁷ On August 5, 2016, the Commission approved the NC-RETS administrator's proposed Poultry Waste Set-Aside allocation in the Order Establishing 2016, 2017, and 2018 Poultry Waste Set-Aside Requirement Allocation issued in Docket No. E-100, Sub 113.

⁸ Order Approving 2010 REPS Compliance, Docket No. E-22, Sub 475 (Dec. 15, 2011).

⁹ Order Approving 2011 REPS Compliance, Docket No. E-22, Sub 487 (Dec. 11, 2012).

¹⁰ Order Approving REPS and REPS EMF Riders and 2012 REPS Compliance, Docket No. E-22, Sub 503 (Dec. 18, 2013) ("2013 REPS Order").

¹¹ Order Approving REPS and REPS EMF Riders and 2013 REPS Compliance, Docket No. E-22, Sub 514 (Dec. 11, 2014) ("2014 REPS Order").

¹² Order Approving REPS and REPS EMF Riders and 2014 REPS Compliance, Docket No. E-22, Sub 525 (Dec. 16, 2015).

¹³ Order Approving REPS and REPS EMF Riders and 2015 REPS Compliance, Docket No. E-22, Sub 535 (Dec. 20, 2016).

¹⁴ Order Approving REPS and REPS EMF Riders and 2016 REPS Compliance, Docket No. E-22, Sub 544 (Dec. 13, 2017).

Q. Please discuss the Company's REPS obligations during the 2017
 Compliance Period under review and during the 2019 Compliance
 Period.

A. 4 For purposes of the 2017 compliance year, the Company will submit for 5 retirement a total of 239,213 RECs and 18,431 Energy Efficiency Credits 6 ("EECs") to meet its 2017 Total Obligation. Within this total, the Company 7 will submit for retirement 6,012 RECs to meet the Solar Set-Aside 8 requirement. The Company will also submit for retirement 5,628 RECs to 9 meet the Poultry Waste Set-Aside requirement. As noted above, the initial 10 year for compliance with the Swine-Waste Set Aside has been delayed 11 to 2018.

For purposes of the 2019 compliance year, the Company estimates that it will be required to submit for retirement a total of 415,631 RECs to meet its 2019 Total Obligation. Within this total, the Company estimates that it will be required to retire approximately 8,313 solar RECs, 2,910 swine waste RECs, and 29,796 poultry waste RECs.

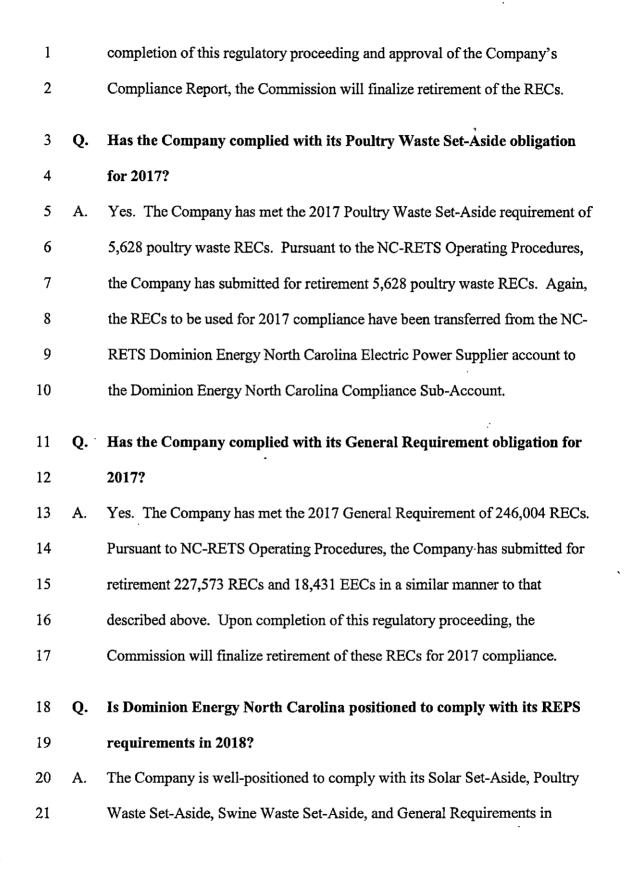
A. Yes. The Company met the 2017 Solar Set-Aside requirement of 6,012 solar
RECs. Pursuant to the NC-RETS Operating Procedures, the Company has
submitted for retirement 6,012 solar RECs. Specifically, the RECs to be used
for 2017 compliance have been transferred from the NC-RETS Dominion
Energy North Carolina Electric Power Supplier account to the Dominion
Energy North Carolina Compliance Sub-Account. As in past years, upon

Has the Company complied with its Solar Set-Aside obligation for 2017?

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2018.¹⁵ However, the Company projects that it may not have sufficient in-1 2 state Poultry Waste RECs to meet the Town of Windsor's in-state Poultry 3 Waste Set-Aside compliance obligation in 2018. The Company has executed 4 three (3) contracts that could each, individually, provide sufficient RECs in 5 2018. However, each supplier is significantly behind schedule due to delays 6 in securing sites, local community objections, and vendor equipment 7 shortfalls. The Company anticipates some Electric Power Suppliers may file a 8 joint motion to request a delay in the 2018 Swine Waste Set Aside and a 9 modification of the 2018 Poultry Waste Set Aside. 10 Please summarize the actions Dominion Energy North Carolina has 0. 11 undertaken to satisfy its current and future REPS requirements. 12 A. The Company continues to produce and procure RECs to satisfy its REPS 13 obligations. Specifically, the Company has taken the following actions: 14 (1) introduced additional energy efficiency programs that will generate 15 savings that can be counted towards the Company's REPS obligation; 16 (2) executed and continued negotiations for additional REC purchase 17 agreements with renewable facilities; (3) solicited renewable energy proposals 18 of various types, namely for swine waste-to-energy and poultry waste-to-19 energy resources; (4) participated in joint procurement activities with other 20 electric power suppliers, including the Poultry Waste REC Buyers Group and 21 the Swine Waste REC Buyers Group; and (5) participated in the annual and

¹⁵ In 2018, the Company estimates that it will be required to submit for retirement 416,745 RECs to meet its Total Obligation. Within this total, the Company is also required to retire the following: 8,335 solar RECs, 2,918 swine waste RECs, and 23,174 poultry waste RECs.

1 bi-annual stakeholder meetings organized by the Public Staff to facilitate 2 discussion regarding Swine Waste and Poultry Waste Set-Aside compliance. 3 The Company intends to contract for Poultry and Swine REC supply in excess 4 of the initial Swine Waste and Poultry Waste Set-Aside compliance 5 requirements to compensate for the experienced high failure rate of animal 6 waste to energy projects. The Company will evaluate the banking or sale of 7 Swine or Poultry RECs in excess of its compliance obligations to manage any 8 significant inventories that may develop. 9 **Q**. More specifically, what actions has Dominion Energy North Carolina 10 taken to procure or develop swine waste-to-energy resources to meet its 11 Swine Waste Set-Aside requirements? 12 A. In an ongoing effort to comply with the Swine Waste Set-Aside, the Company 13 has attempted to obtain swine waste RECs from facilities in Virginia, North 14 Carolina, and across the continental United States. The Company has 15 . contacted digester owners and operators, hog producers, and REC 16 marketers/brokers to determine if any swine waste RECs are available for

17 purchase by the Company.

18 Initially, the Swine Waste REC Buyers Group executed seven (7) long-term

19 contracts with a number of swine waste-to-energy developers. Four (4) of

20 these swine waste REC contracts were terminated in May and June 2012 due

- 21 to consistent failure by the developers to meet project milestones and to
- 22 demonstrate progress toward commercial operation. Because of these
- 23 terminations, the Company continues to conduct new searches for other swine

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1		waste REC suppliers in North Carolina and across the nation. Dominion
2		Energy North Carolina has spent considerable time and effort in its attempts to
3		locate operational swine waste digesters in the continental United States.
4		In January 2016, the Company executed a contract with Orion Energy
5		Marketing & Consulting, Inc. ("Orion") for sufficient swine waste RECs to
6		meet compliance during the period 2017 to 2021. Orion made a partial
7		delivery of 2016 vintage RECs, four complete quarterly deliveries in 2017,
8		and two complete quarterly deliveries to date in 2018. Orion is currently
9		meeting all contractual obligations. The Company continues to work with the
10		Swine Waste REC Buyers Group to secure additional swine RECs that could
11		be banked for future use or used for compliance.
		· · · · · · · · · · · · · · · · · · ·
12	Q.	Also, what actions has Dominion Energy North Carolina undertaken to
	Q.	-
12	-	Also, what actions has Dominion Energy North Carolina undertaken to
12 13	-	Also, what actions has Dominion Energy North Carolina undertaken to procure or develop poultry waste-to-energy resources in order to satisfy
12 13 14	_	Also, what actions has Dominion Energy North Carolina undertaken to procure or develop poultry waste-to-energy resources in order to satisfy its Poultry Waste Set-Aside requirements?
12 13 14 15	_	Also, what actions has Dominion Energy North Carolina undertaken to procure or develop poultry waste-to-energy resources in order to satisfy its Poultry Waste Set-Aside requirements? The Company has worked actively and diligently to comply with its Poultry
12 13 14 15 16	_	Also, what actions has Dominion Energy North Carolina undertaken to procure or develop poultry waste-to-energy resources in order to satisfy its Poultry Waste Set-Aside requirements? The Company has worked actively and diligently to comply with its Poultry Set-Aside requirements for the Company and the Town of Windsor. The
12 13 14 15 16 17	_	Also, what actions has Dominion Energy North Carolina undertaken to procure or develop poultry waste-to-energy resources in order to satisfy its Poultry Waste Set-Aside requirements? The Company has worked actively and diligently to comply with its Poultry Set-Aside requirements for the Company and the Town of Windsor. The Company, after searching the REC market for available in-state RECs,
12 13 14 15 16 17 18	_	Also, what actions has Dominion Energy North Carolina undertaken to procure or develop poultry waste-to-energy resources in order to satisfy its Poultry Waste Set-Aside requirements? The Company has worked actively and diligently to comply with its Poultry Set-Aside requirements for the Company and the Town of Windsor. The Company, after searching the REC market for available in-state RECs, concluded that joining the Poultry Waste REC Buyers Group was the most

22 waste contracts and the Company, as a part of this group, executed three (3)

