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600
              COMMONWEALTH OF VIRGINIA
                                                                     WITNESS
                                                                                DIRECT CROSS REDIRECT RECROSS
                                                                     MARIA SCHELLER
                                                                                        605
 2
             STATE CORPORATION COMMISSION
 3
                                                                     DAVID FAISON
   COMMONWEALTH OF VIRGINIA
                                                                     ERIC KINGSLEY
                                                                                            738
                                                                                   688
 5 At the relation of the
                                                                     GREGORY A. WORKMAN 741
   STATE CORPORATION COMMISSION
                                                CASE NO.
    PUE-2011-00073
                                                                     ROBERT M. BISHA 745 752
                                                                   9
                                                                     GREGORY J. MORGAN 759 769
                                                                  10
 8 For approval and certification of the proposed
                                                                     MARK STEVENS
                                                                                    776
 9 biomass conversions of the Altavista, Hopewell.
                                                                     KURT W. SWANSON
                                                                  12
                                                                                     782 786
10 and Southampton Power Stations under
                                                                  13
11 Section 56-580 D and 56-46.1 of the Code of Virginia
                                                                     DIANE LEOPOLD
                                                                                    802 809
12 and for approval of a rate adjustment clause, designated
                                                                                818
                                                                  15
13 as Rider B, under Section 56-585.1 A 6 of the Code of
                                                                            EXHIBITS
14 Virginia.
                                                                  16
                                                                     Exhibit
                                                                              Marked
                                                                                       Received
15
                                                                     No. 57-FS
                                                                                        613
16
                                                                                         638
                                                                     No. 52 and 52-ES 638
17
       The complete transcript of the testimony and
                                                                     No. 54-ES
                                                                                657
                                                                                        657
                                                                     No. 55-ES
18 other incidents of the above-captioned matter when
                                                                                        665
                                                                                659
19 heard on January 12, 2011,
                                                                                       684
                                                                     No. 58 and 58-ES
20 before State Corporation Commission members Judith
                                                                     No. 60
21 Williams Jagdmann and Mark C.
                                                                               760
                                                                                       760
                                                                     No. 61
                                                                               777
22 Christie.
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23
                                                                  24
                                                                     No. 64
                                                                               801
                                                                                      801
                                                                     No. 65 and 65-ES 803
24 Reported and transcribed
                                                                  25
25 by: Leslie A. Todd. RPR, and Notary Public
                                                             601
                                                                                                                               603
                                                                            COMMISSIONER JAGDMANN: Good morning.
      APPEARANCES:
 2
         Matthew Roussy, Esquire
                                                                   2
                                                                            Mr. Monacell.
 3
                                                                   3
                                                                            MR. MONACELL: Good morning. Your Honors.
         Bryan Stogdale. Esquire
 4
         Beth Clowers. Esquire
                                                                   4
                                                                            My partner Harvey Chappell is retiring after
 5
                                                                   5 60 years, and they're having a celebration for him today
         Alisson Pouille, Esquire
 6
            Counsel to the Commission
                                                                   6 between noon and 1:00. And I'm not asking the
 7
                                                                     Commission to do anything extraordinary, but if -- !
         C. Meade Browder, Jr., Esquire
 8
                                                                      don't have any cross between 12:00 and 1:00, or the
         William T. Reisinger, Esquire
 9
                                                                      Commission were to happen to take its lunch break during
            Office of the Attorney General
10
                                                                  10 that period of time, I might head over to that
            Division of Consumer Counsel
11
                                                                     celebration. I do not plan to have any cross presently
         Bernard McNamee, Esquire
12
                                                                  12 until the last three Virginia Power witnesses.
         Kristian M. Dahl, Esquire
                                                                  13
                                                                            COMMISSIONER JAGDMANN: Well, it's our current
13
         Joseph Reid, Esquire
14
         William Baxter, Esquire
                                                                  14 intention to stop for lunch and take care of the lunch
15
                                                                  15 break at noon.
            Counsel to Virginia Electric and
16
            Power Company
                                                                  16
                                                                            MR. MONACELL: Oh, excellent.
17
         Louis Monacell, Esquire
                                                                  17
                                                                            COMMISSIONER JAGDMANN: Now, please give --
18
                                                                  18
                                                                     Mr. Chappell, you say?
            Counsel to Virginia Committee for
19
                                                                  19
                                                                            MR. MONACELL: Yes.
            Fair Utility Rates
20
         Frank Rambo, Esquire
                                                                  20
                                                                            COMMISSIONER JAGDMANN: Please give him our
                                                                  21 best wishes and congratulations on a distinguished
21
         David Carr, Esquire
                                                                  22 career.
22
            Counsel to Virginia Forest Watch
                                                                  23
                                                                            MR. MONACELL: Thank you.
23
24
                                                                  24
                                                                            COMMISSIONER JAGDMANN: You will notice that
25
                                                                  25 Judge Dimitri is not with us this morning. He is not
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(866) 448 - DEPO

	POE-2011-000/3 Virginia Electric and	F 0		1
	604			638
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	well, but he will be reading the transcripts. And I will not be here after noon today, but Judge Christie will take over and I too will read the transcript.  Now, that being said, we have Ms. Scheller is still here for her cross-examination.  And are we still in extremely sensitive I'm trying to remember cross.  So we are going off the web for confidential cross-examination.  (Whereupon, pages 605 through 636 were marked extraordinarily sensitive and attached under separate cover.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Yes.  MR. McNAMEE: And at the appropriate time, Your Honor, I would like to have it made an exhibit and entered into evidence.  COMMISSIONER JAGDMANN: Okay. For the benefit of the court reporter, everything that Mr. McNamee said with respect to Witness Kelly, it's in public version so it can be in the public transcript.  Mr. Kelly's rebuttal testimony will be marked as Exhibit 52 and 52-ES, and it is received into evidence subject to cross-examination.  (Exhibit Nos. 52 and 52-ES were marked for identification and received in evidence.) BY MR. McNAMEE:	
22		21 22 23	evidence.)	
<u> </u>		25	A Yes.	
	637			639
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. McNAMEE: The company calls Glenn Kelly.  WHEREUPON.  GLENN KELLY.  called as a witness. and having previously been duly sworn, was examined and testified as follows:  REBUTTAL DIRECT EXAMINATION  BY MR. McNAMEE:  Q Mr. Kelly, could you please give your name again, and then we will go through the usual introductions.  A Yes. My name is Glenn Kelly. I'm director of Generation System Planning.  Q And do you have with you a document consisting of 18 pages of questions and answers and one exhibit consisting of two schedules collectively entitled "The Rebuttal Testimony of Glenn A. Kelly" in both a public and extraordinarily sensitive version?  A Yes, I do.  Q And was that document prepared by you or under your direction?  A Yes. it was.  Q And that was the document filed on December 26, 2011?  A Yes, it was.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. McNAMEE: If I may use the podium to assist in that?  COMMISSIONER JAGDMANN: Yes, you may. BY MR. McNAMEE:  Q Mr. Kelly I'm somewhat technology challenged apparently, proving I'm a lawyer.  Do you recall yesterday discussing with Judge Christie about how as you ran these sensitivities in the base case, and this is the sensitivities from your direct testimony, page 13, that for a no carbon neutrality function that you represented how capacity factors would change and you accounted for how that	<u> </u>

