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COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION

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COMMONWEALTH OF VIRGINIA, ex rel.

STATE CORPORATION COMMISSION

CASE NO. PUR-2017-805

In re: Virginia Electric and
Power Company's Integrated
Resource Plan filing pursuant
to Virginia Code Section
56-597, et seq.

CERTIFIED ORIGINAL

TRANSCRIPT OF PROCEEDINGS BEFORE
THE HONORABLE JUDITH WILLIAMS JAGDMANN
THE HONORABLE MARK C. CHRISTIE
THE HONORABLE JAMES C. DIMITRI

September 25, 2017

VOLUME I

1:00 p.m. - 5:36 p.m.

Richmond, Virginia

REPORTED BY: SCOTT D. GREGG, RPR

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APPEARANCES:

Honorable Judith Williams Jagdmann, Presiding

Honorable Mark C. Christie, Member

Honorable James C. Dimitri, Member

Alisson P. Klaiber, Esquire,

Ashley B. Macko, Esquire,

and

K. Beth Clowers, Esquire,

Counsel to the Commission

Vishwa B. Link, Esquire,

and

Lisa Crabtree, Esquire,

Counsel to the Applicant

C. Mitchell Burton, Jr., Esquire,

and

C. Meade Browder, Jr., Esquire,

Counsel to the Office of

Attorney General, Division

of Consumer Counsel

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APPEARANCES: (Continued)

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Greg Buppert, Esquire,
and
Nate Benforado, Esquire,
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Council, Appalachian Voices, and the
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(Environmental Respondents)

Evan D. Johns, Esquire,
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Bruce H. Burcat, Esquire,
and
Eric J. Wallace, Esquire,
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Energy Coalition (MAREC)

Louis R. Monacell, Esquire,
Counsel to the Virginia Committee
for Fair Utility Rates

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P R O C E E D I N G S

THE CLERK: Today's case is PUR-2017-00051, State Corporation Commission in reference to Virginia Electric and Power Company Integrated Resource Plan. The Honorable Judge Judith Williams Jagdmann, presiding.

CHAIRMAN JAGDMANN: Good afternoon everyone.

On May 1st of this year, Dominion Energy Virginia filed with this Commission its Integrated Resource Plan, or IRP, pursuant to Section 56-599 of the Code.

The IRP is designed to provide a forecast of the Company's load obligations and a plan to meet those obligations over the next 15 years, using both supply-side and demand-side resources.

Dominion's IRP analyzes approaches to meet customers' needs with or without the federal Clean Power Plan which has been stayed by the Supreme Court of the United States.

On May 12th, we issued our order for notice and hearing. That order established a procedural schedule for this case, directed the Company to provide public notice of the IRP, and set an evidentiary hearing for today, September 25th.

1 Several entities filed notices of
2 participation. And respondents prefiled their
3 testimony on August 11th. The Staff filed its
4 testimony on August 25th.

5 Dominion's rebuttal testimony was filed
6 September 8th, along with a motion in limine to strike
7 the testimonies of Witnesses Lander and Penniman. In
8 the alternative, Dominion's motion asked the
9 Commission to find that the remedies sought by those
10 witnesses in relation to the Atlantic Coast Pipeline
11 do not fall within the scope of an IRP proceeding.

12 Subsequently, Environmental Respondents
13 filed a limited response in opposition to Dominion's
14 motion as well as a cross motion in limine. The
15 Sierra Club filed a joinder to the Environmental
16 Respondent's filing.

17 I note that time has not elapsed under
18 the Commission's rules of practice and procedure for
19 responses and replies related to these filings. At
20 this time, the Commission plans to rule on these
21 matters in our final order in this case.

22 I remind all counsel that this hearing is
23 not a proceeding for the Commission to issue a
24 Certificate of Public Convenience and Necessity, nor
25 is it a rate recovery proceeding, so issues limited to

1 those types of proceedings are not part of this IRP
2 case and never have been a part of any IRP.

3 Our procedural order required Dominion to
4 publish notice of its IRP filing in newspapers of
5 general circulation in its Virginia service area and
6 to serve notice of the IRP on certain local public
7 officials. On June 27th, the Company filed proof of
8 notice and service.

9 If there are no concerns with this
10 filing, we'll go ahead and mark it as Exhibit 1 and
11 receive it into evidence.

12 (Exhibit No. 1 was marked and admitted
13 into evidence.)

14 CHAIRMAN JAGDMANN: At this time, hearing
15 no -- hearing no objection, it is so marked and it is
16 moved into evidence.

17 Our procedural order required Dominion --
18 excuse me -- at this time, we'll also go ahead and
19 mark the Company's IRP. The IRP was filed May 1st,
20 including the cover letter from Robert Blue, the
21 proposed public notice, the reference index, the
22 corrected page 20 filed on July 10th are all
23 collectively marked as Exhibit 2 and 2C.

24 (Exhibit No. 2 was marked for
25 identification.)

1 (Confidential Exhibit No. 2C was marked
2 for identification.)

3 CHAIRMAN JAGDMANN: Is there any
4 objection to those documents being moved into
5 evidence?

6 Hearing none, they are part of the
7 record.

8 (Exhibit No. 2 was admitted into
9 evidence.)

10 (Confidential Exhibit No. 2C was admitted
11 into evidence.)

12 CHAIRMAN JAGDMANN: On June 30th,
13 Dominion filed its list identifying the witnesses who
14 would adopt various parts of the IRP document. And
15 summaries of those witnesses' testimony this June 30th
16 filing, including the identification chart, and all
17 direct testimony summaries is marked as Exhibit 3.

18 (Exhibit No. 3 was marked for
19 identification.)

20 CHAIRMAN JAGDMANN: And hearing no
21 objection, it is received into evidence.

22 (Exhibit No. 3 was admitted into
23 evidence.)

24 MS. LINK: Your Honor, may I just make a
25 clarification on Exhibit 3? We've notified the

1 parties through the order of presentation that Witness
2 Robert Thomas will be adopting the testimony of Simon
3 Hodges.