1 long-term contracts for the Town of Windsor's in-state requirements. One 2 (1) of these contracts was terminated by mutual agreement with the supplier 3 in September 2013. The remaining long-term contracts will not produce any 4 significant poultry waste RECs until late 2018. At this time, the Company 5 believes it can meet the Town of Windsor's in-state Poultry Waste Set-Aside 6 requirement for 2018 only if the Commission delays the scheduled increase 7 from the initial 170,000 MWhs to 700,000 MWhs by one year, as it did for 8 compliance years 2015, 2016 and 2017. The Company also believes it is 9 likely to have sufficient RECs for the Town of Windsor's in-state Poultry 10 Waste Set-Aside requirement for 2019 and 2020. 11 The Company has sufficient poultry waste RECs in NC-RETS to comply 12 with both Dominion Energy North Carolina's and the Town of Windsor's 13 out-of-state Poultry Waste Set-Aside requirements for years 2017-2021. 14 0. Please also provide an update on the Company's efforts to comply with its 15 General Requirement in 2018. 16 Α. The Company is well-positioned to comply with its General Requirement, and 17 Total Obligation, in 2018. The Company's efforts to comply with the General 18 Requirement and Total Obligation include its continued implementation of 19 energy efficiency programs and the purchase of RECs from renewable energy 20 facilities. As allowed by Senate Bill 3, Dominion Energy North Carolina 21 continues to find that purchasing out-of-state RECs to achieve all aspects of

its Total Obligation is the most cost-effective REPS compliance option for the

23 Company and its customers.

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2		Dominion Energy North Carolina's and the Town of Windsor's General
3		Requirements for 2018.
4	Q.	Please also provide an update on the Company's efforts to comply with its
5		Solar Set-Aside requirement in 2018.
6	A.	The Company is well-positioned to comply with its Solar Set-Aside
7		requirement in 2018. The Company has also purchased enough RECs to
8		comply with in-state Solar Set-Aside requirements for the Town of Windsor
9		in 2018-2021.
10	Q.	Is the Company continuing to execute additional REC purchase
11		agreements?
12.	A.	Yes. The Company continues to execute additional REC purchase
13		agreements, as needed, to meet its future REPS General Obligation and set-
14		aside requirements. The Company addresses its REPS compliance strategy in
15		its 2018 REPS Compliance Plan, which was filed as an Appendix to the
16		Company's 2018 Integrated Resource Plan Update on May 1, 2018, in Docket
17		No. E-100, Sub 157.
18	Q.	What are the Company's costs associated with REPS compliance during
19	· ·	the EMF true up period and the upcoming Rate Period?
20	A.	Costs requested to be recovered include REC costs, as well as other
21		incremental REPS compliance expenses (e.g., Renewable Energy Tracking
22		System fees) (collectively, "Other Incremental Costs"). Both REC expenses
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The Company has sufficient RECs in NC-RETS to comply with both

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and Other Incremental Expenses incurred after June 30, 2018, will be trued up
and recovered as part of the Company's EMF in its 2019 REPS cost recovery
proceeding. My Exhibit 2, Schedule 1 presents the Company's reasonable
and prudently-incurred incremental REPS Compliance Costs during the EMF
True Up Period. My Exhibit 2, Schedule 2 presents the Company's forecasted
incremental REPS compliance costs projected to be incurred during the Rate
Period.

8 Q. Has the Company made any purchases of renewable energy as part of its 9 compliance strategy?

A. No. The Company has not made any bundled renewable energy purchases to
date. For this reason, 100 percent of the Company's incurred REC costs are
"incremental costs" recoverable through the REPS Rider. While the
Company presents its avoided cost capacity and energy rates in its 2018 REPS
Compliance Plan, these avoided costs were not required to determine the
incremental costs of Dominion Energy North Carolina's REC purchases for
recovery in this proceeding.

Q. In addition to REC costs, please explain the Other Incremental Costs of
REPS compliance that the Company seeks to recover in this proceeding?
A. My Exhibit 2, Schedules 1 and 2 identify the Other Incremental Costs

20 that the Company has incurred in association with REPS compliance.

- 21 Other Incremental Costs represent the Company's direct and non-labor
- 22 costs associated with REPS compliance, including the Company's
- 23 subscription to NC-RETS, internal REC tracking software costs, and

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1		REC broker fees. The Company is not seeking to recover any
2		incremental internal labor costs associated with administration of
3		REPS compliance for either the EMF true up period or forecasted Rate
4		Period in this proceeding. ¹⁶
5		The Company is also seeking to recover maintenance and fuel costs
6		associated with its NC Microgrid Project located at its Kitty Hawk
7		District Office. The Microgrid was dedicated and local operation
8		commenced in July 2014, and a small-scale fuel cell was added in July
9		2015. As further explained by Company Witness Moore, the
10		Company is requesting to recover the ongoing operations and
11		maintenance costs associated with the NC Microgrid Project during
12		the Rate Period.
13		As directed in the Commission's 2013 REPS Order, the Company
14		provided its third and final NC Microgrid Project study phase report as
15		Appendix C to the Company's 2017 REPS Report.
16	Q.	Please describe Dominion Energy North Carolina's internal REC
,17		Portfolio Management System noted above.
18	Α.	The Company uses the Environmental Management Account ("EMA") RECs
19		system developed by APX to support the Company's REPS compliance
20		efforts. The EMA system is a REC asset management tool, which includes
21		multiple REPS compliance functionalities, including supporting the

¹⁶ The Company is reviewing how to most appropriately track and allocate such costs and may seek to recover such incremental internal REPS labor costs in the future.

Company's REC portfolio management and valuation, allowing connectivity
 to NC-RETS, as well as managing post-trade settlement, credit, delivery, and
 compliance and invoicing services.

- Q. What portion of the EMA costs is the Company requesting to recover
 from its North Carolina customers as an incremental cost of REPS
 compliance?
- 7 A. Consistent with the approach since the 2014 REPS Order, the Company has 8 allocated the regulated portion of EMA system costs between Virginia and 9 North Carolina because the EMA system will also be used for REC 10 management in the Company's Virginia jurisdiction. Company Witness 11 Robert C. Rice supports the two-state factor 3 allocation approach, which 12 allocates 5.0619 percent of the regulated portion of the EMA system costs and 13 maintenance fees to the North Carolina jurisdiction. Company Witness 14 Moore presents the EMA costs included for recovery on Page 2 of his 15 Schedule 1 for the Rate Period Rider RP revenue requirement, and Page 3 of 16 his Schedule 2 for the True-up Period EMF Rider RPE revenue requirement.
- Q. Do the costs presented in your Exhibit No. 2, Schedules 1 and 2 also
 include REC costs incurred by the Company attributable to the Town of
 Windsor?
- A. No. The incremental REPS costs presented in my Schedules 1 and 2 are net
 of the REC costs incurred by the Company for the Town of Windsor's REPS
 compliance. As I have noted previously, the Company is uniquely situated in
 that it is statutorily authorized to use 100 percent out-of-state RECs to achieve

1		REPs compliance. In most instances, the Company has found purchasing out-
2		of-state RECs to be more cost effective than almost all other REPS
3		compliance options, even including using its utility-owned renewable
4		generating facilities for North Carolina REPS compliance. ¹⁷ In contrast to the
5		Company, the Town of Windsor is required to obtain 75% of its RECs from
6		in-state renewable resources. Thus, the Company has been required to
7		purchase in-state RECs that are specifically designated for the Town of
8		Windsor's REPS compliance. For this reason, the Company has directly
9		assigned specific REC costs to the Town of Windsor that may be used for its
10		REPS compliance, and has excluded them from the REPS costs that the
11		Company is requesting to recover from the North Carolina retail jurisdiction
12		in this proceeding.
13	Q.	Are the REPS Costs incurred for the Town of Windsor's REPS
14		compliance presented in the Company's REPS Plan and Report?
15	A.	Yes.
16	0	Do the costs presented in your Exhibit No. 2. Schedules 1 and 2 include
16	Q.	
17		non-REC costs incurred by the Company attributable to the Town of
18		Windsor?
19	A.	No. The Company's Other Incremental Costs requested to be recovered in
20		this proceeding do not include non-REC costs reasonably attributable to the

¹⁷ For example, the Company has found it more cost-effective to purchase out-of-state RECs for North Carolina REPS compliance and to sell the biomass RECs generated by the Company's biomass-fueled generating facilities at a higher price into other renewable energy compliance markets. The revenue generated from such REC sales is then credited back to North Carolina customers through base rates.

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1		Town of Windsor. While the Town of Windsor's compliance obligation
2		accounts for a very small percent of Dominion Energy North Carolina's non-
3		REC costs of REPS compliance, the Town of Windsor is still responsible for
4		certain of these costs. The Company has either assigned or allocated these
5		costs to the Town of Windsor. For example, broker's fees attributable to REC
6		transactions for the Town of Windsor's REPS compliance are directly
7		assigned to the Town of Windsor. For any Other Incremental Costs not
8		directly assignable to the Town of Windsor, the Company has adopted NC-
9		RETS' approach of allocating its costs based upon each electric power
10		supplier's load-ratio share determined on an energy basis for the prior
11		calendar year. As the Town of Windsor is approximately 1.2 percent of the
12		Company's total load-ratio share, the Company feels that this percentage of its
13		Other Incremental Cost of REPS compliance should be attributable to the
14		Town of Windsor and should not be recovered from North Carolina retail
15		customers. My Exhibit 2, Schedules 1 and 2 specifically exclude Other
16		Incremental Costs assigned or allocated to the Town of Windsor.
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Q. Are you satisfied that the Company's REPS compliance costs incurred
during the EMF true up period have been prudently incurred, and that
the projected Rate Period costs will be prudently incurred?

A. Yes. The Company has incurred and also projects to incur all of its costs
 associated with REPS compliance in a prudent manner. For example,
 Dominion Energy North Carolina has effectively evaluated its options and
 negotiated with counter-parties to procure reasonably-priced out-of-state

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1RECs for compliance with the Solar, Swine Waste, and Poultry Waste Set-2Asides. This also holds true for the General Requirements RECs. Dominion3Energy North Carolina has significant experience and expertise within the4national REC market, and the Company has taken full advantage of its5statutory ability to procure its full REC requirements from out-of-state6facilities. As noted above, this strategy has resulted in very reasonable7compliance costs for our customers.