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	640			642
١,	A Correct.	١,	did in fact that's what I think he was expecting is	1
1 2	Q And for this 2011 calculation, you have the	2	a significant reduction for the overall benefit of the	į
3	phrase "no carbon legislation"; is that correct?	3	company.	•
4	A That's correct.	4	Q All right. And so	
5	Q And is that no carbon legislation, or is that	5	A Consumers, excuse me.	
6	shorthand for no carbon regime as Judge	6	Q So you didn't kind of modify this in order to	
7	A That is in fact no carbon impact whatsoever	7	change some fundamental assumption. You applied the	
8	on any unit, biomass or coal or combined cycle or	8	same approach that you did when you did the base case?	
9	market prices.	9	A Yes. And what we're trying to show with all	
10	Q And does that mean also no activity by	10	this data is that we have a most likely case, which is	
11	Congress and no activity by regulation, the EPA?	11	the base case, and then we have positives and negatives	
12	A That means no activity in the carbon	12	that could happen. We agree that there is a	
13	costs arena no impact whatsoever for carbon.	13	significant amount of uncertainty, but there are	
14	Q Okay. Were you present yesterday when	14	positive uncertainties and there's negative	
15		15	uncertainties. We're trying to show the drivers to	
16	A Yes, I was.		that uncertainty, and has been pointed out renewable	
17	Q And were you present when he said this no	17	<i>E</i> , <i>E</i>	
١.	•	18	projects and carbon neutrality is a significant driver.	
19	A Yes, I was.	19	But on the flip side, under high power	
20	<ul><li>Q Do you have any comments about that?</li><li>A Yes, what he is failing to understand, I</li></ul>	20	prices, these will even more beneficial if Mr. McKinley is able to save that \$10 million that he	
22	suspect from the discussions he had, was as has been	22	discussed in contingency, these will again be more	
23	pointed out by opposing counsel that the REC prices go	23		
24	up when carbon is removed from the energy market. And		we're seeing today, they will be even more beneficial.	
	similar to what Ms. Scheller explained, in order to get	25	You shouldn't just look at the negatives, you	
	641			643
1	the renewable energy units built, they're going to	1	should look at the positives and the negatives, and	
2	expect to get a fair return, and renewables would make		that's what we're trying to show here.	
2	expect to get a fair return, and renewables would make up for the reduction in renewable energy credits		that's what we're trying to show here.  Q Thank you.	
2	expect to get a fair return, and renewables would make up for the reduction in renewable energy credits would make up for the reduction in the energy revenue.	2 3 4	that's what we're trying to show here.  Q Thank you.  Now, Mr. Norwood said yesterday that he asked	
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1 Mr. Norwood's adjustments, Mr. Norwood's test.	1 MR. McNAMEE: The company calls David Faison,
Do you have any comments about that test and how Mr. Norwood did it?	2 please. 3 REBUTTAL DIRECT EXAMINATION
4 A Well, what Mr. Norwood did was take our base	4 BY MR. McNAMEE:
5 case and adjust arbitrarily he didn't really have	5 Q Mr. Faison, did you provide a document
6 any fundamental or he didn't have any fundamental	6 consisting of five typed pages of questions and answers
7 reasons besides historical, which we believe history is	7 and we have a public version entitled "The Rebuttal
8 in this case no no direct bearing on the future	8 Testimony of David W. Faison"?
9 because of the future requirements of renewables. So	9 A Yes, I did.
10 he arbitrarily took many reductions and didn't use an	10 Q Was that prepared by you or under your
11 integrated model approach, but he and he in fact	11 supervision?
12 wrote he increased wood prices by 10 percent.	12 A Yes, it was.
And in our in the time period from when we	13 Q And that is the document that was filed with
14 filed the direct testimony to the time period when the	14 the Commission on December 22nd, 2011?
15 hearing has occurred, we have found out that we in fact	15 A Yes, it was.
16 were too conservative, and the wood prices should have	16 Q Do you have any additions or corrections?
17 been lower. Therefore, he certainly went in the wrong	17 A No, sir.
18 direction there. Combining all the negatives, he still	18 Q If I were to ask you those same questions
19 came up with basically a break even.	19 again, would your answers be the same?
20 MR. McNAMEE: All right.	20 A Yes, they would.
And, Your Honor, for the rest of my questions	MR. McNAMEE: Your Honor, at the appropriate
22 and for Mr. Kelly's surrebuttal, they are all in	22 time, I would like his testimony to be made an exhibit 23 and entered into the record.
<ul> <li>extraordinarily sensitive.</li> <li>COMMISSIONER JAGDMANN: Okay. We'll go off</li> </ul>	23 and entered into the record. 24 COMMISSIONER JAGDMANN: Mr. Faison's rebutte
25 the web for extraordinarily sensitive surrebuttal.	25 testimony is marked as Exhibit 56, and it is admitted
25 the web for exhibiting solishive surrounds.	25 testimony is marked as Exmon 50, and it is admitted
645	67
I If you have not signed the extraordinarily	1 into the record subject to cross.
2 sensitive agreement, you need to leave the courtroom.	2 (Exhibit No. 56 was marked for
3 (Whereupon, pages 646 through	3 identification and received in
4 676 were marked extraordinarily	4 evidence.)
5 sensitive and attached under	5 MR. McNAMEE: Thank you. Your Honor.
6 separate cover.)	6 BY MR. McNAMEE:
7	7 Q Mr. Faison, were you in the room yesterday
8 9	8 when Mr. Norwood, Consumer Counsel's witness, was 9 testifying?
10	10 A Yes, I was.
11	11 Q And do you recall him saying that these three
12	12 coal units, the Altavista, Hopewell and Southampton
13	13 power plants, should remain on coal and that they could
14	14 serve as peaking units?
15	15 A Yes, I recall that.
16	16 Q Do you think that's reasonable for those
17	17 units to operate as peaking units?
18	18 A No, I do not, for a number of reasons.
19	19 Mr. Kelly mentioned this morning that these facilities
20	20 have high fixed costs, and that's due to the labor. I
21	21 believe he cited the staffing level is at around 30
22	22 comparable to Bear Garden, so the staffing levels are
23	23 very high for a small amount of megawatts.
24	These units are coal units, as we know, at
25	25 the moment. Their startup times are fairly long, 12