4 CHAIRMAN JAGDMANN: Okay. That is so
5 noted.

6 Okay. We have an agreed upon order of
7 presentation. Unless there are any changes or other
8 suggestions at this time, we plan to follow this
9 order.

10 By way of housekeeping, we want to note
11 that we will start tomorrow at 9 a.m. and that we plan
12 to have closing arguments in lieu of post hearing
13 briefs.

14 We will now have introduction of counsel.

15 Ms. Link.

16 MS. LINK: Thank you. Good afternoon.

17 May it please the Commission, my name is Vishwa Link,
18 with the law firm of McGuireWoods. Appearing with me
19 today is Lisa Crabtree and Lisa Booth, in-house at the
20 company Dominion Energy Virginia, and together we
21 represent the Applicant.

22 MR. JOHNS: Good afternoon, and may it
23 please the Commission, my name is Evan Johns, with the
24 law firm Appalachian Mountain Advocates, and I'm
25 appearing on behalf of the Sierra Club in this case.

1 MR. BURCAT: Good afternoon,
2 Commissioners. My name is Bruce Burcat, I'm
3 appearing on behalf of the Mid-Atlantic Renewable
4 Energy Coalition. I have Eric Wallace here from the
5 law firm of GreeneHurlocker.

6 MR. CLEVELAND: Good afternoon. May it
7 please the Commission, my name is Will Cleveland. I'm
8 an attorney with The Southern Environmental Law
9 Center. Along with my colleagues, Nate Benforado and
10 Greg Buppert, we represent the Environmental
11 Respondents.

12 MR. MONACELL: Good afternoon,
13 Commissioners, I'm Louis Monacell, with the law firm
14 of Christian & Barton. I'm here on behalf of the
15 Virginia Committee for Fair Utility Rates.

16 MR. BROWDER: Good morning, Your Honors.
17 Meade Browder, along with Mitch Burton, with the
18 Office of the Attorney General's Division of Consumer
19 Counsel.

20 MS. KLAIBER: Good afternoon,
21 Commissioners. My name is Alisson Klaiber. I, along
22 with Ashley Macko and Beth Clowers, represent the
23 Staff in this proceeding.

24 Thank you.

25 CHAIRMAN JAGDMANN: Are there any

1 preliminary matters we need to address at this time?

2 MS. CLOWERS: Your Honor, Staff
3 requests Staff Witness Carol Myers be taken out of
4 turn and provide her testimony today to the extent at
5 all possible. Staff circulated this request with the
6 other participants in this case, and there are no
7 objections.

8 CHAIRMAN JAGDMANN: Okay. We will hear
9 Ms. Myers. We'll have her take the stand after our
10 public witnesses.

11 MS. CLOWERS: Thank you, Your Honor.

12 CHAIRMAN JAGDMANN: Okay.

13 MR. BURCAT: Your Honor, we also ask to
14 have Witness Michael Goggin be able to testify anytime
15 tomorrow, but he has travel issues, and we didn't have
16 any objection to that request.

17 CHAIRMAN JAGDMANN: Okay. That request
18 will be granted.

19 MR. BURCAT: Thank you very much.

20 CHAIRMAN JAGDMANN: We'll now hear from
21 public witnesses.

22 As your name is called, please come
23 forward. The bailiff will swear you in. You can then
24 take the witness stand, give your name and address,
25 and they will -- we will then get -- hear your

1 testimony.

2 Albert Pollard.

3 ALBERT POLLARD, called as a witness,
4 having been first duly sworn, testified as follows:

5 THE WITNESS: Thank you, Chairman
6 Jagdmann. I'm Albert Pollard. I live at 48 Steamboat
7 Road Irvington, Virginia 22480.

8 I'm reading a letter on behalf of four
9 data center firms which is dated September 25th. They
10 apologize they were not able to be here in person to
11 read the letter.

12 Relating to Case Number PUR-2017-00051,
13 as data center providers and prime customers of
14 energy-intensive data centers facilities with current
15 operations in Virginia, we write to encourage the
16 Commission and Dominion Energy Virginia, Dominion, to
17 take our energy resources preferences into account
18 when deciding on future energy infrastructure projects
19 to meet energy load growth from data centers.

20 Specifically, we urge the Commission and
21 Dominion to consider the data center community's
22 growing interest in renewable energy when evaluating
23 Dominion's proposed 2017 integrated resources plan,
24 IRP.

25 Data center companies and customers

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1 recognize the benefits of renewable energy to help
2 control energy costs and achieve price predictability.
3 We are also driven by our investors who are asking us
4 to use renewable energy and reduce our carbon
5 footprint. Renewable energy is the preferred source
6 of power for many Virginia data centers' operations
7 that serve as much as 70 percent of the world's
8 Internet traffic. We've made public commitments,
9 including to our investors, to reduce our greenhouse
10 gas footprint and invest in renewable energy, in some
11 instances to procure 100 percent renewable energy for
12 our operations. We intend to successfully fulfill our
13 commitments to renewable energy and would like more
14 options to procure in all of the states where we
15 operate.

16 Access to direct renewable energy options
17 is an increasingly significant factor in deciding
18 where to locate or expand data centers.

19 Although an improvement over previous
20 years, Dominion's 2017 IRP again underdeploys
21 renewable energy. And we believe Dominion should be
22 giving far more consideration to data center-specific
23 energy priorities. Virginia is currently home to more
24 than 650 data facilities that collectively employ
25 13,900 people. Data centers constitute the largest

1 share of Dominion's forecasted load growth, an
2 estimated 2,500 megawatts between now and 2025.

3 . Meanwhile, growth from non data center
4 customers is expected to remain flat or even decline.
5 Thus, although the IRP does not expressly state it,
6 most of Dominion's future capital investments will be
7 built to serve data center loads. As a result,
8 Dominion should take data center customers' desire for
9 renewable energy into account as part of its planning
10 process.

11 Investment in renewable energy would be
12 both consistent with our long-term energy priorities
13 and also reflect the fact that renewable energy is
14 increasingly the most cost-effective energy resource.