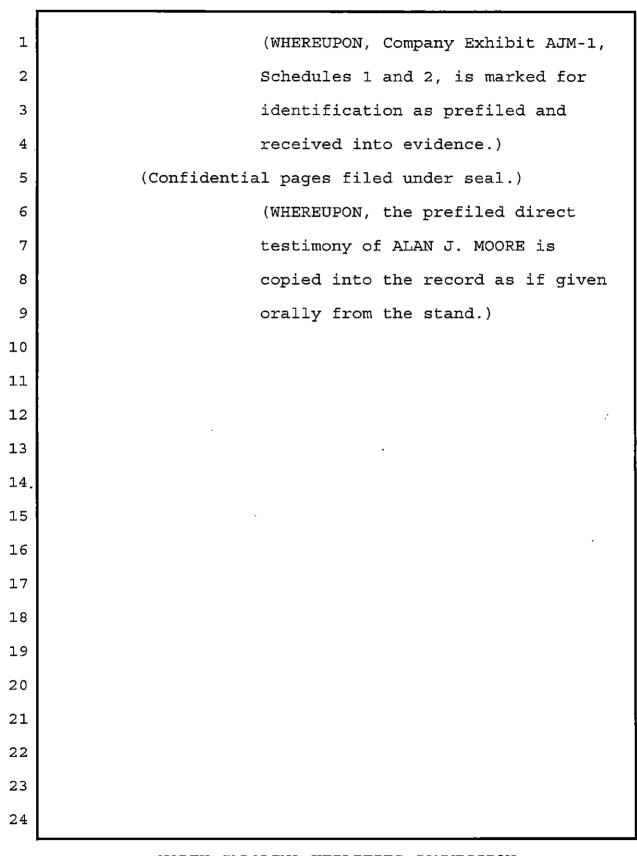
8 Q. Does this conclude your testimony?

9 A. Yes.

BACKGROUND AND QUALIFICATIONS OF GEORGE E. HITCH

I joined Dominion Energy (the "Company") in 2002 as an Hourly Trader. I have a Bachelor of Science Degree from Virginia Tech. I have been an Hourly Trader, Coordinator Hourly Trading and Generation Asset Trader at both the regulated utilities and Dominion Energy Marketing. I have traded physical and financial power, capacity and RECs in the spot and forward markets.

I am currently a Senior Market Originator and part of the group responsible for managing the Company's regulated capacity, energy and REC portfolios, and developing and executing compliance strategies for the Company's North Carolina Renewable Energy and Energy Efficiency Portfolio Standards and the Virginia Renewable Energy Portfolio Standards.



NORTH CAROLINA UTILITIES COMMISSION

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Dec 05 2018

DIRECT TESTIMONY OF ALAN J. MOORE ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

1	Q.	Please state your name, business address, and position with Virginia
2		Electric and Power Company ("Dominion Energy North Carolina," or
3		the "Company").
4	A.	My name is Alan J. Moore. I am a Regulatory Analyst III in the Regulatory
5		Accounting Department for Virginia Electric and Power Company doing
6		business in North Carolina as Dominion Energy North Carolina. My business
7		address is 701 East Cary Street, Richmond, Virginia 23219. A statement of
8		my background and qualifications is attached as Appendix A.
9	Q.	Please describe your area of responsibility with the Company.
10	A.	I am responsible for analyzing and calculating revenue requirements for the
11		Company.
12	Q.	What is the purpose of your testimony in this proceeding?
13	A.	My testimony supports the Company's request to recover all reasonable and
14		prudent incremental Renewable Energy and Energy Efficiency Portfolio
15		Standard ("REPS") compliance costs. North Carolina General Statute
16		("N.C.G.S.") § 62-133.8(h)(1) provides that the recoverable "incremental
17		cost" of REPS compliance includes "all reasonable and prudent costs incurred
18		by an electric power supplier" to comply with its REPS obligations "that are

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1	in excess of the electric power supplier's avoided costs other than those costs
2	recovered [through the demand side management rider] pursuant to N.C.G.S.
3	§ 62-133.9." North Carolina Utilities Commission ("NCUC" or the
4.	"Commission") Rule R8-67(e)(2) states that "[t]he cost of an unbundled
5	renewable energy certificate, to the extent that it is reasonable and prudently-
6	incurred, is an incremental cost and has no avoided cost component," and is,
7	therefore, eligible for full recovery through the REPS Rider. In addition to
8	recovery of all reasonable and prudent REPS compliance costs, N.C.G.S. §
9	62-133.8(h)(1)(b) provides that an electric power supplier may also recover
10	any investments in "research that encourages the development of renewable
11	energy, energy efficiency, or improved air quality, provided those costs do not
12	exceed one million dollars (\$1,000,000) per year."
10	

13 The purpose of my testimony is to address the development of the Company's 14 REPS Riders RP and RPE updated revenue requirements in support of the 15 Company's Application. Specifically, my testimony presents: (i) the 16 Company's forecasted revenue requirement for the Februrary 1, 2019 through 17 January 31, 2020 rate period ("Rate Period") to be recovered through the 18 Company's updated REPS rider, Rider RP; and (ii) the Company's revenue 19 requirement for the Company's experience modification factor ("EMF") true-20 up period of July 1, 2017, through June 30, 2018 ("EMF True Up Period"), to 21 be recovered through the Company's updated REPS EMF rider, Rider RPE. 22 The Company's Application and the pre-filed direct testimony of Company 23 Witness George E. Hitch support the Company's request to recover all

- reasonable and prudently-incurred REPS compliance costs incurred during the
 EMF True Up Period and projected to be incurred during the Rate Period.
- 3 Q. Why is the Rate Period proposed in this case different from previous
 4 years?

5	A.	Pursuant to NCUC Rule R8-67(e)(3), the Rate Period is the same as the period
6		during which the rider established under Commission Rule R8-55, the $\frac{1}{2}$
7		Company's fuel factor, is in effect. In previous years, the Company has
8		proposed Rider RP rates to be effective for a calendar year Rate Period,
9		consistent with the rate period previously used for fuel factor riders under
10		Rule R8-55. Based on discussions with the Public Staff following the
11		conclusion of the Company's 2017 rider proceedings, the Company is
12		proposing for updated Rider RP to be effective for a February 1, 2019 through
13		January 31, 2020 Rate Period. The Company is requesting this adjustment to
14		the annual Rate Period in order to extend the time for the Commission to issue
15		orders in the Company's three annual rider proceedings filed pursuant to
16		NCUC Rules R8-55, R8-67, and R8-69, respectively, and to then allow the
17		Company additional time to finalize rates and customer notices (including
18		allowing reasonable time for Public Staff review) prior to the updated annual
19		riders' effective date. The Company intends to continue to use a February 1
20		through January 31 rate period in future rider cases.

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1	Q.	Mr. Moore, are you sponsoring any exhibits or schedules in connection
2		with your testimony?
3	A.	Yes. Company Exhibit AJM-1, consisting of Schedules 1-2 (Schedules 1-2
4		provided in public and confidential versions filed under seal), was prepared
5		under my supervision and direction, and is accurate and complete to the best
6		of my knowledge and belief. My Schedule 1 supports the projected Rate
7		Period revenue requirement for Rider RP. My Schedule 2 presents the
8		revenue requirement for EMF Rider RPE for the True Up Period.
9	Q.	Please summarize the key components of the Rate Period Rider RP
10		revenue requirement presented in this case.
11	А.	The testimony and schedules of Company Witness Hitch provide the
12		forecasted Rate Period incremental costs related to the Company's compliance
13		with the REPS requirements of N.C.G.S. § 62-133.8(b), (d), (e) and (f). I
14		have used these cost projections to calculate the forecasted revenue
15		requirement for the REPS Rider RP to be recovered during the Rate Period in
16		this proceeding.
17	Q.	Is it your understanding that the cost information used to develop the
18		revenue requirements in this proceeding includes only Dominion Energy
19		North Carolina's incremental retail REPS compliance expenses and does
20		not include costs associated with any wholesale customers' REPS
21		compliance?
22	A.	Yes. Although the Company does provide REPS compliance services for the
23		Town of Windsor, as described by Company Witness Hitch in his pre-filed

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1		direct testimony, his Exhibit 2, Schedules 1 and 2 present the Company's
2		retail incremental REPS compliance costs, net of the costs assigned or
3		allocated to the Town of Windsor. Consistent with previous REPS rider
4		filings, the Company is not allocating any research costs associated with the
5		Company's microgrid research demonstration project located at the
6		Company's Kitty Hawk District Office ("NC Microgrid Project") to the Town
7		of Windsor.
8	Q.	Can you comment on the tax credits being refunded back to the
9		Company's customers?
10	А.	Yes. The final 20% amortization of the North Carolina Renewable Energy
11		Tax Credits ("RETC") was included in the 2017 REPS cost recovery
12		proceeding, in Docket No. E-22, Sub 544, for the rate year of January 1, 2018
13		through December 31, 2018. Therefore the current filing does not include any
14		RETC with the projected costs for the Rate Period. ¹
15	Q.	Please describe the recovery of previously incurred costs during the EMF
16		True Up Period through the REPS EMF Rider RPE requested in this
17		case.
18	A.	As noted above, the Company is requesting to fully recover its reasonable and
19		prudently-incurred incremental REPS compliance costs incurred during the
20		July 1, 2017, through June 30, 2018 EMF True Up Period. As described by
21		Company Witness Hitch, the EMF True Up Period costs proposed to be

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¹ N.C.G.S. § 105-129.16A. requires the NC RETC to be taken in five equal installments beginning with the taxable year in which the property is placed in service. The Company will credit the final one-fifth of the North Carolina RETC to retail customers through the current REPS Rider filing for the 2018 Rate Period.