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679 1 hours plus, which is -- doesn't mean they can't peak, 1 under purchase power agreements and sales of steam. 2 but the peaking units are typically required to start 2 And reliability was a paramount concern on the part of 3 faster than that. You don't normally have a lot of 3 the designers when these plants were built because 4 notice when the peak is going to occur, so you need to 4 unavailability would negatively impact the revenue 5 have a unit that will respond quickly. These don't. 5 significantly. 6 But because of the high fixed costs, if these 6 So these units were built to run long periods 7 units aren't converted, I think we saw an exhibit maybe 7 of time without maintenance and with great reliability. 8 the first day where Glenn had projected the capacity 8 They are simple, rock solid, reliable units. The 9 factors for these units, absent the biomass conversion, technology chosen is not modern technology. These are 10 to decline in the order of 3, 4 percent, certainly low 10 not pulverized coal units. They burn coal on a 11 single digits. With the high fixed costs, these units 11 great -- very simplified system compared to typical 12 will not survive as operating units outside of the 12 utility unit. No utility unit has been built with this 13 biomass conversion. They will be put into cold reserve 13 technology for half a century. 14 just like Altavista was a couple of years ago. 14 And because of that, many of the failure And cold reserve is not simply turning the 15 points simply do not exist on these units. There is no 16 switch off and waiting to restart it. We put the units 16 pulverized coal equipment, there is no heavy machinery 17 into a state of preservation, much like the Navy would 17 involved or crushed coal, and all the safety systems 18 do if they lay up a warship. The unit is partially 18 and control systems needed to operate on pulverized 19 disassembled, corrosion inhibitors are installed, the 19 coal. Flame scanners and the like, they are just not 20 pressure boundaries are breached, dehumidification present on these units. They are very simple, almost 21 equipment is installed. 21 like burning coal in a grate in your fireplace. 22 22 In the case of Altavista, it took us about Additionally, the designers built in a 23 from the middle of October, when we put the plant in 23 tremendous amount of redundancy in the critical pumps 24 cold reserve, until Christmas, about two-and-a-half 24 to keep these units operating. There is no single pump 25 months, to get the unit in a state of preservation. It 25 failure in any of these units that will require a unit 680 682 I will take just that long to get it back. Meanwhile, 1 to be shut down for maintenance. It enables us to do 2 the staff is gone. 2 planned maintenance while the unit is operating because So to restart these units as peaking units. 3 we can take a redundant component out of service to do 4 you have to have several months' notice and the expense 4 that. 5 of bringing them back, plus you have to hire staff and 5 The designers also chose, for the sake of 6 train them, which is not a practical thing to do. reliability, to split the units up into two boilers. I Q Thank you, Mr. Faison. 7 think most people that are in the industry understand 8 Were you also present in the courtroom when 8 that fossil unit is one of the greatest, if not the 9 there were discussions by Mr. Norwood and the greatest, cause of unavailability is tube failures. 10 Commission staff that raised concerns about the ability 10 Certainly true here, but a single tube failure will 11 of the three units to actually run at a 92 percent only shut down half of the plant. I believe the staff 12 capacity factor, and basically suggesting that they 12 mentioned yesterday that indeed the unit is partially 13 wouldn't be available to run that much? 13 unavailable, and I think I say that in my rebuttal 14 Can you provide some commentary on that? 14 testimony. But a three-day tube leak repair outage in 15 A I can. Yes, I was in the room when he said 15 one of these units has only half the effect on 16 that. 16 equivalent availability as a comparable utility As I mentioned in my rebuttal testimony, coal-generating unit. So they're very, very reliable. 17 18 these three units are very different in design and 18 Also, post-conversion, because of the 19 construction from any of the other coal units that the 19 additional physical volume of wood that has to be fed 20 company operates. They were, as the Commission 20 into these units versus coal, the unit output is 21 probably recalls, were developed by others as NUG 21 decreased. I think we said it's 51 megawatts -- 50

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22 megawatts versus 63 now, so the rate of heat release

23 inside these furnaces is 20 percent less than they were

24 designed to handle. So they're not galloping; they're

25 just loping under this conversion scenario.

22 units, PURPA units, qualifying facilities. They had

25 revenue from a couple of sources, capacity payments

And the original developers received their

23

24

steam hosts.

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1 2 2 3 3 4 4 5 5 6 7 7 8 8 9 100 111 122 13 144 155 166 177 18 19 20 21 22	capable of being run by original design. Lots of redundancy built into the units, lots of maintenance flexibility.  Q Thank you, Mr. Faison. One final question. The Consumer Counsel asked the question in its seventh set, Question 99, as to whether or not that the company was aware of capacity factors at other biomass facilities around the country.  Do you recall that question? A Yes, I do. Q And did you sponsor a response on behalf of the company to that? A I did. MR. McNAMEE: All right. Your Honor, I would like to just have entered as an exhibit without discussion, unless one of the other parties does, this document. If it may be marked as an exhibit.  COMMISSIONER JAGDMANN: Question and answer to the Office of the Attorney General, seventh set,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reason for converting to pulverized coal many, many decades ago was to increase thermal efficiency versus burning on a grate. So it does not burn as efficiently.  These units were designed not with thermal efficiency in mind but with reliability in mind. For instance, they are a non-heat recycle. No utility has done that since the '50s.  It also reduces complexity. It does not help efficiency, but there is a whole set of boiler components, heat transfer surfaces, valving, controls and so forth that are absent because of that decision the designers and developers made. So they are less efficient.  Have they dispatched at high reliability?	
22 23		23		
24 25	into the record.  MR. McNAMEE: Thank you.		or four years where they are in the 90s in equivalent	
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1 2 3 4 5 6 7 8 9	COMMISSIONER JAGDMANN: Is it extraordinarily sensitive?  MR. McNAMEE: It is not. Your Honor.  COMMISSIONER JAGDMANN: Okay.  (Exhibit No. 57 was marked for identification and received in evidence.)  MR. McNAMEE: The witness is available for cross.  COMMISSIONER JAGDMANN: Mr. Rambo.  MR. RAMBO: No questions, Your Honor.	1 2 3 4 5 6 7 8 9 10	Q What about capacity factors? A Capacity factors have been very low because their thermal efficiency is low. Q Have they ever has the capacity factor since you've owned them ever been above 75? A No, sir. They wouldn't clear the market that many hours of the year. Q So they've never been a base load unit? A No, sir.	
	COMMISSIONER JAGDMANN: Mr. Monacell. MR. MONACELL: Just a couple of questions. REBUTTAL CROSS-EXAMINATION BY MR. MONACELL: Q Mr. Faison, you talked about the reliability and the redundancy of the components of the units. But you also mentioned that the technology was relatively	12 13 14 15 16 17 18	program that existed prior to the time you bought these NUGs to buy out NUG contracts?  A I'm not aware of the company program. My understanding is that and the Commission agreed with the company's assertion back in 2001 it was in the customer's interest to acquire these facilities and	
20 21 22 23 24	What about the efficiency of the units; are they particularly efficient in terms of having a during the time that you've owned the units, have they	20 21 22 23	Q So the purpose of buying them from the NUGs	