15 For example, with prices for
16 utility-scale solar regularly below 51.73 per megawatt
17 in Virginia, other than energy efficiency, Dominion's
18 own IRP shows solar as its least cost resource. In
19 contrast, a buildout of non renewable energy
20 infrastructure would overlook key customer priorities
21 and may prove unnecessarily burdensome to other
22 customers.

23 A clean, flexible, and dynamic grid is
24 the grid of the future. And we welcome the chance to
25 work collaboratively with Dominion to assist in

1 accelerating that transition while addressing
2 reliability and benefitting other customers.

3 We recognize and applaud Dominion's
4 progress made to date in increasing clean energy
5 investment in Virginia and the efforts of Virginia
6 utilities to meet the needs of stakeholders that are
7 actively pursuing clean energy opportunities.

8 Virginia has become a major hub for data
9 centers because of land availability, infrastructure,
10 and access to affordable, reliable energy.

11 For Virginia's economic growth to
12 continue, access to affordable, reliable, renewable
13 energy must be readily available. We look forward to
14 working with lawmakers, regulators, and Dominion
15 Energy to continue progress to ensure access to
16 affordable, reliable, and clean energy for all.

17 Sincerely, Adobe Systems, Incorporated,
18 Digital Realty Trust, Inc., Equinix, Inc., and Iron
19 Mountain, Incorporated.

20 CHAIRMAN JAGDMANN: Is there any
21 cross-examination of the witness?

22 Hearing none, you are excused. Thank you
23 for your testimony.

24 Thomas Hadwin.

25 THOMAS HADWIN, called as a witness,

1 having been first duly sworn, testified as follows:

2 THE WITNESS: I am Thomas Hadwin. I live
3 at 328 Walnut Avenue, in Waynesboro, Virginia.

4 I spoke to you-all last year about the
5 pipeline cost, saying that they are three to eight
6 times -- that the cost of using the Atlantic Coast
7 Pipeline to deliver gas to power plants of Virginia is
8 three to eight times more expensive than using
9 existing pipelines.

10 I was asked by Commissioner Christie if I
11 was aware that this was a federal issue, and I
12 responded I did, but the point I was trying to make is
13 that the actual need or the market case for the
14 pipeline and its effects on ratepayers are not being
15 considered at the federal level, so we'll come back to
16 the State Commission to really protect ratepayer
17 issues.

18 How it applies to the IRP is the cost of
19 energy for new power plants has used the cost of
20 natural gas as if it was being delivered by existing
21 pipelines. That's what the ICF numbers show. That's
22 appropriate because there's abundant supply and
23 existing pipelines and they are a cheaper way to do
24 it, but that assumption does not square with what the
25 Company intends to do to come to you with a request

1 for a firm transportation agreement that will cost
2 billions of dollars more for ratepayers.

3 So on one hand to assume a lower cost of
4 delivered gas for energy calculations but yet say that
5 it's absolutely essential to have the Atlantic Coast
6 Pipeline to fuel new power plants is not a consistent
7 assumption. Just ask that you consider that as you're
8 going through the review of the IRP and that you also,
9 as soon as possible, provide some guidance to the
10 utility holding companies building a pipeline because
11 they are about to invest 5- to \$6 billion.

12 If at the end of construction or six to
13 eight years later when the first power plant might
14 need more gas supply, if you determine the lower of
15 cost or market is the amount that they can recover
16 from ratepayers, they will be very short of what their
17 projections require of them in order to pay off that
18 investment.

19 So the sooner we can make a decision
20 about what the likely recovery from ratepayers will
21 be, the more fair that will be to the pipeline
22 investors and to the ratepayers themselves since I
23 think they will be taken by surprise to know they will
24 be asked to pay billions of dollars more to have
25 service from that pipeline.

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Thank you.

CHAIRMAN JAGDMANN: Is there any cross-examination of the witness?

Hearing none, you're excused. Thank you for your testimony.

Dana Wiggins.

DANA WIGGINS, called as a witness, having been first duly sworn, testified as follows:

THE WITNESS: Madam Chairman and Commissioners, my name is Dana Wiggins. I'm with the Virginia Poverty Law Center, and I reside at 3214 Garrett Street, Richmond, Virginia 23221.

On behalf of the Virginia Poverty Law Center, I respectfully ask the Commissioners to consider several points as part of this hearing on how the Integrated Resource Plan affects low-income ratepayers in Virginia. Specifically, there are additional burdens and some other considerations Dominion Energy Virginia will place on its low-income customers through their plans to pass on the costs of projects such as the Atlantic Coast Pipeline to its customers without any risk to their shareholders who are already overearning on their previous capital investments per the recent SCC Staff report.

To be clear, we have no opinion on the

1 pipeline itself. We simply believe that the cost
2 burden passed on to Virginia consumers, particularly
3 low-income consumers, has not been sufficiently backed
4 by the data present or given.

5 A recent Goldman Sachs assessment on
6 Dominion, which Goldman Sachs made following the
7 recent Virginia support -- Supreme Court decision that
8 upheld a previous SCC ruling, illustrates how
9 shareholders' interests are beginning to significantly
10 displace those of low-income bill payer interests.

11 The Goldman Sachs assessment reads as
12 follows: We view this Supreme Court ruling upholding
13 the rate freeze as a positive for Dominion as it
14 removes risk that a rate could -- a rate review could
15 given their earning levels at its regulated business
16 in Virginia lead to rate changes that could provide a
17 headwind to EPS earnings per share a potential 20 cent
18 increase EPS -- a potential 20 percent decrease not in
19 our current forecast.

20 More importantly, we view the court
21 ruling to uphold the rate freeze law as a
22 reaffirmation that Virginia remains one of the top
23 regulatory environments for utilities in the US; one,
24 given the rate review process; two, the Riders that
25 provide revenue increases for major capital

1 investments such as new power plants, distribution,
2 underground line spending, and other key investments;
3 and three, legislation that approves continued rate
4 base growth initiatives such as storage power plant
5 development and nuclear realize sensing expenditures.