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1		recovered include: (i) incremental REPS costs incurred during the current
2		EMF True Up Period to achieve REPS compliance for the current and future
3		reporting years; (ii) the Company's "Other Incremental Costs" of REPS
4		compliance; and (iii) actual costs and investment tax credits incurred through
5		the end of the True Up Period related to the Company's NC Microgrid
6		Project.
7	Q.	What is the total revenue requirement for Riders RP and RPE?
8	А.	As summarized on Page 1 of my Schedule 1, through Rider RP, the Company
8 9	A.	As summarized on Page 1 of my Schedule 1, through Rider RP, the Company is requesting recovery of projected REPS compliance costs of \$826,817. In
	A.	
9	A.	is requesting recovery of projected REPS compliance costs of \$826,817. In
9 10	A.	is requesting recovery of projected REPS compliance costs of \$826,817. In addition, the Company's EMF Rider RPE is presenting a revenue requirement
9 10 11	Α.	is requesting recovery of projected REPS compliance costs of \$826,817. In addition, the Company's EMF Rider RPE is presenting a revenue requirement in the amount of \$278,308. The combined revenue requirements for the two

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

15 A. Yes, it does.

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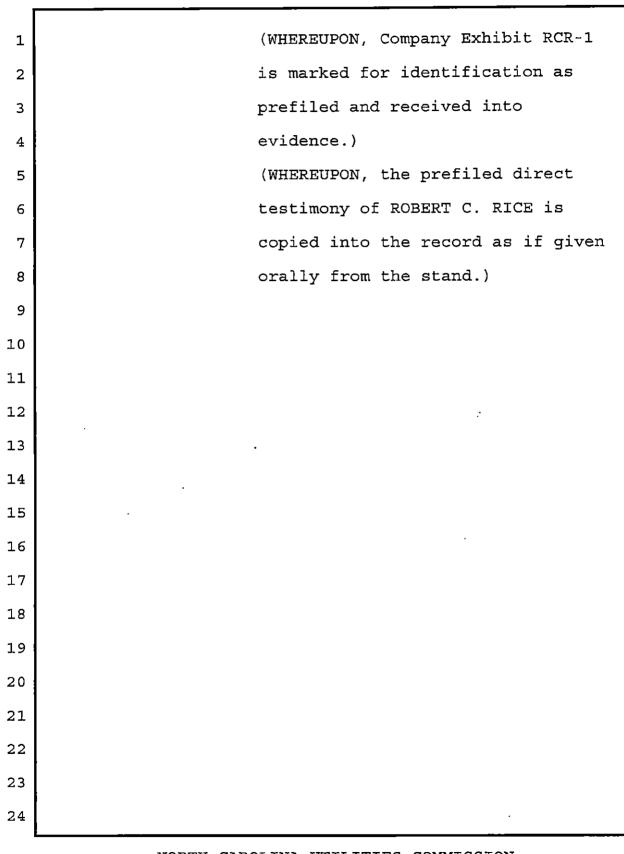
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BACKGROUND AND QUALIFICATIONS OF ALAN J. MOORE

Alan J. Moore received his undergraduate degree from Longwood University with a Bachelor of Science in Business Administration with an Accounting concentration in 2007. Mr. Moore received his Master's of Business Administration degree from Longwood University in 2015. Mr. Moore was hired by the Company in 2007 as an Internal Auditor prior to joining the Regulatory Accounting Department in April 2014. His current position of Regulatory Analyst III in the Regulatory Accounting Department includes responsibility for analyzing and calculating revenue requirements for Dominion Energy North Carolina rate proceedings.

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NORTH CAROLINA UTILITIES COMMISSION

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DIRECT TESTIMONY OF ROBERT C. RICE ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

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 Robert C. Rice. I am Manager – Customer Rates for Dominion
5		Energy North Carolina. My business address is One James River Plaza, 701
6		East Cary Street, Richmond, Virginia 23219. A statement of my background
7		and qualifications is attached as Appendix A.
8	.Q.	What is the purpose of your testimony in this case?
9	A.	My testimony supports the Company's request to recover all reasonable and
10		prudent incremental Renewable Energy and Energy Efficiency Portfolio
11		Standard ("REPS") compliance costs. The purpose of my testimony is to:
12		(i) describe the Company's approach to defining a "customer account" for
13		purposes of calculating the REPS riders; (ii) explain the Company's system-
14		level allocation approach for allocating the cost of the Environmental
15		Management Account RECs ("EMA") software; and (iii) present the
16		calculation of the Company's updated REPS rider, Rider RP, and the updated
17		Experience Modification Factor ("EMF") rider, Rider RPE. Proposed Rider
18		RP is designed to recover the Company's reasonable and prudent incremental

1		REPS costs forecasted to be incurred during the proposed February 1, 2019 -
2		January 31, 2020 rate period ("Rate Period"). Proposed Rider RPE is
3		designed to recover the Company's reasonable and prudent incremental REPS
4		costs incurred during the July 1, 2017 to June 30, 2018 EMF true up period
5		("EMF True Up Period"), as described in the Company's Application and the
6		prefiled direct testimony of Company Witness George E. Hitch. The
7		Company is requesting that the proposed Rider RP and Rider RPE become
8		effective for usage on February 1, 2019.
9	Q.	Mr. Rice, are you sponsoring any exhibits or schedules in connection with
10		your testimony?
11	A.	Yes. Company Exhibit No. RCR-1, consisting of Schedules 1 through 7, was
12		prepared under my supervision and is accurate and complete to the best of my
13		knowledge and belief.
14	Q.	How has Dominion Energy North Carolina defined a "customer" for the
15		purposes of developing Rider RP and Rider RPE?
16	A.	The Company has followed the same approach that the Commission approved
17		in the Company's most recent REPS Rider cost recovery proceeding and prior
18		cases. For purposes of developing the per-account REPS charges, the
19		Company has defined a "customer account" as a "service point" or
20		"application of a tariff." The following rate schedules are not considered
21		"accounts" for purposes of the per-account charge because these rate
22		schedules are generally secondary accounts and customers on these rate

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1		schedules will pay a per-account charge under another primary tariff
2		connected with these rate schedules:
3 4 5 6 7 8		 Residential Time Controlled Storage Water Heating (Schedule 1W) Residential Dual Fuel (Schedule 1DF) Outdoor Lighting (Schedule 26) County, Municipal or State – Traffic Control (Schedule 30T) Commercial Electric Heating (Schedule 7) Commercial Schedule SG (Schedule SG)
9		Further, if a customer has a service point on contiguous property with the
10		same service address, premise, and name, that account may be deemed to be
11		auxiliary and not subject to the REPS Riders RP and RPE. If the Company
12		identifies an account as an auxiliary account or if the Company is notified by
13		the customer that an account should be classified as an auxiliary account or
14		upon written notification from the customer, accounts meeting these criteria
15		will be coded in the billing system to allow the customer to be charged only a
16		single monthly REPS charge at the customer's primary service point. A
17		governmental customer for purposes of the application of the REPS charge is
18		considered a commercial account.
19	Q.	In determining the Company's incremental REPS compliance costs to be
20		recovered through its REPS Riders, has the Company addressed
21		allocation of any system-level costs to the North Carolina jurisdiction?
22	A.	Yes. While incremental REPS compliance costs are generally assigned to and
23		fully recoverable from the Company's North Carolina jurisdiction, the
24		Company has also recognized that, in certain unique circumstances, capital
25		investments made by the Company at a system level that are allocated

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between the Company's respective jurisdictions and are incremental to North
 Carolina REPS compliance should also be allocated between the Company's
 respective jurisdictions. The Company has determined that allocation of the
 costs of its investment in the EMA system represents an instance where such
 allocation is appropriate.

6 Q. Would you please explain the method used to allocate these system-level
7 EMA costs between Virginia and North Carolina jurisdictional
8 customers?

9 Α. Consistent with the approach first approved by the Commission in Docket 10 E-22, Sub 503 and followed in the Company's most recent cost recovery 11 proceeding, the Company has used its two-state factor three allocation 12 approach to determine the proper amount of EMA system costs to be allocated 13 to the North Carolina jurisdiction. This is an allocation factor based upon 14 relative energy sales between the customers served in Virginia and customers 15 served in North Carolina and is based on the twelve months ending December 16 31, 2017. The North Carolina energy sales component excludes the Town of 17 Windsor. Using this approach, the Company's Rider RP revenue requirement 18 for the forecasted Rate Period includes an allocated 5.0619% share of the 19 regulated portion of EMA costs for recovery from the Company's North 20 Carolina jurisdictional customers.

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1	Q.	Would you please discuss the calculation of the proposed Rider RPE to
2		collect for the EMF True Up Period?
3	A.	Rider RPE is calculated using the Rider RPE revenue requirement provided
4		by Company Witness Alan J. Moore, as shown in my Schedule 1. My
5		Schedule 2 presents the allocation of the Rider RPE revenue requirement
6		amongst the Company's residential, commercial, and industrial customer
7		classes. In 2017, House Bill 589 revised the residential 2015 and thereafter
8		REPS cost cap from \$34 to \$27 effective July 1, 2017. There were no
9		changes to the commercial or industrial cost caps. The annual revenue cap
10		was calculated by multiplying the revised applicable cost caps for each
11		customer class by the Company's forecasted average adjusted number of
12		customer accounts for the 2019 rate year. A cost cap allocation factor was
13		then calculated by dividing the annual REPS revenue cap for each class by the
14		total annual revenue cap established for all classes. This allocation factor was
15		then used to allocate the Company's REPS compliance requirement to each of
16		the three customer classes.

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17 The Company also incorporated an adjustment to allocate Energy Efficiency 18 Credit ("EEC") RECs to the customer class that created the EEC savings. The 19 EEC RECs can only be used to meet the Company's General Obligation REC 20 requirement; therefore, schedule 2 and schedule 4 have been divided between 21 General Obligation REC costs and all costs other than for General Obligation 22 RECs. Once the EECs were deducted according to the class that created the 23 EE savings, a new adjusted allocation factor was calculated and the Rider

RPE revenue requirement from my Schedule 1 was allocated to the customer
 classes based on the newly calculated allocation factor.

3 Q. Would you please discuss the calculation of the monthly RPE per 4 customer charges?

A. My Schedule 3 presents the total annual Rider RPE and then calculates the
monthly per-account customer charge for each customer class by dividing the
annual value by 12. This charge is then adjusted to account for the North
Carolina regulatory fee to calculate the final per-account customer charges
that will be shown for the residential, commercial, and industrial customer
classes in the rider.

Q. Would you please discuss the calculation of the proposed Rider RP to
collect during the Rate Period?

13 My Schedule 4 shows the total projected REPS compliance calculation for A. 14 Rider RP during the Rate Period. The methodology is the same as the 15 calculations for Rider RPE that I have just described, but uses forecasted EEC 16 savings, as well as a forecasted revenue requirement for the Rate Period. My 17 Schedule 1 shows the forecasted Rate Period revenue requirement to be 18 recovered through Rider RP. My Schedule 5 then calculates the monthly per-19 account customer charge for each customer class. This charge is then adjusted 20 for the North Carolina regulatory fee to calculate the final per-account 21 customer charges that will be shown in the Rider RP.