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1	You have to remember those PPAs were not	1	A I do not.	k
2	they were signed under the PURPA law, which kind of put	2	Q And if you were asked the questions appearing	4
3	its thumb on the scale of economics in favor of the	3	there today, would you provide the same answers?	ŀ
4	developer in the interest of energy efficiency for the	4	A I would.	¢
5	country. So when that act kind of went by the wayside	5	Q Do you wish to sponsor it as your prefiled	4
6	and the electricity markets deregulated, the capacity	6	rebuttal testimony?	
7	and energy price we were paying out of these units was	7	A I do.	
8	out of market, and it was cheaper and in the best	8	MR. DAHL: Your Honor, I ask that the document	
9	interest of the customers to buy the PPAs out and own	9	be marked and admitted at the appropriate time into the	
10	the facilities, and the Commission agreed at that time.	10	record.	
11	Q When did the company first consider	11	COMMISSIONER JAGDMANN: Mr. Kingsley's	
12	converting any of these units to biomass?	12	rebuttal is marked as Exhibit 58 and 58-ES, and it is	
13	A In the first part of 2010 is when the idea	13	admitted into the record subject to cross.	
14	had its genesis and we began to look at it.	14	(Exhibit Nos. 58 and 58-ES were marked	
15	MR. MONACELL: Nothing further.	15	for identification and received in	
16	MR. REISINGER: No questions.	16	evidence.)	
17	MR. ROUSSY: No questions, Your Honor.	17	BY MR. DAHL:	
18	COMMISSIONER JAGDMANN: Any redirect?	18	Q I just have a few questions first.	
19	MR. McNAMEE: No, Your Honor.	19	Were you here two days ago when there was	
20	COMMISSIONER JAGDMANN: Thank you, Mr.	20		
1	Faison.	21	from Dominion to EPA was discussed?	
21	You may be excused.	22	A I was.	
22	MR. DAHL: The company would call Eric	23	Q It's been a couple of days. Why don't I put	
23	Kingsley.	24		
24	WHEREUPON,	25	I believe this letter was attached to	
25	ERIC KINGSLEY,			
			<del></del>	
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	688			690
1	688 called as a witness, and having been first duly sworn, was	1	Mr. Norwood's testimony as his Exhibit SN-7, and it is	690
1 2	called as a witness, and having been first duly sworn, was examined and testified as follows:	1 2	a September 13th. 2010 letter from Pam Faggart.	690
	called as a witness, and having been first duly sworn, was	1 2 3	a September 13th. 2010 letter from Pam Faggart.  Dominion's chief environmental officer, to the EPA.	690
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691 So, clearly, these are unique units. The Q I guess starting from the forest floor to the 2 fact that they're stoker units is very much in keeping 2 realm of public policy, be it by legislation or 3 with how biomass has been approached over the years. 3 regulation, what in your opinion are the prospects for 4 So these are, in my experience, unique situations. 4 the basis of biomass or, in this case, forest residue being considered something other than carbon neutral? Q Several witnesses at this hearing have 6 commented on the carbon neutrality of biomass. Have 6 A I have a high level of confidence that all 7 biomass will be considered carbon neutral. I have 7 you been present for those discussions at this hearing? 8 complete confidence based on the science that forest A I've been present, yes. Q You have a resume and your background in your 9 residue will be considered carbon neutral going 10 testimony, but in short, what's your background in 11 ·Q Now, turning to Dr. Abt's testimony --11 biomass wood resources and resource economics? 12 COMMISSIONER CHRISTIE: Before you leave that. 12 A Sure. I'm a resource economist. I spend all 13 This has always fascinated me. Walk me through again --13 day every day worrying about wood, what it costs, how 14 to manage -- how to manage fuel supply or feedstock 14 THE WITNESS: Yes. 15 COMMISSIONER CHRISTIE: -- why a commodity 15 supply for large wood users. Again, worked on over a 16 hundred projects, not only in the country but 16 that when you burn it produces twice as much carbon as 17 internationally. And carbon neutrality in the last few coal is considered carbon neutral. Just walk me through 18 years has obviously become a more and more important 18 that again. 19 issue, so it's something I stay abreast of. 19 THE WITNESS: Particularly for forest 20 Q And from that perspective, what is your view residues, which is --21 on biomass? And I guess for this proceeding we're 21 COMMISSIONER CHRISTIE: Right, we're talking 22 hardwood standing trees. 22 specifically talking about forest residue being carbon THE WITNESS: So we're talking forest 23 neutral. 23 24 24 residues, just so I'm answering your question correctly. A Yes. There have been several questions, 25 COMMISSIONER CHRISTIE: Okay. 25 including some important questions from the bench, 692 694 1 about carbon neutrality and biomass being considered THE WITNESS: That carbon, the carbon in those 2 carbon neutral going forward. There's a longstanding 2 tops and branches, has entered the carbon cycle. It 3 and very good case for all biomass, particularly all 3 will enter the terrestrial carbon cycle through 4 forest biomass, to be carbon neutral, which we can 4 decomposition or it will enter the carbon -- the 5 terrestrial cycle through combustion. The combustion is 5 discuss if you want. But the more important case is around forest 6 obviously instant. The decomposition can take years. 7 But it is no longer growing and, for lack of a better 7 residues, and that is tops, branches, limbs, pieces of 8 the tree that don't have another use. When a piece 8 term, sequestered. It is back in the carbon rotation. 9 of -- when a tree is harvested as a saw log to become 9 And, therefore, whether you make use of it as a fuel and 10 produce energy or whether you leave it in the forest to 10 lumber or for pulpwood, not just the lower 8 feet or 11 10 feet or 12 feet is harvested. The entire tree is 11 decompose, it is in the carbon cycle, and --12 COMMISSIONER CHRISTIE: So the theory is, if 12 severed from the stump, and at that point is no longer 13 living, growing, sequestering carbon. The tops, 13 it's lying on the ground, it's decomposing and giving 14 branches, anything not becoming lumber or another high 14 off carbon. 15 THE WITNESS: Yes. 15 value product has at that point entered the carbon 16 COMMISSIONER CHRISTIE: And if you burn it, 16 cycle. you just -- you just speed it up. 17 Every credible analysis of carbon cycling as 17 18 THE WITNESS: Speed it up and capture 18 it relates to forest biomass recognizes forest residues 19 benefits. 19 as carbon neutral. In fact, even the Manomet report 20 done in Massachusetts, which is a report that has been 20 COMMISSIONER CHRISTIE: How long does it take 21 widely criticized, has -- there are other reports out 21 to decompose if it's lying on the ground? 22 THE WITNESS: Depends on the location, but for 22 taking another position, but even that report 23 smaller woody debris, 10, 15 years, and you can -- 20, 23 recognizes that carbon -- I'm sorry, biomass from 24 forest residue has a positive carbon profile, in my 24 25 years for big old logs sitting on the ground.

25 experience, universally recognized.

25

COMMISSIONER CHRISTIE: So the difference with

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2 3 4 5 6 7 8	coal is at least coal's in the ground THE WITNESS: Coal is in the ground and staying in the ground.  COMMISSIONER CHRISTIE: decomposing but it's taking several million years, right?  THE WITNESS: Yes, it's on a completely different time scale. Well, on a time scale for humans, and if you're concerned about carbon, the million-year cycle doesn't matter; the 20-year cycle matters.  BY MR. DAHL:  Q Mr. Kingsley, were you present here for	2 3 4 5 6 7 8 9 10	a rule of thumb, correct. But as that stumpage price changes, it doesn't cost the logger more to fell the tree, it doesn't cost more to skid the tree, it doesn't cost more to transport that log to a final market. So an increase in stumpage price isn't truly a third because it doesn't go to all those other components that end up in the final piece.  Q And do you have any other comments on Dr. Abt's testimony as it pertained to wood supply?  A Dr. Abt's testimony my analysis work from the Virginia Department of Forestry, all using forest inventory FIA data, Forest Inventory and Analysis	9
13 14 15 16 17 18 19 20 21 22 23 24	Forest Watch?  A I was.  Q Do you recall I asked Dr. Abt about what he called a price analysis that he presented in his testimony?  A Yes.  Q And he testified that the projected prices in his analysis were based on roundwood stumpage. Do you	13 14 15 16 17 18 19 20 21 22 23 24	data, consistently show that there's sufficient wood supply in this region.  Q And were you also present for Mr. Norwood's testimony yesterday where he discussed what he viewed as various uncertainties in the company's case and he included in those issues the issue of fuel or, in this	
1	696 felled and turned into a log, that's when you switch	1	uncertainties in fuel supply.	698
2	over to delivered price, and he said the stumpage in	2	Do you have any comments on that testimony?	

3 his estimate might be one-third of the delivered price.

Do you recall that exchange?

5 Yes.

Q Do you have a response to Dr. Abt's price

7 analysis and it being based on stumpage prices?

A Well, his description of stumpage and its pricing effect was I think largely accurate. The

10 analysis, leave it aside for a minute, but landowners

11 are paid for wood on the stump; thus, the term

12 "stumpage." It's standing there and you paid for a

13 standing tree, then the logger harvests it and all the

14 costs associated with that.

15 Dr. Abt's testimony, his analysis focused 16 entirely on stumpage. Not only stumpage but roundwood

stumpage, not residue. So not what a landowner would

18 be paid for any residue.

19 Therefore -- there's two pieces. One is 20 these facilities for a lot of reasons are focused very

21 heavily on residue. And, therefore, what does or

doesn't happen with roundwood stumpage prices is

23 largely irrelevant.