6 VPLC reads this statement as a positive
7 for shareholders but not necessarily for consumers.
8 The third point in the paragraph, legislation that
9 approves continued rate base growth initiatives,
10 certainly does not indicate a focus by the utility to
11 keep rates low for consumers. Instead, it indicates
12 that Dominion has been successful in being able to
13 make investments that are then passed directly onto
14 their consumers and customers while still claiming low
15 rates.

16 Any customer but a low-income customer
17 who is already spending twice the average percentage
18 of their income as their moderate income counterparts
19 is not particularly focused on the Company's low rate,
20 but rather is concerned about a monthly bill that only
21 continues to seemingly increase due to a variety of
22 Riders and this current legislation that removes the
23 biennial rate review and any potential decrease and/or
24 refund due to overcharges.

25 While we appreciate that the utilities in

1 Virginia are not technically defined as monopolies,
2 low-income households are still captive consumers.

3 More dismay is the lack of actual
4 programs that Dominion could be implementing for their
5 low-income consumers that would directly affect those
6 consumers' household budgets. More robust programs
7 targeted specifically for low-income and elderly
8 households that combine both weatherization and energy
9 efficiency installations, coupled with education
10 programs on energy usage would directly reduce the
11 unfair burden on these households at a lower cost than
12 investments in increased production.

13 As already mentioned, the Staff -- the
14 SCC Staff reports have already determined Dominion is
15 overearning by nearly \$250 million per year because of
16 a change in the law that they requested to help the
17 Company mitigate proposed Clean Power Plan objects --
18 sorry -- objectives.

19 Now that the plan has gone by the wayside
20 due to a change in federal administration, the Company
21 has changed what they are saying about the rate freeze
22 to indicate that they now need the money to mitigate
23 anticipated cost the Company -- of the Company to
24 comply with any carbon training regulation that may
25 occur due to Governor McAuliffe's Executive Directive

1 11, yet there are no decisions that have been made,
2 and we have the potential of a change in
3 administrations at the state level that could render
4 that directive moot.

5 Will Dominion then simply give that money
6 back to its consumers and customers? No. That is
7 money already being passed on to its shareholders.
8 There is no savings for the consumers and only
9 continues to be a windfall for shareholders.

10 Goldman Sachs is not wrong in their
11 analysis. Virginia's regulatory environment favors
12 the stockholder and makes Dominion a very good
13 investment.

14 The concern for us is that the money is
15 being made on a commodity that is a necessity and not
16 a true choice purchase for consumers. And
17 particularly those consumers who can least afford to
18 reward those who are fortunate enough to be able to
19 invest in Dominion's stock.

20 There appears to be an imbalance and
21 economic fairness of this plan that is borne by the
22 customers of Dominion with no risk to the shareholder.
23 The real tragedy is the additional burden this will
24 place on low-income consumers of Virginia whose energy
25 burdens are already more than twice that of moderate-

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1 to high-income earners and customers.

2 To mitigate this overcharging of their
3 consumers, VPLC asks that Dominion be required to take
4 all of the overearnings estimated by the SCC Staff
5 report and invest it directly into programs,
6 particularly energy-efficiency programs, for their
7 low-income customers. In doing so, the SCC should
8 ensure that Dominion's stockholders fully bear that
9 cost while accounting for them of administering these
10 programs through the pilot years so a true accounting
11 can be made of this investment for its consumers. The
12 successful energy-efficiency programs for low-income
13 households combines a successful energy efficiency
14 program for consumers; and low-income households
15 combines weatherization programs with energy
16 efficiency measures.

17 Dominion has implemented these programs
18 in the past, but we believe that more robust funding
19 for these programs will make a measurable impact on
20 the energy savings for low-income customers and reduce
21 the energy burden of these households. This coupled
22 with the anticipated EM&V protocols currently being
23 written should provide the utility, the SCC Staff, and
24 stakeholders the necessary information needed to
25 properly evaluate the effectiveness of these programs

1 and provide data necessary to understand where
2 improvements and additional efforts can be focused to
3 ensure Virginia's low-income households do not bear
4 any unnecessary, unfair, or unfair energy burden than
5 their counterparts.

6 Thank you.

7 CHAIRMAN JAGDMANN: Thank you. Is there
8 any cross-examination of the witness?

9 Hearing none, you're excused. Thank you
10 for your testimony.

11 By agreement of the parties, we'll hear
12 Staff Witness Carol Myers -- actually, I guess we
13 could have opening statements first.

14 MS. CLOWERS: Your Honor, Staff does not
15 object to proceeding with opening statements
16 beforehand if you would prefer.

17 CHAIRMAN JAGDMANN: Let's proceed with
18 opening statements then.

19 MS. LINK: Good afternoon. Once again
20 for the record, my name is Vishwa Link.

21 Before the Commission today is Dominion
22 Energy Virginia's 2017 Integrated Resource Plan, which
23 was filed on May 1st, 2017.

24 The relevant Integrated Resource Plan
25 statutes are familiar to the Commission as this is the

1 sixth such proceeding the Commission has conducted.

2 Pursuant to Code Section 56-599 E, the
3 Commission is to make a determination as to whether
4 the 2017 plan filed by the Company is reasonable and
5 in the public interest.

6 The 2017 plan represents a comprehensive
7 analysis of the projected needs of Dominion's system
8 and its customers and provides a robust analysis of
9 how the Company proposes to meet those needs in a
10 reliable and responsible manner. Of course this
11 process is all the more complicated due to the
12 continued uncertainty with the Clean Power Plan, or
13 CPP, which has been compounded by the recent change in
14 federal administration.

15 Given the uncertainties of the CPP and
16 the need to plan for a variety of contingencies, the
17 2017 plan, like its predecessors, presents a range of
18 alternatives representing plausible paths forward for
19 the Company to meet the future energy needs of its
20 customers.

21 Specifically, the Company presents eight
22 different alternative plans designed to meet
23 customers' needs in a future with or without the CPP.