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1	Q.	Have you confirmed that the Company's proposed total monthly REPS
2		per-account customer charges to be recovered through Riders RP and
3		RPE do not exceed the per-account cost caps established in N.C.G.S. § 62-
4		133.8(h)(4)?
5	A.	Yes. My Schedule 6 presents the total monthly REPS per-account customer
6		charges to be recovered through Riders RP and RPE. These per-account
7		charges do not exceed the caps on allowable per-account annual charge
8		established in N.C.G.S. § 62-133.8(h)(4), as amended by Session Law 2017-
9		192, and satisfy the requirements of Commission Rule R8-67(e)(9).
10	Q.	Have you included the Company's proposed Riders RP and RPE in
11	×.	Schedule 7 of your pre-filed direct testimony?
12	А.	Yes. Schedule 7 comprises the tariff sheets showing the proposed Riders RP
13		and RPE, which, if approved as proposed, would be applicable for usage on
14		and after February 1, 2019.
15	Q.	Are you submitting any proposed revised tariffs to be effective during
16		January 2019?
17	A.	Yes. In order to effectuate the transition to a February 1 – January 31 Rate
18		Period, as further discussed in the direct testimony of Company Witness
19	-	Moore, the Company is proposing to maintain Rider RP as approved by the
20		Commission in the Company's previous REPS cost recovery proceeding, and
21		to reduce Rider RPE for all classes to zero during the period January 1 to
22		January 31, 2019. While this proposal does not require any revision to the
23		currently effective Rider RP tariff sheet, it does require that Rider RPE be

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1		revised to show a rate of zero. A tariff sheet showing that proposed change
2		for the month of January 2019 is shown at my Schedule 7, page 2 of 3.
3	Q.	Would you explain how the proposed Riders RP and RPE will impact
4		customers' bills?
5	A.	Per my Schedule 6, customers served on a residential rate will see a total
6		REPS charge on their bill of \$0.46 which is a decrease of \$0.03 per month
7		from the previous monthly REPS charge. Commercial customers will see a
8		\$2.48 charge per month on their bills resulting in a decrease of \$0.23 per
9		month from the previous monthly REPS charge, and an industrial customer
10		will see a charge of \$16.89 per month resulting in a decrease of \$1.23 per
11		month from the previous monthly REPS charge. Monthly billing schedules
12		will be prorated only if the number of days in the billing month is less than 26
13		or greater than 40.

14 Q. Does this conclude your prefiled direct testimony?

15 A. Yes, it does.

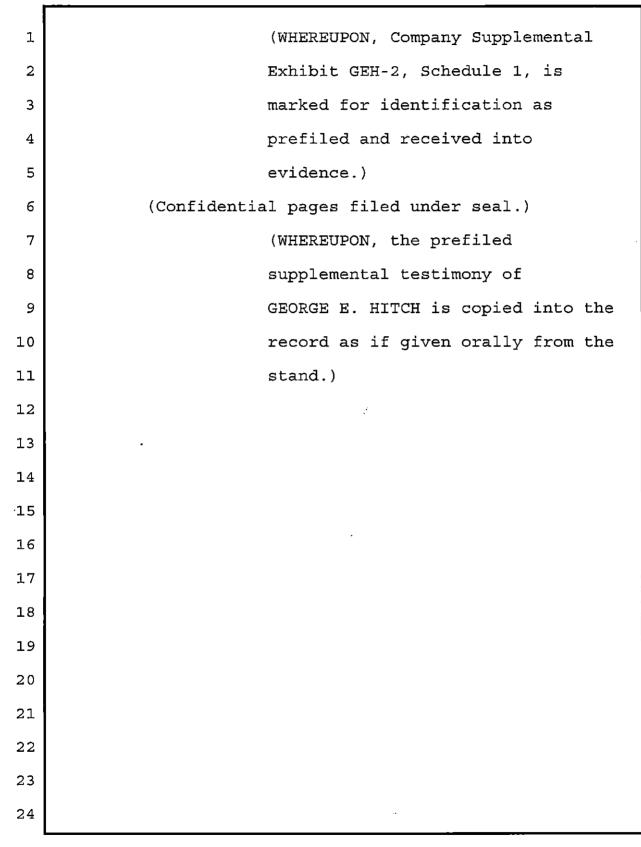
BACKGROUND AND QUALIFICATIONS OF ROBERT C. RICE

Robert C. Rice graduated from East Carolina University in 1987 with a Bachelor of Arts degree in Marketing. He was hired by Virginia Electric and Power Company in 1988. From 1988 to 1993, he worked in Commercial Operations in the Customer Service Department as a service representative designing overhead and underground facilities for residential, commercial and industrial customers. In 1993, he transferred to the Company's Energy Efficiency Department as an account manager for large industrial and governmental accounts. In 2001, Mr. Rice moved to the Company's rate department as a regulatory analyst. Effective January 1, 2009, he was appointed to Manager – Cost Allocation and Pricing managing the Load Research group. As of January 1, 2013, he was appointed to Manager – Cost Allocation and Pricing managing the non-traditional rate design group. As of October 1, 2014, he was appointed to Manager – Customer Rates group, the Load Research group and the Cost Allocation group.

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

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NORTH CAROLINA UTILITIES COMMISSION

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SUPPLEMENTAL TESTIMONY OF GEORGE E. HITCH ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

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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 George E. Hitch, and my business address is 5000 Dominion
5		Boulevard, Glen Allen, Virginia. I am a Senior Market Originator for
6	:	Dominion Energy North Carolina and Dominion Energy Virginia.
7	Q.	Are you the same George E. Hitch who previously prefiled direct
8		testimony, including schedules, in this proceeding?
9	А.	Yes. I prefiled direct testimony, Company Exhibit GEH-1 which is the
10		Company's 2018 REPS Compliance Report for calendar year 2017 REPS
11		compliance, and Company Exhibit GEH-2 consisting of two schedules,
12		Schedule 1 and 2. (Company Exhibits GEH 1-2 provided in public version
13		and confidential version filed under seal).
14	Q.	What is the purpose of your supplemental testimony in this proceeding?
15	А.	The purpose of my supplemental testimony is to explain the Company's
16		implementation of three changes in the EMF True-up Period costs due to
17		corrected information for the brokerage costs, the revenue from excess
18		renewable energy credit ("REC") sales, and the allocation factor used to

1		calculate the EMA maintenance fee. These adjustments only affect the EMF
2		True-up Period used to develop Rider RPE. There are no changes to the
3		Company's RP rate period costs that were supported by my direct testimony
4		filed on August 30, 2018.
5	Q.	Mr. Hitch, are you sponsoring any exhibits or schedules in connection
6		with your supplemental testimony?
7	A.	Yes. Company Supplemental Exhibit GEH-2, consisting of updated
8		Schedule 1 (Schedule 1 provided in public version and confidential version
9		filed under seal), was prepared under my supervision and direction and is
10		accurate and complete to the best of my knowledge and belief. Updated
11		Schedule 1 updates Schedule 1, Page 1 of my Company Exhibit GEH-2 as
12		filed with my direct testimony, and continues to present the Company's
13		reasonable and prudently-incurred incremental REPS Compliance Costs
14		during the EMF True-up Period. No changes to my Company Exhibit GEH-1,
15		to Schedule 1, Page 2 of my Company Exhibit GEH-2, or to Schedule 2 of my

16 Company Exhibit GEH-2, are required.

17 Q. First, can you comment on the corrected information for the brokerage
18 costs?

A. Yes. In reviewing the Company's records to respond to a Public Staff data
request, I determined that the Company inadvertently double counted a \$2,000
broker invoice in its initial cost recovery application filed on August 30, 2018,
in this proceeding, resulting in overstated brokerage costs for the EMF period.
To correct this error, the Company is reducing the brokerage cost by \$2,000.

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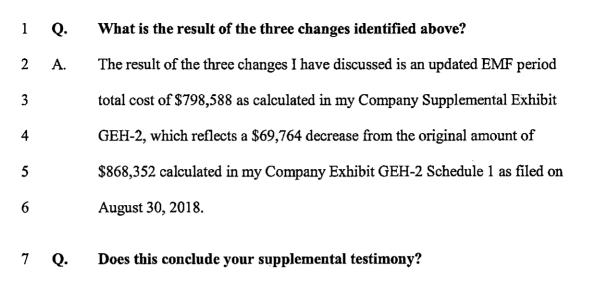
Corrected Page 3 to Supplemental Testimony of George E. Hitch Filed October 17, 2018

1		The correct EMF period brokerage cost, as shown in Company Supplemental
2		Exhibit GEH-2, is \$19,053.
3	Q.	Mr. Hitch, what change are you making to the credit for excess REC
4		sales?
5	А.	In reviewing the Company's records to respond to a Public Staff data request,
6		I determined that Schedule 1, Page 1 of my Company Exhibit GEH-2
7		inadvertently only recognized the margin on excess REC sales associated with
8		the sale of 225,953 out-of-state wind RECs in April 2018, rather than the total
9		revenue generated by the excess REC sales associated with this transaction.
10		Company Supplemental Exhibit GEH-2 reflects the total sales revenue of
11		103,726 (40,941 * 0.50 = 20,470.50 and 185,012 * 0.45 = 83,255.40).
12	Q.	Mr. Hitch, are you presenting any other changes to the updated EMF
13		revenue requirement at this time?
14	А	Yes. In preparing this Supplemental Testimony, I discovered that in
15		Schedule 1, Page 1 of my Company Exhibit GEH-2, I used the wrong
16		allocation factor. There is a \$22 increase to the EMA maintenance fee to
17		reflect the application of the 5.0619 percent allocation factor that was used in
18		calculating the Rate period Rider RP revenue requirement and the True-up
19		Period EMF Rider RPE revenue requirement, but not used in Company
20		Exhibit GEH-2 Schedule 1, which my Company Supplemental Exhibit GEH-2
21		updates.

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8 A. Yes, it does.

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(WHEREUPON, Company Supplemental Exhibit AJM-1, Schedule 2, is marked for identification as prefiled and received into evidence.) (Confidential pages filed under seal.) (WHEREUPON, the prefiled supplemental testimony of ALAN J. MOORE is copied into the record as if given orally from the stand.) ·13

NORTH CAROLINA UTILITIES COMMISSION

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SUPPLEMENTAL TESTIMONY OF ALAN J. MOORE ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

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 Alan J. Moore. I am a Regulatory Analyst III in the Regulatory
5		Accounting Department for Dominion Energy North Carolina. My business
6		address is 701 East Cary Street, Richmond, Virginia 23219.
7	Q.	Are you the same Alan J. Moore who previously prefiled direct
8		testimony, including schedules, in this proceeding?
9	А.	Yes. I prefiled direct testimony and Company Exhibit AJM-1, consisting of
10		Schedules 1-2 on August 30, 2018, in support of the Company's Application
11		to recover the reasonable and prudently incurred cost of its North Carolina
12		Renewable Energy and Efficiency ("REPS") incremental costs, through its
13		updated Rider RP, as well as the Company's experience modification factor
14		("EMF") rider, Rider RPE ("Application").
15	Q.	What is the purpose of your supplemental testimony in this proceeding?
16	A.	The purpose of my supplemental testimony is to support a change in the Rider
17		RPE revenue requirement due to corrected information regarding Renewable
18		Energy Credit ("REC") sales and broker fees, as further discussed in the

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1		supplemental testimony of Company Witness George E. Hitch, and regarding
2		the July 2017 Rider RP revenue. The adjustments due to this corrected
3		information only affect the EMF Rider RPE revenue requirement. There is no
4		change to the Company's revenue requirement for Rider RP that was
5		supported by my direct testimony filed on August 30, 2018.
6	Q.	Mr. Moore, are you sponsoring any exhibits or schedules in connection
7		with your supplemental testimony?
8	A.	Yes. Company Supplemental Exhibit AJM-1, consisting of updated
9		Schedule 2 (provided in public version and confidential version filed under
10		seal), was prepared under my supervision and direction and is accurate and
11		complete to the best of my knowledge and belief. My Company
12		Supplemental Exhibit AJM-1 presents the updated revenue requirement for
13		EMF Rider RPE for the EMF true-up period.
14	Q.	First, can you comment on the corrected information for the sale of
15		RECs?
16	A.	Yes. In responding to the Public Staff's data requests, the Company's review
17		of its records identified that in April 2018 there was a sale of 225,953
18		previously purchased RECs, and while the gain on this sale was included in
19		the true-up calculation, a reversal of the purchase price was excluded. As a
20		result the total costs included in Company Exhibit AJM-1, Schedule 2, Page 2
21		of 3, Line 1, were overstated by \$67,786. The corrected amount is shown on
22		my Company Supplemental Exhibit AJM-1, Schedule 2, Page 2 of 3.