24 More importantly, the -- his statement that

25 roundwood stumpage makes up a third of the price is, as

A I was here for that, and Mr. Norwood viewed

4 many suppliers, so the many, many loggers that will

5 supply each of these facilities as a negative. The

6 biomass industry has traditionally viewed that, and I

7 view it very much, as a positive. It's a redundancy

8 and a hedge against any one particular supplier having

9 an issue.

10 Will there be loggers over the course of the

facilities' life that go out business, stop supplying,

12 move on to something else, retire, whatever else? Of

13 course, there will be. But when you have -- a biomass

facility typically has 40, 50 core suppliers. When you

15 lose one, you have another 49 that can slightly adjust

16 their volume while that is made up.

17 I think Mr. Workman will be able to discuss

18 Pittsylvania's experience with that. But very

19 typically in the biomass industry, the diversity of

20 supply is truly a redundancy of supply.

21 Q And both Mr. Norwood and the Virginia Forest

22 Watch witnesses raised this issue of a short-term high

23 demand for wood that might happen if these projects are

24 all completed, and I believe it was characterized as an

25 unprecedented surge in supply at one point.

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2 3 3 4 4 5 5 6 7 7 8 8 9 100 111 122 133 144 155 166 177 18 19 20 21	of these scenarios, let's say the logger has the technical capability, so it has the equipment he needs to gather all this residue, the chipper and whatnot.  And he's got the economic incentive to pick up every scrap of not every twig, but let's say virtually every scrap.  A That would be quite the economic incentive.  Q Right, the logging residue.  But let's say in one scenario the BMPs are not a factor. There are no BMPs, or if there are, they're ignored, they're sort of blown off. And in the other scenario the BMPs are faithfully and fully adhered to, despite this economic temptation to go out and grab them all. They leave them there to comply with whatever the BMP means for that site.  So if you took a photograph of the no BMP scenario after the logger had left the site, gone on to log somewhere else, if you compare that to a photograph of the BMP site, you're going to see logging residue left on that BMP site, limbs and tops. But then in the no BMP photograph, the logger has the equipment, it's	9 10 11 12 13 14 15 16 17 18 19 20 21	Q and a contract with MeadWestvaco. A Yes. Q And so do I have it right that the expectation is that what is going to happen is that Enviva and MeadWestvaco go out or they have their loggers go out or they contract with loggers who go out, and they cut down the tree, and Enviva and MeadWestvaco have their own uses for the stem of that tree, but they don't have any uses for the logging residue. So that residue of the stem of the tree, the trunk of the tree is going to go one place, Enviva or MeadWestvaco, and the residue is going to go to the plant to Dominion's plants; is that right?  A Yeah. In fact, as Mr. Woodfin, your witness, testified, the two selected fuel contractors who will not be out harvesting on their own but are out purchasing and active in these markets already are roundwood users. They use wood that can be debarked and used in their process for their primary products being pellets and pulp and paper, respectively. So they are incented they are inherently incented to	705/ 66/ 66/ 66/ 66/ 66/ 66/ 66/ 66/ 66/ 6
22		22		
23		23		
24		24	So, though and I think we will get to this	
25	A Generally, yes. Generally.	1	later, but the facility at Covington will have a	
	704			706
1	I would point out that your initial	1	biomass boiler and they will also be using some level	706
2	I would point out that your initial hypothetical where every scrap, twig is removed is 1	1 2 3	biomass boiler and they will also be using some level of biomass there. So they some	706
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2 3	I would point out that your initial hypothetical where every scrap, twig is removed is I mean it's been achieved in scientific studies, it's not achieved	3	biomass boiler and they will also be using some level of biomass there. So they some Q The residue A So that is three hours away. The procurement	706
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2 Watch's 3 the mar 4 market. 5 going to 6 to come 7 We talk 8 Dr. Abt 9 testimo 10 A 11 Q 12 A 13 a dynan 14 large, if 15 Q 16 we're lo 17 people of 18 coming 19 A 20 can poin 21 fluidity 22 and go 23 Q	Yes as one example of that. The forest products industry has always been nic marketplace. Companies come and go, by and the market is large, stable. But within a particular geographic area that oking at for these projects, there's fluidity; are companies are dropping out, companies are in. There's fluidity, and when we get into ES, I not you to some a way to show that the is actually relatively stable. Companies come but the market remains stable. Now, Dr. Abt mentioned when he was on the		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	wood stick together without an additive which is what happens with pellets, it is forced together under heat the silica going into those dyes basically acts as sandpaper and destroys them and adds wildly to the capital costs.  Would a pellet manufacturer like to use residues? Yes. Has it been tried and tried and tried? Yes. Wholly unsuccessful in every piece I've seen.  COMMISSIONER JAGDMANN: We're going to take a break at this point until 1:15. And we will begin again  MR. RAMBO: Right. And my next questions are extraordinarily sensitive. That is all my public.  COMMISSIONER JAGDMANN: This is a good time then.  COMMISSIONER CHRISTIE: Let's just say 1:05.  JUDGE JAGDMANN: Judge Christie will be presiding, so you will start at 1:05.  (Whereupon, at 12:04 p.m., a luncheon recess was taken.)
23 Q 24 stand th				
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2 If 3 A A 4 from so 5 Q 6 of the w 7 that? 8 A 9 needed 10 understa 11 Q 12 does in 13 pellets f 14 that's so 15 correct, 16 logging 17 A 18 have a r 19 Anyone 20 for your 21 econom 22 F 23 the brov 24 silica, ar	manufacture pellets from logging residue. Do you remember when he said that? I remember him saying he had inferred that mething he saw. Well, I'm going to I'm not sure of the use ord "inferred," but you remember him mentioning. I remember him mentioning it, and then he a place to call because he didn't really and what it particularly said. So if that development follows through and it fact happen that there's a technology to make from logging residue, that's going to change ret of an example of how the market can change, that there would then be this new way to use residue, this new demand for logging residue? Sure, that would be an example, but it's I number of clients in the pellet industry, would obviously like to use lower value products feedstock, for your input. That's a natural ic driver. However, the outside of the tree, the bark, you part, is what contains sand and dirt and and sand and dirt and silica in a pellet dye, an imagine the force necessary to make that		6 7 8 9 10 11 12 13 14 15	AFTERNOON SESSION (1:05 p.m.)  WHEREUPON, ERIC KINGSLEY  was called for continued examination, and having been previously duly sworn was examined and testified further as follows: COMMISSIONER CHRISTIE: Mr. Rambo, you are still up. MR. RAMBO: Yes, Your Honor. At this time, Your Honor, my questions go into extraordinarily sensitive area. COMMISSIONER CHRISTIE: Okay. We're going to go off the web, and anyone who has not signed the requisite agreement, please exit. Okay. And web's off, right, Sherman? All right. (Whereupon, pages 711 through 723 were marked extraordinarily sensitive and attached under separate cover.)