24 To assess a future without the CPP, the
25 2017 plan includes an alternative designated plan, its

1 Plan A, no CPP, and it is designed using least-cost
2 planning techniques, and assumes no additional carbon
3 regulation is implemented through the CPP, other
4 legislation, or rules.

5 The 2017 plan also includes seven
6 additional alternative plans designed to be compliant
7 with the CPP as set forth in the 2016 plan final
8 order, utilizing one of the three program options
9 likely to be implemented in Virginia.

10 At this time, and as was the case in the
11 2016 plan, the Company has not picked one preferred
12 plan or recommended a long-term path forward beyond
13 the short-term action plan. Rather, consistent with
14 the 2016 plan final order, the 2017 plan presents a
15 least cost base plan, called Plan A, and 7
16 CPP-compliant alternative plans, and that's plans B
17 through H, that represent plausible future paths for
18 meeting the future electric needs of the Company's
19 customers while responding to changing regulatory
20 requirements.

21 Staff acknowledged the difficulty
22 expressed by the Company to determine a preferred plan
23 given the uncertainties surrounding the CPP and did
24 not disagree with this approach.

25 While much uncertainty still exists

1 regarding if or what form future carbon regulations
2 will take, the Company believes the current proceeding
3 is the right place to identify and develop areas and
4 methods for further study.

5 The goal of the IRP proceedings that are
6 ongoing while the CPP is in flux should be to
7 develop -- to further develop its planning process so
8 when the current regulatory uncertainty regarding
9 future carbon regulation has cleared, the Company will
10 have refined its approach to many of the baseline
11 issues related to planning for CPP compliance, such as
12 methodology, modeling, inputs and assumptions, and
13 will be ready to move forward with compliance with
14 carbon regulation in whatever form it may take.

15 To that end, as discussed in Mr. Kelly's
16 rebuttal testimony, the Company would propose that the
17 Commission accept that the Company developed plans
18 associated with only two CPP-compliant alternatives
19 going forward; that would be an intensity-based dual
20 rail alternative plan that is trading-ready and a
21 mass-based alternative plan that is also
22 trading-ready.

23 Beyond those two plans, the Company would
24 continue to develop additional alternative plans for
25 study in its 2018 and future plans, consistent with

1 any current and pending state and federal
2 environmental regulations which could potentially
3 include Virginia Governor McAuliffe's Executive
4 Directive 11.

5 The Company believes this proposal
6 appropriately balances the Commission's need for
7 information to satisfy its reporting requirements
8 pursuant to the Code and the uncertainty regarding the
9 form of future carbon regulation.

10 Finally, the Company agrees with and
11 supports Staff Witness Write's recommendation that the
12 Company be relieved of prior Commission requirements
13 related to the extension of nuclear licenses, natural
14 gas directives, optimum timing of North Anna 3, and
15 analysis of new coal generation facilities without
16 carbon capture sequestration technology.

17 And just a brief remark in closing of my
18 opening. We appreciate the Commission's guidance on
19 the motion in limine that you shared at the beginning
20 of the hearing. We will respond obviously to the
21 pleadings that are filed in due course. I do not
22 intend to object to respondent counsel's opening
23 statements, but I would like to note my objection for
24 the record to the extent opening remarks relate to the
25 witnesses of Environmental Respondent Witness Lander

1 and Sierra Club Witness Penniman, and we ask that
2 those remarks not be considered part of the record for
3 the reasons stated in the motion. And at the
4 appropriate time prior to the admission of Witness
5 Lander and Penniman's testimonies, I will make my
6 objection for the record.

7 We look forward to developing the record
8 during the course of this hearing and urge the
9 Commission to find the 2017 plan both reasonable and
10 in the public interest.

11 Thank you.

12 CHAIRMAN JAGDMANN: Okay. Mr. Johns.

13 MR. JOHNS: May it please the Commission,
14 again, Evan Johns, on behalf of the Sierra Club.

15 The Sierra Club's testimony in this case
16 highlights three fundamental errors that we continue
17 to see in the Company's Integrated Resource Planning
18 processes.

19 First of all, the heart of every IRP is
20 the load forecast, and that's why it's so troubling
21 that the Company's past plans have overshot their mark
22 with almost perfect consistency.

23 Last year, Sierra Club Witness William
24 Shobe identified the flaws in the Company's forecast
25 model that produced these overestimates and thereby

1 exposed ratepayers to the risk of unnecessary capital
2 investments.

3 At that time, the Company assured us that
4 the errors were merely a matter of documentation and
5 that once it updated its model, it would become clear
6 that the forecast models did actually reflect
7 significant energy efficiency gains that we have seen
8 over the past decade.

9 The Company has updated its documentation
10 in this case, but as Dr. Shobe will explain, the
11 Company's model still fails to properly account for
12 those energy efficiency gains. It continues to
13 operate under the assumption that the relationship
14 between economic growth and load growth has not
15 fundamentally changed since 1987. And the truth is no
16 change in average incomes or in housing stock here in
17 Virginia will catapult us back into those Halcion
18 days.

19 The Sierra Club also sponsors the
20 testimony of Mr. William Penniman. Mr. Penniman
21 focuses on two issues; and I believe that the standing
22 objection is only to one of those, the unobjected
23 portion of his testimony refers to the Company's
24 failure to reign in absolute carbon emissions and how
25 this is inconsistent with Virginia's climate goals and

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1 exposes ratepayers to the risk of high stranded costs.
2 These risks are especially acute as Virginia develops
3 its own state-level climate regulation, and that's
4 regulation that will likely take the form of a
5 mass-based cap on carbon emissions.

6 Mr. Penniman also addresses the plan's
7 treatment of the proposed Atlantic Coast Pipeline.
8 And we want to make very clear that we acknowledge the
9 Commission's reservations in dealing with some of
10 those issues, but we believe that in this case as the
11 Company's IRP acknowledges, that pipeline is part of
12 the backdrop against which resource modeling is taking
13 place. And Mr. Penniman's testimony discusses the
14 treatment of ACP-related costs in the Company's
15 resource modeling process.