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1	Q.	Next, can you comment on the corrected information for the broker fees?
2	A.	Yes. In responding to the Public Staff's data requests, the Company's review
3		of its records identified that brokerage fees of \$2,000 were charged twice to
4		the true-up costs. As a result, the costs shown on Company Exhibit AJM-1,
5		Schedule 2, Page 2 of 3, Line 1 were overstated by \$2,000. The corrected
6		amount is shown on my Company Supplemental Exhibit AJM-1, Schedule 2,
7		Page 2 of 3.
8	Q.	Next, can you comment on the corrected information for the Rider RP
9		revenues?
10	A.	Yes. In responding to a Public Staff data request, the Company's review of its
11		records identified that revenues used for July 2017 were misstated. As a result
12		the revenues shown on Company Exhibit AJM-1, Schedule 2, Page 1 of 3,
13		Line 2 were overstated by \$4,367. The corrected amount is shown on my
14		Company Supplemental Exhibit AJM-1, Schedule 2, Page 1 of 3.
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15	Q.	Are there any changes to Page 3 of your Company Exhibit AJM-1,
16		Schedule 2?
17	А.	No, but I am including Page 3 of Company Exhibit AJM-1, Schedule 2 in my

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Company Supplemental Exhibit AJM-1 for the purpose of presenting a
complete updated Schedule to the Commission.

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1	Q.	Mr. Moore, do the corrected REC sales, broker fees, and Rider RP
2		revenues that you discuss above change the revenue requirement of Rider
3		RPE that was presented in your direct testimony?
4	A.	Yes. I have updated the EMF Rider RPE true-up revenue requirement to
5		correct for the updated REC sales, brokerage fees, and Rider RP revenues.
б		The changes due to both the RECs sales and brokerage fees adjustment can be
7		found on Page 2 of 3, Line 1, and the update to the July 2017 Rider RP
8		revenues can be found on Page 1 of 3, Line 2 of my Company Supplemental
9		Exhibit AJM-1, Schedule 2, respectively. These changes resulted in an
10		overall Rider RPE revenue requirement under-recovery position of \$212,889,
		as shown at Page 1 of 3, Line 3 of my Supplemental Schedule 2. This under-
12		recovery amount is \$65,419 less than the revenue requirement under-recovery
13		position of \$278,308 presented in my Direct Schedule 2.
14	Q.	Mr. Moore, are you presenting any other changes to the development of
15		the updated Rider RPE revenue requirement at this time?
16	А.	No, I am not.
17	0	
17	Q.	What is the result of the changes identified above?
18	А.	The updated Rider RPE revenue requirement under-recovery of \$212,889 as
19		calculated in my Supplemental Schedule 2 reflects a \$65,419 decrease to the
20		original Rider RPE under-recovery amount of \$278,308. As there is no
21		change to the Rider RP revenue requirement, this decrease results in a total
22		combined revenue requirement for Rider RP and Rider RPE of \$1,039,706,
23		representing a (\$146,019) decrease over the rates currently in effect.

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- Q. Has the Company developed final rates to reflect the updates to the Rider
 RPE revenue requirement described above?
- 3 A. Yes. Company Witness Robert C. Rice has developed final rates to reflect the
- 4 updates to the Rider RPE revenue requirement. These rates will be filed in
- 5 Company Witness Rice's Supplemental Testimony and Exhibit.
- 6 Q. Does this conclude your supplemental testimony?
- 7 A. Yes, it does.

(WHEREUPON, Company Supplemental Exhibit RCR-1, Schedules 1 - 7, is marked for identification and received into evidence.) (WHEREUPON, the prefiled supplemental testimony of ROBERT C. RICE is copied into the record as if given orally from the stand.)

NORTH CAROLINA UTILITIES COMMISSION

SUPPLEMENTAL TESTIMONY OF ROBERT C. RICE ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

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	А.	My name is Robert C. Rice. I am Manager – Customer Rates for Dominion
5		Energy North Carolina. My business address is One James River Plaza, 701
6		East Cary Street, Richmond, Virginia 23219.
7	Q.	Did you previously file direct testimony and an exhibit in this
8		proceeding?
9	А.	Yes. I prefiled direct testimony and Company Exhibit RCR-1, consisting of
10		Schedules 1-7 on August 30, 2018, in support of the Company's Application
11		to recover all reasonable and prudent incremental Renewable Energy and
12		Energy Efficiency Portfolio Standard ("REPS") compliance costs through its
13		updated Rider RP, as well as the Company's experience modification factor
14		("EMF") rider, Rider RPE ("Application").
15	Q.	What is the purpose of your supplemental testimony in this proceeding?
16	A.	The purpose of my supplemental testimony is to support the updated Rider
17		RPE revenue requirement presented by Company Witness Alan J. Moore and
18		to develop updated Rider RPE rates, to be effective for usage on and after

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2 customer bills. 3 Q. Mr. Rice, are you sponsoring any exhibits or schedules in connection with 4 your supplemental testimony? 5 A. Yes. Company Supplemental Exhibit RCR-1, consisting of updated 6 Schedules 1 through 7, was prepared under my supervision and is accurate 7 and complete to the best of my knowledge and belief. 8 Q. Please summarize the revised rates that the Company is requesting the 9 Commission approve through this supplemental filing. 10 A. In addition to the Rider RP rates that were proposed in its August 30, 2018 11 Application, the Company requests Commission approval of updated RPE 12 rates as follows (all shown on a dollars per account basis):

February 1, 2019. I will also discuss the impact the revised rates will have on

Customer Class	Rider RP	Rider RPE	Total Riders RP & RPE
	Customer Class Rate	Customer Class Rate	Customer Class Rate
	• (unchanged)	(updated)	(updated)
Residential	\$ 0.34	\$0.09	\$ 0.43
Commercial	\$ 1.88	\$0.47	\$ 2.35
Industrial	\$ 12.63	\$3.26	\$15.89

13 These proposed Rider RP and Rider RPE rates are requested to be in effect for

14 the 12-month period from February 1, 2019, through January 31, 2020, the

15 proposed Rate Period.

- 16 Q. Have you included the Company's updated Rider RPE in your
- 17 Supplemental Schedule 7?

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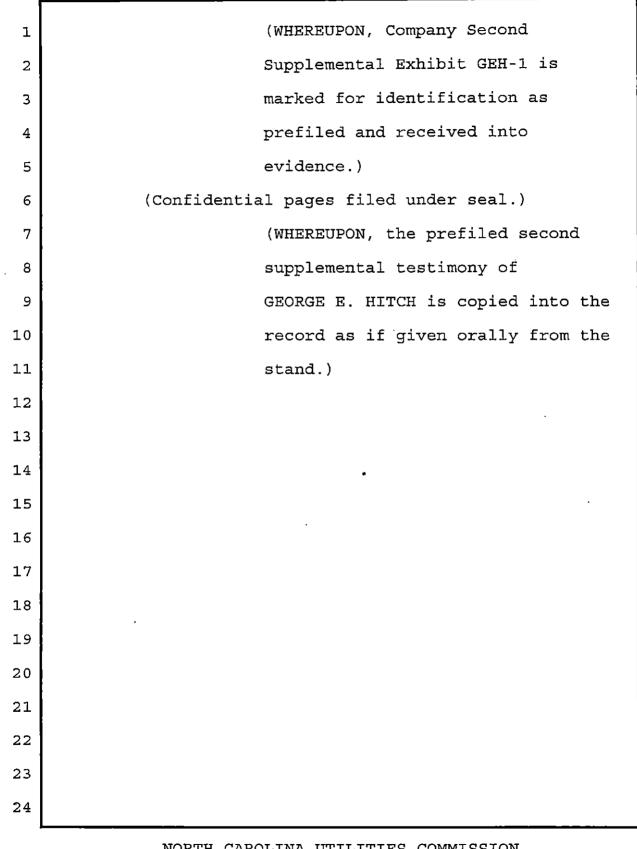
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1	А.	Yes. Page 1 of my Supplemental Schedule 7 to Company Supplemental
2		Exhibit RCR-1 presents an updated tariff sheet for the updated Rider RPE,
3		which, if approved as proposed, would be applicable for usage on and after
4		February 1, 2019.
5	Q.	Do the changes you have described affect either Rider RP or the Rider
6		RPE for January 2019?
7	A.	No. The changes I have described impact only the Rider RPE rates for the
8		Rate Period of February 1, 2019, through January 31, 2020. I am including
9		the unchanged tariff sheets for the January 2019 Rider RPE and for Rider RP
10		at Pages 2 and 3 of my Supplemental Schedule 7 for ease of reference,
11	÷	however, in addition to the updated Rate Period Rider RPE tariff sheet at Page
12		1 of Supplemental Schedule 7.
13	Q.	Does this conclude your supplemental testimony?