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	7	724		7
l	COMMISSIONER CHRISTIE: All right.	1	Q Before the break Mr. McNamee asked you some	
2	We're back in public session.	2		
3	REBUTTAL CROSS-EXAMINATION	3	<b>3</b> · · · · · · · · · · · · · · · · · · ·	
4	BY MR. REISINGER:	4	3	
5	Q Good afternoon, Mr. Kingsley.	5	•	
6	A Good afternoon.	6		
7	Q I want to start by asking you a few questions	7		
	about your surrebuttal comments before the lunch break.	8	4 4	
9	A Yes.	9	• • • • • • • • • • • • • • • • • • • •	
0	Q I guess before we get to that, let me ask	10	<i>3</i> , <i>3</i>	
	you, you're based in Maine; is that correct?		•	
2	A I live in my office is based in Maine,		the last few years. Is that correct?	
	yes. I work all over the country.	.   13		
4	Q Just looking at Appendix A to your testimony,	14	Q You believe that that idea that biomass should be treated as a carbon neutral is controversial	
	INRS is based in Portland, Maine, or			
6	A INRS is based in Antrim, New Hampshire. My	16	and it's become more controversial over the last few years?	
7 8	office is in Portland, Maine.	18		
	And for biomass, you know, I guess I'd point out that New England has a 25-year history of an awful	1 -	certainly become controversial. There are a number of	
	lot of biomass plants coming out of the PURPA era.		academic studies that support the position of carbon	
l	We're an area with a lot of experience about what works	21		
	and doesn't, and so I'm based in Maine. I worked	22	•	
	previously in New Hampshire, as this shows, but my work	23		
4	takes me all over the country and internationally			
	takes me all over the country and internationally.  Q You said you've worked on over a hundred	24 25	•	
	Q You said you've worked on over a hundred		•	
5	Q You said you've worked on over a hundred  7 biomass units?	25	A Actually, you  Q Massachusetts.	
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1	A I don't think I spoke specifically to the	1	signals is whether biomass will be treated as carbon	
2	deferral, but I know the conversation you're		neutral?	
3	referencing.	3	A Did I write that?	
4	Q You're aware you're aware of the deferral?	4	Q I'm just asking you in general.	
5	A I'm aware of the deferral.	5	A Certainly for residues, I do not believe that	
6	Q Are you aware that the original rules did not		is an issue at all.	
7	treat biomass as carbon neutral?	7	Q Okay. Now, actually, moving on to this	
8	A I'm aware that the original proposal did not		article, let me just ask you real quickly, am I correct	
9	treat I don't believe they were adopted as rule.		that you are telling the story of some biomass	
10	Q I'm just going to ask you I apologize that		operations in New Hampshire that are having a tough	
11	31		time right now?	
	you	12	A They were on May 16th of last year.	
13	A Can I ask what this is from? Is this the	13	Q They are having a tough time in part due to	
14	Federal Register?  Q Sure. This is this is from the Federal	15	recession-related drop in electricity demand?  A Correct. These would be merchant plants,	
	Register, and I just want to ask you if this this is		yes.	
17	your understanding of what the EPA has done in	17	Q And in part due to low REC prices?	
18		18	A And low REC prices are in fact related to the	
19	It's your understanding that the EPA has	19	drop in electricity demand because REC markets, as	
20	deferred for three years the question of whether of	20	discussed yesterday, are a percentage base of total	
21	how biogenic CO2 emissions will be treated?	21	electricity sales, so when one drops the other drops.	
22	A That is my understanding.	22	Q You still agree with this statement on the	
23	Q And EPA believes that that three-year period	23	bottom here that wood fuel is the largest and most	
24	will give it time to consider the results of detailed	24	variable cost for biomass plants?	
25	examinations of the science of these emissions and	25	A As a rule, yes. There can certainly be other	
	729	-		731
ì	undertake a rulemaking to determine the best way to	1	instances.	
2	account for biogenic CO2 emissions?	2	Q Now, do you recall in this article, you also	
3	A That appears to be what it says.	3	talk about some some facilities that might not get	
4	Q I want to ask you next about an article that	4	through might not get through this without some	
5	you wrote. I believe it was a publication called	5	downtime, meaning they might might have to shut	
6	Renewable Energy World. Are you familiar with that	6	down?	
	article?	7	A Take seasonal downtime, yes. They ended up	
8	A Yes.	8	,	
9	Q The title is "Biomass Energy: Mixed Signals	1.9		
10			point.	
11	A Yes.	11	Q The concerns that you've seen in New	
12	Q Is that correct? A Yes.	12	Hampshire, you don't believe that they will apply to the company's the company's plants, do you?	
13 14	Q Is one of those mixed signals the question of	14	A These plants have fundamentally different	
15		15	capital costs, and they're 15- to 20-megawatt plants	
16	A I would need to reread the article to see	16	which give you much higher O&M on a per unit output	
	that. I see certainly	17	basis. If any of these were 50-megawatt plants, this	
18	Q Well, let me ask you	1	statement, I don't believe, would have been written.	
19	A l actually don't see maybe you have it	19	15 to 20. I don't know if I said just 15 megawatts,	
20	highlighted somewhere, but I don't see that I noted	20	but these are plants less than half the size of the	
21	carbon neutrality.	21	Q These are these are much smaller plants is	
22	Q Well, I was just asking	22	what	
23	A 1 sec the ISO New England REC, which is	23	A Much smaller plants with roughly the same	
24	different than the PJM REC market.	24	size staff.	
25	Q So you don't believe that one of the mixed	25	Q Okay. Let me ask you to turn to page 4 at	

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	732			734 <b>c</b>
2 3 4 5	<i>y</i> 1	1 2 3 4 5	A It's my understanding that there are some mechanisms around spot market, but that there is significant incentives for meeting certain price goals that are known at this time.  Q Turning back to page 4	# 0 ¥ 0 %
13 14	A That a sufficient sustainable supply of biomass fuel will be available, yes.  Q Is that a high degree of certainty that	11 12	MR. DAHL: You got the ES up there. MR. REISINGER: Thank you, sir. BY MR. REISINGER: Q Turning back to page 4 on line 7, your lines 6 and 7, you refer to the Pittsylvania power station, and you call it "until recently the largest standalone biomass electric facility in the United States." A On a capacity basis, that's true. Yes. Q Okay.	
17 18 19 20 21 22 23 24	ž į	18	A There's a new facility in Texas that's larger.  Q I want to ask you very quickly about discovery response, which I believe you  A Yes.  Q you signed.  A That is my  Q Response to  A my response.  Q to the Attorney General's sixth set,	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	about those contracts, but I do want to ask you a question about another statement on page 5 of your testimony. You say here that most biomass projects operate on a spot market; is that correct?  A And that's referring to their wood supply	2 3 4 5 6 7 8 9 10 11 12 13 14	No. 90. It's been marked as Exhibit 20.  And basically what you provided was a map of the Commonwealth, and you depicted the existing and proposed biomass facilities; is that correct?  A Well, existing and anticipated. I think "proposed" is a very loose screen.  Q Now, you just said that the Pittsylvania station, which I believe is indicated by this small P  A Correct.  Q is that correct?  You just said that the Pittsylvania station is one of, if not the largest standalone biomass energy facilities in the country.  A On a capacity basis. On a wood use basis,	
17 18 19 20 21 22 23	costs. yes.  Q But you on page on lines 11 through 14, you seem to indicate that this risk of operating on a spot market has been mitigated by what the company has done.  A It's been significantly mitigated in a way that in my experience is unprecedented.  Q So is it your understanding that the company's contracts will not be tied to the spot	17 18 19 20 21 22	which is really what's important, it's about a 50-megawatt wood use, which is for me what's important, and for wood supply analysis what's important.  Q So you agree that Pittsylvania would be it would be rated at approximately 83 megawatts?  A I agree that that is the capacity.  Q Okay. But you believe that the more real rating would be closer to 50?  A I believe the dispatch numbers at that and	