16 By treating those costs as already sunk,
17 cost of new gas-fired generation in Virginia is
18 distorted relative to alternative resources or to
19 market purchases. And given the exorbitant cost of
20 the pipeline relative to the alternatives,
21 Mr. Penniman testifies that it's unreasonable to
22 assume those costs are sunk from a resource modeling
23 perspective.

24 Finally, the Sierra Club recognizes that
25 the Company's approach to grid modernization and

1 renewable integration is in flux and evolving; and in
2 that spirit, it offers the testimony of Gerald Braun,
3 an expert in renewable systems planning.

4 Mr. Braun points out that the Company's
5 plan fails to reflect important technological advances
6 in onshore wind and in energy storage. He also notes
7 that the Company's modeling constraint of only
8 240 megawatts of new solar capacity annually is
9 inconsistent with the experiences of electric systems
10 in other states.

11 So we thank you for the opportunity to
12 participate in this proceeding.

13 CHAIRMAN JAGDMANN: Mr. Burcat.

14 MR. BURCAT: For the record again, Bruce
15 Burcat, on behalf of the Mid-Atlantic Renewable Energy
16 Coalition. Good afternoon, Commissioners. I
17 appreciate this opportunity to appear before you to
18 address the 2017 Virginia Electric Power Company's
19 Integrated Resource Plan.

20 My organization, the Mid-Atlantic
21 Renewable Energy Coalition, an organization supporting
22 utility-scale renewable energy development in Virginia
23 and the region believes that the plan filed by
24 Dominion is inadequate in addressing renewable energy
25 in the 15-year planning horizon.

1 The IRP lacks acknowledgement of the
2 benefits that renewable energy would bring the
3 Commonwealth during the 15-year planning period, such
4 as long-term price stability or a hedge against
5 volatile fossil fuel prices and the cost effectiveness
6 of wind and solar and energy.

7 Some of the most efficient -- some of the
8 most significant deficiencies in this filing are the
9 prices for wind and solar energy that VEPCO has used
10 in its modeling assumptions. Both its price
11 assumptions for onshore wind and offshore wind are so
12 far off base it is no wonder that wind energy hardly
13 plays any role in the 15-year planning period. The
14 record will show that these assumptions are, once
15 again, outrageously high as compared to the market
16 alternatives.

17 The Company on page 101 of the IRP lists
18 a price of \$99 per megawatt-hour for onshore wind when
19 there's ample evidence that purchase power agreements
20 have been executed at far lower prices for this energy
21 resource in the region. And these prices are -- we've
22 been seeing prices in the range of anywhere in the
23 20s, to 30s, maybe to low 40s for these types of
24 energy resources for purchase power agreements.

25 The \$339 megawatt-hour for offshore wind

1 price in the Company's IRP on page 101 is also way out
2 of the norm, especially with the recent developments
3 in Rhode Island and having the first offshore wind
4 project operating in the country.

5 MAREC, once again, will demonstrate that
6 the actual market prices for onshore and offshore wind
7 energy are far below the pricing used by the Company
8 in its modeling. In fact, MAREC Witness Goggin's
9 testimony will establish that the price of onshore
10 wind energy is very competitive with traditional
11 energy resources, and, in fact, now rivals the pricing
12 for natural gas.

13 It is important to emphasize that the
14 pricing for onshore wind energy utilized by VEPCO in
15 its IRP is in direct contradiction to the modeling
16 assumptions utilized by APCo, which are far lower in
17 its IRP docket pending before the Commission.

18 While APCo is taking advantage of wind
19 energy through annual purchases from competitive
20 procurements, VEPCO stands behind its invalid,
21 unsupported, and outrageously high pricing.

22 On the solar side, MAREC raises several
23 concerns. While the Company plans to procure limited
24 amounts of solar energy, we believe it is being held
25 back in the IRP by two distinct problems. First, like

1 wind energy, the pricing utilized by VEPCO in its
2 modeling for the IRP is too high. Part of this is
3 being driven by the fact, as explained by MAREC
4 Witness Volpe, that for modeling purposes the Company
5 utilized the cost of service approach for its solar
6 levelized cost of energy forecast, when we posit that
7 a Market Index approach to rate basing the Investment
8 Tax Credit for solar projects provides a more accurate
9 picture of the value of the benefits of the tax
10 credits. Tax benefits for solar projects are fully
11 realized at the commercial operation date of any
12 project at the beginning, as this Market Index
13 approach recognizes.

14 The actual tax benefits in reality are
15 not spread out through the useful life of the project
16 as suggested by the use of the cost of service
17 approach.

18 MAREC believes that if the more accurate
19 methodology is used, the IRP would indicate a much
20 greater level of solar energy to be procured.

21 Another critical issue in the IRP is the
22 arbitrary annual cap of 240 megawatts for solar energy
23 projects. The Company was unable to support the
24 purpose of having such a limitation in the IRP, and
25 MAREC believes that the Company should be required to

1 lift the limitation or at least provide a minimum --
2 provide an increase to the cap level if the Company
3 can establish the need for one. However, the
4 240 megawatt annual limitation is not justified, and
5 that number should clearly be revisited.

6 The Company will be filing its next IRP
7 by March 1st, 2018. MAREC respectfully requests that
8 the Commission direct VEPCO to use readily available
9 market data to model wind energy prices in its next
10 IRP. The Company has failed to do this in all of its
11 past IRPs.

12 Even as wind prices have plummeted, the
13 Company continues to use arbitrarily high pricing
14 assumptions for wind. In fact, the market prices
15 utilized by VEPCO have never been seen in the wind
16 industry.

17 While a fully competitive RFP would be a
18 thoroughly accurate way of obtaining such pricing, we
19 think it's time that the IRP itself for modeling
20 purposes contains a highly supportable price for wind
21 energy. In that particular situation then, if the
22 price, the input is considered in the IRP, the correct
23 price, we believe that wind will play a part in future
24 supply requirements for the Company.