14 A. Yes, it does.

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NORTH CAROLINA UTILITIES COMMISSION

Dec 05 2018

SECOND SUPPLEMENTAL TESTIMONY OF GEORGE E. HITCH ON BEHALF OF DOMINION ENERGY NORTH CAROLINA BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. E-22, SUB 557

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 ·	Α.	My name is George E. Hitch, and my business address is 5000 Dominion
5		Boulevard, Glen Allen, Virginia. I am a Senior Market Originator for
6		Dominion Energy North Carolina and Dominion Energy Virginia.
7	Q.	Are you the same George E. Hitch who previously prefiled direct
8		testimony, including schedules, and supplemental testimony in this
9		proceeding?
10	Α.	Yes. I prefiled direct testimony and Company Exhibit GEH-1 which is the
11		Company's 2018 REPS Compliance Report for calendar year 2017 REPS
12		compliance and Company Exhibit GEH-2 consisting of two schedules,
13		Schedule 1 and 2. (Exhibits GEH 1-2 provided in public and confidential
14		versions filed under seal). I also filed supplemental testimony and Company
15		Supplemental Exhibit GEH-2 consisting of an updated Schedule 1.

1 **Q.**

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2. What is the purpose of your second supplemental testimony in this proceeding?

3	A.	The purpose of my second supplemental testimony is to support a change to
4		Figure 1.3 of my Company Exhibit GEH-1 that the Company is making to
5		recognize the effects of adjustments made to the Company's Evaluation,
6		Measurement & Verification ("EM&V") Report filed with the Commission on
7		October 25, 2018, in Docket No. E-22, Sub 545. The corrected EM&V Report
8		adjusted the kWh/year savings associated with the Company's Residential
9		Retail LED Lighting Program for the 2017 compliance year, which resulted in
10		a decrease of 488 energy efficiency credits ("EECs") for 2017. In order to
1:1		reflect that adjustment for purposes of the Company's 2018 REPS
12		Compliance Report, DENC will place 488 additional general RECs in its NC-
13		RETS 2017 compliance sub-account to account for the decrease of 488 EECs.
14	Q.	Mr. Hitch, are you sponsoring any exhibits or schedules in connection
15		with your rebuttal testimony?
16	А.	Yes. Company Second Supplemental Exhibit GEH-1, consisting of page 3 of
17		Company Exhibit GEH-1 with an updated Figure 1.3 (provided in public
18		version and confidential version filed under seal), was prepared under my
19		supervision and direction and is accurate and complete to the best of my
20		knowledge and belief.

Q. Mr. Hitch, are you presenting any changes to the rates or revenue requirements at this time?

1 A. No, the Company is not proposing any changes to the rates or revenue

2 requirements.

- 3 Q. What effect does the change identified above have on the Company's cost
- 4 recovery in this proceeding?
- 5 A. The change I have described above has no effect on the Company's cost
- 6 recovery request in this case.
- 7 Q. Does this conclude your second supplemental testimony?
- 8 A. Yes, it does.

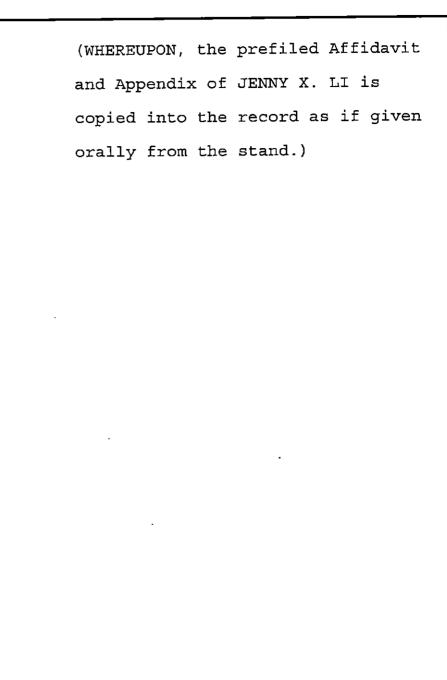
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1	COMMISSIONER CLODFELTER: And, in addition,
2	the Application will be identified and received into
3	evidence as DENC Exhibit 1. The letter of
4	November 2nd will be identified and received into
5	evidence as DENC Exhibit 2.
6	MS. KELLS: Thank you.
7	COMMISSIONER CLODFELTER: The motion is
8	granted.
9	(WHEREUPON, Exhibit DENC 1 and
10	Exhibit DENC 2 are marked for
11	identification and received into
12	evidence.)
13	COMMISSIONER CLODFELTER: Mr. Dodge.
14	MR. DODGE: Thank you, Chairman or
15	Commissioner Clodfelter. Excuse me. The Public Staff
16	requests that the prefiled affidavits of Public Staff
17	Witness Jenny Li consisting of four pages and an
18	Appendix filed on October 19, 2018; and Evan Lawrence
19	consisting of six pages and an Appendix, as revised on
20	October 30, 2018, be received into evidence and given
21	the same effect as if given orally from the stand.
22	COMMISSIONER CLODFELTER: Without objection,
23	that motion is granted.
24	MR. DODGE: Thank you.

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Oct 19 2018

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STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. E-22, SUB 557

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of Application by Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina, for Approval of Renewable Energy and Energy Efficiency Portfolio Standard Cost Recovery Rider Pursuant to G.S. 62-133.8 and Commission Rule R8-67

<u>AFFIDAVIT OF</u> JENNY X. LI

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, Jenny X. Li, first being duly sworn, do depose and say:

I am a Staff Accountant with the Electric Section of the Accounting Division of the Public Staff - North Carolina Utilities Commission. A summary of my education and experience is attached to this affidavit as Appendix A.

G.S. 62-133.8(h) provides that the State's electric power suppliers may recover their reasonable and prudently incurred incremental costs of compliance with the Renewable Energy and Energy Efficiency Portfolio Standard (REPS) through an annual rider charge. Pursuant to Commission Rule R8-67, the REPS rider will be recovered over the same period as the utility's fuel cost rider. Rule R8-67 also provides for a REPS experience modification factor (REPS EMF) rider, which is utilized to "true-up" the recovery of reasonable and prudently incurred incremental REPS compliance costs incurred during the test period established for each annual rider proceeding.

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The purpose of my affidavit is to present the results of the Public Staff's investigation of the REPS EMF rider proposed by Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina (DENC or the Company), in this proceeding, based on incremental REPS compliance costs incurred and revenues recorded from July 1, 2017 through June 30, 2018 (REPS EMF period or test period).

On August 30, 2018, DENC filed its application, testimony and exhibits related to the incremental costs incurred for compliance with the REPS. DENC witness Rice presented the Company's proposed annual and monthly REPS EMF Rider (Rider RPE) increments for each of the North Carolina retail customer classes. Company Exhibit No. RCR-1, Schedule 3 set forth the proposed annual EMF increment riders of \$1.38, \$7.58, and \$51.10 per retail customer account, excluding the regulatory fee, for the residential, commercial, and industrial classes, respectively. Also set forth on Company Exhibit No. RCR-1, Schedule 3 are the proposed monthly EMF increment riders of \$0.12, \$0.60, and \$4.26 per retail customer account, excluding the regulatory fee, for the residential commercial, and industrial classes, respectively.

On October 15, 2018, DENC filed the Supplemental Testimony and Exhibits of George E. Hitch, Alan J. Moore, and Robert C. Rice. The purpose of DENC's supplemental testimony is to implement three changes in the EMF True-up period costs to correct information for the brokerage costs, the revenue from excess renewable energy credit ("REC") sales, and the allocation factor used to calculate the EMA maintenance fee. As noted by Company witness Hitch, these

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adjustments only affect the EMF True-up period used to develop Rider RPE. DENC witness Rice Supplemental Testimony and Exhibit RCR-1, Schedule 3 presents the Company's proposed annual and monthly REPS EMF Rider (Rider RPE) increments for each of the North Carolina retail customer classes, based on (1) the revised incremental REPS compliance costs of \$108,810 for the residential class, \$101,733 for the commercial class, and \$2,347 for the industrial class, and (2) the customer accounts totaling 103,079 for the residential class, 17,565 for the commercial class, and 60 for the industrial class. The proposed revised annual EMF increment riders are \$1.06, \$5.79, and \$39.11 per retail customer account, excluding the regulatory fee, for the residential, commercial, and industrial classes, respectively. These rates are calculated by dividing the REPS EMF Rider RPE under-recovery amount by the customer count for that class. The proposed revised revised monthly EMF increment riders are \$0.09, \$0.47, and \$3.26 per retail customer account, whether excluding or including the regulatory fee for the residential classes, respectively.

The Public Staff's investigation included procedures intended to evaluate whether the Company properly determined it's per books incremental compliance costs and revenues, and complied with the annual REPS revenue cap during the test period. These procedures included a review of the Company's filings and other Company data provided to the Public Staff. Additionally, the procedures included a review of certain specific types of expenditures impacting the Company's costs, including research and development costs. Performing the

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Public Staff's investigation also required the review of responses to written data requests.

Based upon the Public Staff's investigation, I am recommending that DENC's proposed revised annual and monthly REPS EMF increment riders for each customer class, as set forth on Company Supplemental Exhibit RCR-1, Schedule 3, be approved. These amounts produce annual increment REPS EMF riders of \$1.06, \$5.79, and \$39.11 per customer account, excluding the regulatory fee, and proposed monthly riders of \$0.09, \$0.47, and \$3.26 per customer account, whether excluding or including the regulatory fee for the residential, commercial, and industrial classes, respectively.

This completes my affidavit.

Jenny

Jenny X. Li

Sworn to and subscribed before me

On this the 19th day of October, 2018.

Cleo L. Ackerman (Printed Name)

My Commission Expires: 1-8-2023

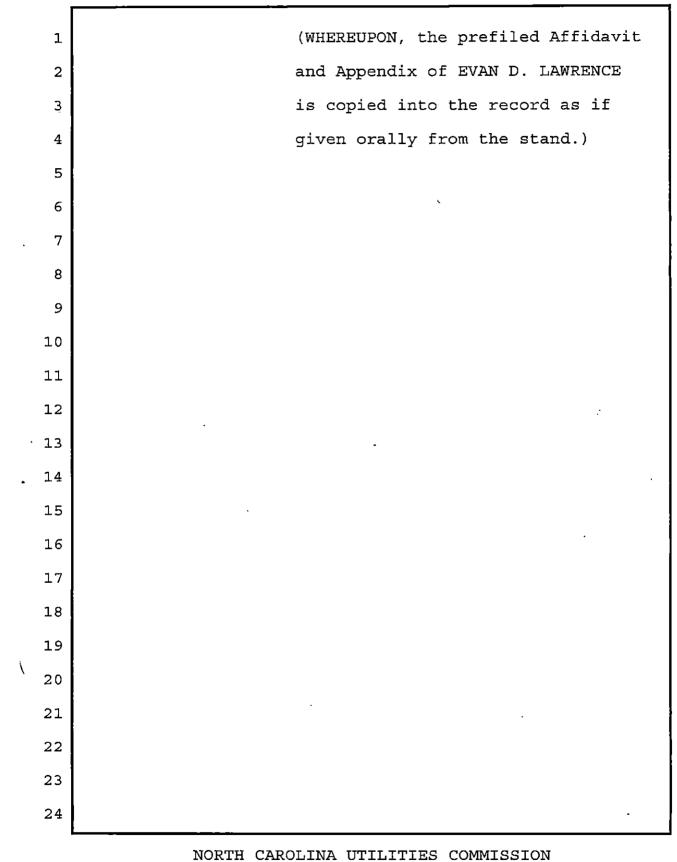
Cleo L Ackerman NOTARY PUBLIC WAKE COUNTY, N.C. My Commission Expires 01-08-2003 I graduated from North Carolina State University with a Bachelor of Science degree in Accounting.