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1 1	use what would be comparable to a 50-megawatt base		lı	got the largest	
2			2	-	ζ.
3	•		3	for central Virginia. This is not unprecedented. But	
4				I have full faith and confidence that Virginia loggers	T O
5	A I believe 51 megawatts is the size.			and North Carolina loggers can supply this as they have	
6	Q Did you consider the proposed South Boston			in other parts of the country.	
7			7	· · · · · · · · · · · · · · · · · · ·	
8				to add.	
			9		
	3. 3		ı		
10	` , ,		10	,	
111	A Close to 50 megawatts. But when you look at		11	COMMISSIONER CHRISTIE: All right.	
	their capacity factor, their expected capacity factor,			Mr. Stogdale.	
	it if you will give me a moment, I know it's in this		13	MR. STOGDALE: The staff has no questions,	
	study. They come in with a wood use that is lower.			Your Honor.	
	They come in using what I would anticipate to be		15	COMMISSIONER CHRISTIE: Redirect.	
	350,000 tons of wood, so what's that? It's around a		16	REBUTTAL REDIRECT EXAMINATION	
ı	30-megawatt base load equivalent.		17	BY MR. DAHL:	
18	Q Fair enough.		18	Q Just real quickly, this was covered in the ES	
19	But you would agree that you're adding a lot	İ	19	<b>,</b>	
20	6		20	questions you were asked on that, so it's not ES.	
21	already have one of the largest biomass energy		21	You were asked about objective 3 of Dr. Abt's	
22	facilities in the country, correct?		22	study on page 2 of his testimony. And there was	ļ
23	A And there's a great infrastructure there to		23	just	
24	build upon in terms of supply. And there		24	A Objective 3 is the price	
25	Q "Infrastructure to build upon," meaning it's		25	Q Right.	
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١.			,	A substitute the order of a	Î
'	not there now?		1	A what he calls the price study.	
2	A Oh. there's there's loggers and suppliers		2	Q I just wonder if you could just clarify	
	there now, and there's there's more that can		3	things for the non-foresters among us the difference	
	obviously come into the market. That would be a very		4	between roundwood/residue, some of the terms we've	
1	good spot to set up a chipper dealership.			talked about there.	
6	Q And were you in the courtroom yesterday when		6	A Roundwood is exactly as it's described. It's	
7	Mr. Norwood testified?			actually cylindrical wood, but if you look down, it's	
8	A 1 was.		8	round; it can go cleanly through a debarker and be used	- 1
9					
LIA	Q Do you remember he was criticized for		9		
1	increasing fuel prices by 10 percent in his analysis?		9	be veneer mills, saw mills, pulp mills, pellet mills.	
11	increasing fuel prices by 10 percent in his analysis?  A I'll accept that.		9	be veneer mills, saw mills, pulp mills, pellet mills. Someone who needs a clean, white wood either in chip or	
11 12	increasing fuel prices by 10 percent in his analysis?  A l'll accept that.  Q Do you think it's unreasonable for the		9 10	be veneer mills, saw mills, pulp mills, pellet mills. Someone who needs a clean, white wood either in chip or board form.	
11 12 13	increasing fuel prices by 10 percent in his analysis?  A l'll accept that.  Q Do you think it's unreasonable for the company or the Commission to consider that fuel prices		9 10 11	be veneer mills, saw mills, pulp mills, pellet mills.  Someone who needs a clean, white wood either in chip or board form.  Residue is all of the tops, branches, sweep,	
11 12 13	increasing fuel prices by 10 percent in his analysis?  A l'll accept that.  Q Do you think it's unreasonable for the		9 10 11 12	be veneer mills, saw mills, pulp mills, pellet mills.  Someone who needs a clean, white wood either in chip or board form.  Residue is all of the tops, branches, sweep, crook. If you go into the forest and you see a little	
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11 12 13 14 15 16 17 18	increasing fuel prices by 10 percent in his analysis?  A I'll accept that.  Q Do you think it's unreasonable for the company or the Commission to consider that fuel prices might go up in this region as demand increases?  A The price discovery engaged in by Dominion actually showed that the price goes up a little bit from existing Pennsylvania levels but down from their earlier forecast levels.  So is it unreasonable? I suspect it's		9 10 11 12 13 14 15 16 17 18	be veneer mills, saw mills, pulp mills, pellet mills.  Someone who needs a clean, white wood either in chip or board form.  Residue is all of the tops, branches, sweep, crook. If you go into the forest and you see a little jagged spot, that is not going to go clearly through a debarker, that ends up as residue.  Q Thank you.  And you were also asked a question about page 8 of Dr. Abt's testimony, lines 18 through 20.	
11 12 13 14 15 16 17 18 19 20	increasing fuel prices by 10 percent in his analysis?  A I'll accept that.  Q Do you think it's unreasonable for the company or the Commission to consider that fuel prices might go up in this region as demand increases?  A The price discovery engaged in by Dominion actually showed that the price goes up a little bit from existing Pennsylvania levels but down from their earlier forecast levels.  So is it unreasonable? I suspect it's reasonable for the Commission to consider anything they want to consider. However, the facts show that the		9 10 11 12 13 14 15 16 17 18 19 20	be veneer mills, saw mills, pulp mills, pellet mills.  Someone who needs a clean, white wood either in chip or board form.  Residue is all of the tops, branches, sweep, crook. If you go into the forest and you see a little jagged spot, that is not going to go clearly through a debarker, that ends up as residue.  Q Thank you.  And you were also asked a question about page 8 of Dr. Abt's testimony, lines 18 through 20.  But the whole Q&A from lines 12 to 28 of page 8 of Dr. Abt's testimony, do you have any further comments	
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1 2 3	A Right. Well. I mean it becomes clear what is most important for MR. RAMBO: Objection. You know, if he I	1 2 3		¥
4	was asking him about lines 18 through 20, and that's the	4	Rebuttal Testimony of Gregory A. Workman" filed in both	9
6	scope of my cross, and that has to be the scope of the redirect.	6	public and in an extraordinarily sensitive version in this proceeding?	1
7	COMMISSIONER CHRISTIE: How does that fit	7 8	A Yes, I do. Q And was that document prepared by you or	
9	within that scope, Mr. Dahl?  MR. DAHL: I think he was he needs to he	9		
10	was not allowed to put the statement that he was asked about in context of the whole Q&A where it was.	10	A Yes. O Was it filed with the Commission on	
12	COMMISSIONER CHRISTIE: Well, I overrule it,	12	December 22nd, 2011?	
13	but you know what he said in response to his question, so stick to that.	13	A Yes. Q Do you have any corrections or additions to	
15 16	Go ahead.	15 16	that testimony at this time?  A I do not.	
	THE WITNESS: Well, I will just reread what I what the next sentence is, and that is, it did not	17	Q And if you were asked the same questions	
	consider the logistical and spacial distribution of the resource demands within the basin. And I believe I did	18 19		
20	read that to Mr. Rambo, and for any point-based study or	20	Q And do you wish to sponsor it as your	
21	a facility-based study, that's a critical piece. BY MR. DAHL:	21 22		
23	Q Finally, Consumer Counsel asked you about the article that you authored. You discussed the REC	23	MR. DAHL: I would ask that both the public and ES version be marked for identification and admitted	
	markets, the New England states there (inaudible), and		into the record.	
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1	ISO New England?	1	COMMISSIONER CHRISTIE: Okay. This will be	
3	A The New England states are in ISO New England.	2 3	•	
4	Q And I think you said there were some	4	for identification.)	
5 6	differences between that REC market and here. What are some of those differences?	5	MR. DAHL: I just have one question, but I think it will help to go up to the overhead.	
7	A Well, as discussed earlier, each state has	7	BY MR. RAMBO:	
8 9	different REC markets, different requirements, different tiers. There is actually four tiers as	8		
10	opposed to two. It's a completely different market.  MR. DAHL: Thank you. No further questions.	10 11	wood prices being volatile due to economic cycles, and we just heard further questions about the stability of	
12	COMMISSIONER CHRISTIE: All right,	12	fuel price just now.	
13	Mr. Kingsley, you can be excused.  THE WITNESS: Thank you, Your Honor.	13	Do you recall that testimony?  A Yes, I do.	
15	MR. DAHL: The company would next call	15	Q Do you have any comment on Mr. Norwood's view	
	Mr. Gregory Workman. WHEREUPON,	16   17	A Yes.	
18	GREGORY A. WORKMAN, called as a witness, and having previously been duly	18 19	Could I to illustrate page 11 of my direct testimony.	
20	sworn, was examined and testified as follows:	20	Q This is, yeah, Mr. Workman's direct, page 11.	
21 22	REBUTTAL DIRECT EXAMINATION BY MR. DAHL:	21	A We've experienced Q This this is ES.	
23	Q Good afternoon. Are you the same Gregory A.	23 24	•	
24	Workman that previously filed previously testified in this proceeding?		my direct testimony. Perhaps when we're in ES session,	