25 On the solar side, MAREC has a similar

1 ask that the Company should reflect the more accurate
2 Market Index Approach for rate base and the tax
3 benefits for solar projects. At a minimum, the IRP
4 should contain separate scenarios for each of the two
5 rate basing approaches to accurately reflect a
6 comparison of the added benefits to consumers brought
7 by the investment tax credits for solar projects.

8 Finally, we ask that the Commission to
9 limit VEPCO's arbitrary use of a cap on annual solar
10 procurement. If solar is shown to be the most
11 appropriate resource and levels higher than an
12 unsupported cap, then the amounts of the IRP should be
13 properly reflected and not restricted.

14 Thank you.

15 CHAIRMAN JAGDMANN: Thank you.

16 Mr. Cleveland.

17 MR. CLEVELAND: Good afternoon. May it
18 please the Commission, my name is Will Cleveland, with
19 the Southern Environmental Law Center. Along with my
20 colleagues, Greg Buppert and Nate Benforado, we
21 represent the Natural Resources Defense Council,
22 Appalachian Voices, and the Chesapeake Climate Action
23 Network, collectively the Environmental Respondents.

24 As has been the case in previous years,
25 Environmental Respondents have serious concerns about

1 the Company's long-term planning methods. It begins
2 with an overly optimistic, likely inaccurate load
3 forecast as its bedrock. The IRP builds from this
4 with an overinvestment in gas achieved by imposing an
5 arbitrary annual cap on solar resources unsupported by
6 any quantitative analysis. The IRP masks the true
7 cost of this resource mix by baking the Atlantic Coast
8 Pipeline into every scenario but excluding the cost
9 ratepayers will bear from that pipeline.

10 First, we will present the testimony of
11 economist James Wilson. He will address recent
12 changes that PJM has made to improve its load
13 forecasting. Dominion has failed to update its own
14 load forecasting methodology and as a result is
15 overpredicting its future needs. Since the load
16 forecast is the first building block in any IRP
17 planning, we ask that the Commission require the
18 Company to update its methodologies consistent with
19 Mr. Wilson's recommendations to improve accuracy in
20 future IRPs.

21 With respect to the Atlantic Coast
22 Pipeline, Commissioner Jagdmann mentioned earlier this
23 is not a proceeding for ratemaking discussions or for
24 CPCNs. We agree. Nevertheless, I'd like to discuss
25 the facts that we will present that make the ACP

1 relevant to this proceeding.

2 The evidence will show that the Company
3 has never performed an analysis in this IRP or any
4 other IRP of whether it needs the Atlantic Coast
5 Pipeline to meet its service obligations.

6 The evidence will further show that the
7 Company assumed construction of the Atlantic Coast
8 Pipeline in every single scenario it ran in this
9 year's IRP. Additionally, the evidence will show that
10 the Company treated those costs as quote/unquote sunk.
11 We believe it is imprudent at this stage to make those
12 assumptions.

13 As the Commission ruled in a very recent
14 case, the Commission correctly reserved its right to
15 review those costs in every single annual fuel factor
16 coming forward.

17 The Commission also correctly, expressly
18 reserved the right to deny the Company the ability to
19 pass on those cost to customers even though we learned
20 in this year's earlier fuel factor that the Company
21 expects to pass those costs on to its customers.

22 We will present the testimony of Greg
23 Lander who calculates using Dominion's own data from
24 this IRP that the cost to ratepayers will incredibly
25 be high. He concludes it will not save customers any

1 money; it will instead increase their costs by between
2 1.6 and \$2.3 billion.

3 While the Company has moved to strike
4 Mr. Lander's testimony on relevance grounds in this
5 proceeding, the Company has offered no evidence on
6 testimony disputing the veracity of Mr. Lander's
7 calculations.

8 The Commission's recent order in the
9 Sierra Club affiliates act case confirms that the
10 future ACP costs are anything but sunk. The Company's
11 IRP clearly states that it has made a long-term
12 commitment in the ACP assuming customers will pay for
13 it. But prudent utility managers will recognize that
14 the Commission's order places the risk of that
15 financial commitment on shareholders, not the
16 customers in a future fuel factor case and not the
17 customers the Company was expecting would underwrite
18 it when they incurred that future obligation.

19 In light of that risk and given the
20 numerous other legal challenges the pipeline faces,
21 the pipeline's future and the Company's relationship
22 to it are uncertain. One plausible scenario is that
23 the Company's shareholders decide they don't want the
24 risk of proving every year that the billions of
25 dollars of costs are prudent, and they may decide not

1 to move forward with the pipeline. If that happens,
2 this IRP contains not a single scenario that would
3 inform the Commission what our future resource mix
4 will look like. The evidence will show that the
5 Company performed no alternative analysis in this IRP.

6 Given the pipeline's uncertain future and
7 the almost guaranteed adverse impact to ratepayers,
8 Mr. Lander has offered several recommendations in his
9 testimony, but Environmental Respondents would request
10 at a minimum that the Commission directs Dominion to
11 at least evaluate any future IRPs, a scenario where
12 the ACP does not exist. Such an evaluation can only
13 benefit both the shareholders and the Company's
14 customers.

15 Third, we will present testimony from
16 Karl Rabago who has evaluated the Company's modeling
17 practices with regard to solar power. Integrating
18 solar into the grid, modernizing the grid writ large,
19 and utility-scale storage. In particular, the
20 evidence will show that the Company placed an
21 arbitrary cap on solar power at 240 megawatts per
22 year. In selecting this number, a very specific
23 number, the Company performed absolutely no
24 quantitative analysis, not a single calculation
25 supports this number even though it acted as a

1 limiting constraint on solar deployment in almost
2 every single year of every single plan.

3 Given the unique nature of solar power,
4 Mr. Rabago does not recommend the Company impose no
5 cap; rather, he recommends that the Company should
6 support any cap it uses in future IRPs with sound
7 quantitative analysis that draws on experiences from
8 other utilities, allows for a learning curve in both
9 technical capability and personnel development.