I joined the Public Staff Accounting Division in August 2016 as a Staff Accountant. I am responsible for the performance of the following activities: (1) the examination and analysis of testimony, exhibits, books and records, and other data presented by utilities and other parties under the jurisdiction of the Commission or involved in Commission proceedings; and (2) the preparation and presentation to the Commission of testimony, exhibits, and other documents in those proceedings.

Since joining the Public Staff, I have filed an affidavit in Duke Energy Progress, LLC (DEP) fuel case. I have also assisted on several electric cases and performed reviews in Duke Energy Carolinas, LLC (DEC), Duke Energy Progress, LLC (DEP) rate cases and fuel cases; DEC's Existing DSM Program Rider and BPM/NFPTP Rider; Western Carolina University's PPA Rider and New River Light and Power Company's PPA Factor.

Prior to joining the Public Staff, I was employed by MDU Enterprises Inc. and Neusoft America Inc. My duties there varied from examining various financial statements to supervising accounting and assisting external audits. OFFICIAL COPY

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STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. E-22, SUB 557

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 Approval of Renewable Energy and Energy Efficiency Portfolio Standard Cost Recovery Rider Pursuant to G.S. 62-133.8 and Commission Rule R8-67

AFFIDAVIT OF EVAN D. LAWRENCE

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, Evan D. Lawrence, being first duly sworn, do depose and say:

I am a Utilities Engineer in the Electric Division of the Public Staff – North Carolina Utilities Commission. I have attached, as Appendix A, a summary of my education and experience.

The purpose of my affidavit is to present the Public Staff's analysis and recommendations with respect to the Application for Approval of Renewable Energy and Energy Efficiency Portfolio Standard (REPS) Cost Recovery Rider and 2018 REPS Compliance Report filed by Virginia Electric and Power Company d/b/a Dominion Energy North Carolina (DENC or Company) on August 30, 2018.

G.S. 62-133.8(h) provides that electric power suppliers may recover their reasonable and prudently incurred incremental costs of compliance with the REPS through an annual rider charge. Pursuant to Commission Rule R8-67(e)(4), the REPS rider will be collected, to the extent practical, over the same period as the

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utility's fuel cost rider. Rule R8-67 also provides for a REPS experience modification factor (REPS EMF) rider, which is utilized to true up the recovery of the revenues realized under the REPS rider to the reasonable and prudently incurred incremental REPS compliance costs actually experienced during the test period established for each annual rider proceeding.

For 2017 compliance, DENC acquired renewable energy certificates (RECs), but not RECs and energy bundled together. DENC provides REPS compliance and reporting services for the Town of Windsor (Windsor) and maintains separate accounts for itself and Windsor in the North Carolina Renewable Energy Tracking System (NC-RETS). None of the costs of RECs assigned to Windsor were included in DENC's requested REPS cost recovery riders.

2018 REPS Compliance Report

The 2018 REPS Compliance Report was filed as Company Exhibit No. GEH-1 in DENC's application and includes REPS compliance activities for the calendar year 2017. For 2017, each electric power supplier needed to retire enough RECs to equal six percent (6%) of jurisdictional retail megawatt-hour (MWh) sales for 2016.¹ To reach compliance DENC and Windsor were required to retire 257,644 and 2,939 RECs, respectively.

Pursuant to G.S. 62-133.8(b)(2)(c), DENC may use energy efficiency certificates (EECs) to meet no more than twenty five percent (25%) of its total

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¹ 2016 North Carolina jurisdictional retail sales for DENC were 4,294,053 MWh. 2016 retail sales for Windsor were 48,968 MWh.

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requirement. This limitation on the use of EECs to meet the total requirement does not apply to municipal suppliers such as Windsor. In addition, DENC is allowed to obtain all of its RECs from out-of-state sources,² whereas Windsor must obtain at least 75% of its RECs from in-state sources.³ In response to Public Staff data requests in previous years, DENC stated that it determines the service life of an energy efficiency measure for REPS compliance purposes based on the measure lives the Company uses when filing for approval of an energy efficiency (EE) or demand side management program. As an example, the Company has previously noted its Application for Approval of the Small Business Improvement Program, as filed on July 29, 2016 in Docket No. E-22, Sub 538, which presents measure lives of 14 years.

DENC and Windsor pursued retirement of a total of 248,809 general requirement⁴ RECs and EECs during 2017. For itself, DENC included 228,061 RECs and '17,943 EECs from its portfolio of in-state EE programs approved pursuant to G.S. 62-133.9, for a total of 246,004. For Windsor, DENC requested retirement of 2,805 general requirement RECs, with greater than 75% of Windsor's total RECs coming from in-state sources. Windsor did not use any EECs for compliance.

² G.S-62-133.8(b)(2)(e).

³ G.S-62-133.8(b)(2)(d).

⁴ The RECs or EECs that an electric power supplier is required to provide under G.S. 62-133.8(b) or (c), exclusive of those required by the set-asides in G.S. 62-133.8(d), (e), and (f), are customarily referred to as the "general requirement."

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With respect to the solar requirements established by G.S. 62-133.8(d), both DENC and Windsor were required to pursue retirement of solar RECs amounting to 0.14% of the 2016 North Carolina retail sales. DENC retired a total of 6,081 solar RECs, 6,012 for itself and 69 for Windsor, in compliance with the statutory requirements.

DENC and Windsor were required to pursue retirement of their pro-rata share of the 170,000 poultry waste RECs required by G.S. 62-133.8(f).⁵ DENC retired a total of 5,693 poultry RECs, 5,628 for itself and 65 for Windsor, in compliance with the statutory requirements.

The requirement to obtain RECs derived from swine waste was delayed for a year by Commission order dated October 16, 2017, in Docket No. E-100, Sub 113.

Based on my review, I recommend that the Commission approve the 2018 REPS Compliance Report for DENC and Windsor.

REPS Cost Recovery

The total REPS charge is based on the Rider RP, which are the costs projected for the billing period (February 1, 2019 through January 31, 2020), and the Rider RPE, which is the under recovery from the Experience Modification Factor (EMF) period (July 1, 2017 through June 30, 2018).

⁵ By Order dated October 16, 2017, in Docket No. E-100, Sub 113, the Commission, exercising the authority granted to it under G.S. 62-133.8(i)(2), reduced the statewide poultry waste requirement for 2018 from 900,000 to 700,000.

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I reviewed the estimated incremental costs associated with DENC's proposed REPS Rider RP in this case. Those costs are estimated to be \$826,817 and include costs to be incurred during the billing period related to: (1) the cost of RECs to be purchased, (2) research costs, and (3) other incremental costs (i.e., administrative costs, broker fees, Environmental Management Account (EMA) costs). DENC included only costs associated with RECs or with its management of REPS compliance for Windsor. Consistent with its allocation methodology used in the last REPS cost recovery proceeding, DENC allocated 5.0619% of the costs related to the EMA system to its North Carolina retail jurisdiction. This allocation is based on the level of energy sales assigned to the jurisdictions.

All of the estimated research costs to be incurred during the billing period are associated with DENC's Microgrid demonstration project at the Company's Kitty Hawk District Office.

Public Staff Accountant Li has reviewed DENC's compliance costs for the test period and its proposed EMF charge, Rider RPE, and finds them to be reasonable.

The estimated costs of RECs to be purchased, research costs, and other incremental costs appear to be reasonable.

DENC requested approval of the following monthly charges for the forecast rate and EMF rate, including the regulatory fee:

Customer Class	Forecast Rate (Rider RP)	EMF Rate (Rider RPE)	Total REPS Rate
Residential	\$0.34	\$0.09	\$0.43
General	\$1.88	\$0.47	\$2.35
Industrial	\$12.63	\$3.26	\$15.89

Based on my review of the application, supporting testimony, supplemental testimony, amending costs during the EMF period, and second supplemental testimony and revised exhibit GEH-1, amending the number of general obligation RECs and EECs used for compliance, and the review of the testimony of Public Staff witness Li, I recommend approval of DENC's proposed rates.

This completes my affidavit.

Craus

Eván Lawrence

Sworn to and subscribed before me On this the 30 day of October, 2018.

<u>OANNE</u> <u>m</u> B∉ (Printed Name)

(Notary

My Commission Expires: /2 adaz

Joanne M. Berube NOTARY PUBLIC WAKE COUNTY, N.C. My Commission Expires 12-17-2022.

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APPENDIX A

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Evan D. Lawrence

I graduated from East Carolina University in Greenville, North Carolina in May of 2016 earning a Bachelor of Science degree in Engineering and a concentration in Electrical Engineering. I started my current position with the Public Staff in September of 2016. Since that time my duties and responsibilities have focused around the review of renewable energy projects, interconnection standards, rate design, and renewable energy portfolio standards compliance. I have filed an affidavit in the DENC 2017 REPS case, testimony in New River Light and Power's (NRLP) most recent general rate case, assisted with Duke Energy Carolinas (DEC) and Duke Energy Progress' (DEP) REPS cases, as well as multiple other cases.

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1	COMMISSIONER CLODFELTER: Is there anything			
2	further from the parties?			
3	MS. KELLS: No, sir.			
4	MR. DODGE: (Shakes head in the negative).			
5	(No response)			
6	COMMISSIONER CLODFELTER: If not, that will			
7	conclude the hearing, and we will close the record.			
8	Thank you.			
9	(WHEREUPON, the proceedings were adjourned.)			
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NORTH CAROLINA UTILITIES COMMISSION

Dec 05 2018

CERTIFICATE

I, KIM T. MITCHELL, DO HEREBY CERTIFY that the Proceedings in the above-captioned matter were taken before me, that I did report in stenographic shorthand the Proceedings set forth herein, and the foregoing pages are a true and correct transcription to the best of my ability. Mitchell Kim T. Mitchell Court Reporter

NORTH CAROLINA UTILITIES COMMISSION

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