10 I recognize the frustration we all feel
11 in conducting these hearings every single year, but if
12 the Company's plan is to mean anything, it has to have
13 integrity. The evidence will show several key
14 deficiencies in the Company's fundamental modeling
15 practices and assumptions, and we respectfully ask
16 that the Commission address these deficiencies so the
17 Company can fix them in future IRPs.

18 Thank you.

19 CHAIRMAN JAGDMANN: Mr. Monacell.

20 MR. MONACELL: May it please the
21 Commission, I'm Louis Monacell, on behalf of the
22 Virginia Committee.

23 The Virginia Committee takes no position
24 and has taken no position on the reasonableness of the
25 ACP cost. We do believe, however, that some of the

1 testimony that Dominion seeks to strike is highly
2 relevant to the -- how the Company has done its
3 modeling. You've already heard reference that they
4 have assumed in all of their runs that the cost of the
5 ACP is sunk and, therefore, they have not assigned the
6 cost of that pipeline to any of the future gas supply
7 options. We believe that that evidence is highly
8 relevant. And, in fact, we maintain that the
9 Commission and ask that the Commission direct that
10 Dominion rerun its modeling, each of its runs,
11 assigning the cost of the ACP that Dominion estimates
12 will be used to transport gas to be borne by those
13 future gas supply options. Not doing that does not
14 assign the full cost of those future gas supply
15 options to those options and, therefore, understates
16 the cost of those options.

17 If you look at the testimony of
18 Mr. Penniman starting on page 15, starting at line
19 four, you'll see that he addresses there the ACP cost.
20 It's really incredible that --

21 CHAIRMAN JAGDMANN: Are we getting into
22 the case now? You'll have a chance to
23 cross-examine --

24 MR. MONACELL: I do not intend to
25 cross-examination. In fact, this witness is not

1 taking the stand.

2 MS. LINK: Because you waived the right
3 to cross-examine him.

4 CHAIRMAN JAGDMANN: Do we need to have --
5 okay.

6 MR. MONACELL: Right, I'll be very brief.
7 I'm just showing you this to show the portions that I
8 believe are highly relevant because it deals with
9 their treating the cost as sunk cost.

10 CHAIRMAN JAGDMANN: Do you have an
11 opportunity to respond to the motion?

12 MR. MONACELL: That time hasn't come yet,
13 I don't believe.

14 CHAIRMAN JAGDMANN: Okay. Well, you'll
15 have that opportunity then.

16 MR. MONACELL: All right. We request the
17 Commission to require the Company to meet its burden
18 of proof that the IRP filing is reasonable even though
19 it has excluded and not assigned the cost of the IRP
20 to future gas supply options.

21 Further, we request that the Commission
22 require Dominion to rerun its IRP analysis assigning
23 such cost to future gas supply options based upon the
24 Company's reasonable estimate of how much such firm
25 pipeline transportation costs are likely to be passed

1 through to jurisdictional electricity customers. That
2 is the end of my opening statement.

3 Your Honors, I do not intend to have any
4 cross-examination, and I would ask that I be excused
5 from the remainder of the hearing.

6 CHAIRMAN JAGDMANN: You are so excused.

7 MR. MONACELL: Thank you.

8 Mr. Browder.

9 MR. BROWDER: Good afternoon, Your
10 Honors. For the record, Meade Browder, for Consumer
11 Counsel.

12 Consumer Counsel has not sponsored a
13 witness and filed testimony in this year's IRP case.
14 In every prior final order in these IRP cases, the
15 Commission has reiterated that approval of an IRP
16 filing -- I'm quoting -- does not in any way create
17 the slightest presumption that resource options
18 contain in the approved IRP will be approved in a
19 future certificate, rate adjustment clause, fuel
20 factor, or other type of proceeding governed by
21 different statutes.

22 The Commission has further stated that
23 actual expenditures incurred towards any specific
24 resource option that has not been approved by this
25 Commission in an applicable formal proceeding are

1 incurred solely at the risk of the Company's
2 stockholders.

3 In view of this approach consistently
4 taken by the Commission in these past IRP proceedings
5 and as, again, restated by Commissioner Jagdmann in
6 the -- at the commencement of this proceeding,
7 Consumer Counsel does not take a position on
8 Dominion's 2017 IRP filing. We do have or intend to
9 cross-examine a couple of witnesses just to confirm or
10 clarify certain facts for the record.

11 Thank you.

12 CHAIRMAN JAGDMANN: Thank you.

13 Commission Staff.

14 Got some new equipment and trying to
15 figure out how to use it up here.

16 MS. KLAIBER: Good afternoon, Your
17 Honors. May it please the Commission, I'm Alisson
18 Klaiber, and along with Ashley Macko and Beth Clowers,
19 represent the Staff in this proceeding.

20 As directed, Staff investigated the
21 Company's 2017 Integrated Resource Plan, or IRP. And
22 on August 25th, 2017, filed the testimony of Staff
23 witnesses Earnest White, Dave Eichenlaub, David Essah,
24 Gregory Abbott, and Carol Myers.

25 I'd like to use my time today, Your

1 Honors, to highlight what's new in this 2017 IRP in
2 Staff's view compared to the prior IRP.

3 As discussed by Staff witnesses, this is
4 the first IRP where Plan A, the least-cost plan, with
5 no carbon constraints, switches from mostly natural
6 gas facilities to mostly solar facilities.

7 Staff investigated the significant change
8 and determined that the Company's forecasted prices
9 for solar renewable energy credits, or RECs, are the
10 driving factor in the model selecting solar. Staff
11 determined that these REC prices are significantly
12 higher than those used in the 2016 IRP. This REC
13 price input heavily influences the addition of solar
14 installations in all plans in the Company's 2017 IRP,
15 causing the switch from mostly natural gas to mostly
16 solar facilities during the planning period, including
17 the near term.

18 Your Honors, moving to the specific
19 resources considered in this IRP, the evidence will
20 show that the Company has recently announced its
21 intention to move forward with a \$300 million offshore
22 wind demonstration previously called the Virginia
23 Offshore Wind Technology Advancement Project, or
24 VOWTAP, and now referred to as the Coastal Virginia
25 Offshore Wind.