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,	I can show the chart.	Ι,	A No air
2		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	A No, sir.
_	But what we've experienced over the past 10	1 -	2 you were ablied the same questions rough,
3		3	
	Altavista wood markets. The chart merely depicts	4	11 100
	through multiple cycles that we've been in both up and	5	
	down cycles over the past 10 years, the stability of	6	
7	fuel prices during those different economic cycles.	7	A Yes, I do.
8	MR. DAHL: Thank you.	8	MR. DAHL: All right. I would ask that this
9	No further questions. The witness is	9	document, and it's just a public version, be marked for
10	available for cross.	10	identification and admitted to the record subject to
11	COMMISSIONER CHRISTIE: Mr. Rambo.	11	cross-examination.
12	MR. RAMBO: No questions, Your Honor.	12	COMMISSIONER CHRISTIE: All right. This will
13	COMMISSIONER CHRISTIE: Mr. Monacell oh, he	13	be marked as Exhibit 60, Bisha rebuttal, and there is no
14	is not here.		ES version. Without objection, it will be admitted.
15	Okay. Mr. Reisinger.	15	(Exhibit No. 60 was marked for
16	MR. REISINGER: No questions, Your Honor.	16	identification.)
17	COMMISSIONER CHRISTIE: Mr. Stogdale?	17	COMMISSIONER JAGDMANN: And I didn't ask for
18	MR. STOGDALE: No questions, Your Honor.	18	
19	COMMISSIONER CHRISTIE: Okay. Well, there is	19	
	no redirect then.	20	MR. DAHL: It goes into the record as well.
21	MR. DAHL: No redirect.	21	COMMISSIONER CHRISTIE: and 60 are
22	COMMISSIONER CHRISTIE: Thank you,	22	
23	Mr. Workman.	23	
			(Exhibit Nos. 59, 59-ES and 60 were
24 25	THE WITNESS: Thank you.  MR. DAHL: The company would next call	24	received into evidence.) BY MR. DAHL:
	was a same and company would note that		5. I.M. 5. I.L.
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1	Mr. Robert M. Bisha.	١,	Q Mr. Bisha, on Tuesday afternoon here, the
2	WHEREUPON.	2	first day, we had a discussion including among counsel
3	ROBERT M. BISHA.	3	and the Commissioners on the various conditions
4	called as a witness, and having previously been duly	1	recommended by the Virginia Forest Watch witnesses how
	sworn, was examined and testified as follows:	]	much biomass to leave behind at logging sites, that
-		ı	
6 7	REBUTTAL DIRECT EXAMINATION	7	sort of thing, and this Commission's jurisdiction and any current regulating done by, say, the Department of
	BY MR. DAHL:	′	
8	Q Good afternoon.	i .	Forestry or the DGIF.
9	Are you the same Robert M. Bisha that	9	Were you present for that discussion?
10	previously testified in this proceeding?	10	A Yes, I was.
l I	A Yes, I am.	11	Q And those questions included a discussion of
2	Q And do you have with you a document	12	· · · · · · · · · · · · · · · · · · ·
	consisting of six typed pages of questions and answers	13	,
	entitled "The Rebuttal Testimony of Robert M. Bisha"	14	A That's correct.
5	filed in this proceeding, I believe only as a public	15	Q And that's the subject of your testimony.
6	version?	16	right?
7	A Yes, I do.	17	A Yes, it is.
8	Q Was that document prepared by you or under	18	Q Do you have anything further to add to that
9	your direction?	19	discussion?
0	A It was.	20	A A couple of things.
!1	Q And was it filed with the Commission on	21	I would like to add that the reviews
	December 22nd of last year?	l	conducted by the Department of Forestry and the
23	A Yes, it was.	23	Department of Game and Inland Fisheries were consistent
23 24	Q Do you have any corrections or additions to	!	with the memorandum of agreement and the procedure used
	that testimony?		for the coordination amongst the agencies and the
رد	mar resumony?	43	for the coordination amongst the agencies and the

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2 3 4 5 6 7 8 9 10 11 12 13 14 15	of Forestry did sponsor a letter that we had put in the environmental supplement, the Charlie Becker letter, that does support the position that there's adequate fuel for these for these projects, and does not go on to specify any specific limit or regulate any specific debris amount or management of the forest as it's harvested.  I also wanted to mention that the Department of Forestry's best management practices that we have contracted with our fuel suppliers to follow do provide for environmental protections and forest resource sustainability, and that is an important factor, we believe, and that is one of the reason those provisions were sought after in the fuel contracts.  Q There were also some questions on that first day of company witness Leopold about a Dominion letter signed by Ms. Faggart, dated September 13th, 2010. I	1 biomass conversion from coal, so they are different and 2 unique from the broad brush approach that we had 3 presented in the in the letter to EPA. 4 Q What are some of those distinguishing 5 factors? 6 A Well, the assumptions on the deferral of 7 carbon and the carbon neutrality that's had extensive 8 discussions, the PTCs and the RECs have had extensive 9 discussions, and the fuel availability. So these three 10 projects are unique in the sense that they are in a 11 setting that wasn't contemplated necessarily in a 12 general set of comments to EPA. 13 Q I guess, as you just noted, there's been a 14 lot of discussion in this hearing on the EPA deferral 15 and the tailoring rule and the NSPS, the New Source 16 Performance Standards. Judge Jagdmann and Mr. Norwood 17 engaged in several questions about that. Ms. Scheller 18 was asked a number of questions from Mr. Rambo about 19 that. 20 Do you recall those discussions? 21 A Yes, I do, and I agree with Ms. Scheller's 22 responses with regard to Clean Air Act requirements and 23 timing. 24 Q A number of those questions focused on this
24	A Yes.	24 Q A number of those questions focused on this
25	Q And Ms. Faggart is chief environmental	25 notion of being grandfathered or otherwise exempted if
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6 7 8 9	officer of Dominion. Do you report to her?  A Yes.  Q And. Mr. Bisha, the questions, when the letter was put on the overhead, focused on a couple of sentences about the competitiveness of biomass, the economics of developing Greenfield biomass-generating facilities, that biomass is the only economically favorable under a narrow range of conditions.  Do you have anything further to add about why that letter was written?  A I would like to characterize the basis and genesis for that letter that was written in September	1 the EPA were ultimately to determine more stringent 2 carbon regulations were to apply to biomass generation. 3 What is your view on this grandfathering 4 issue? 5 A The grandfathering has to do with the 6 permitting right now. We do expect to receive permits 7 from the Virginia DEQ this year. If those permits are 8 issued and EPA ultimately takes an action either way, 9 but if they take an action to say that biomass 10 emissions are not carbon neutral, these permits would 11 stand, they would not go away. So in that sense, they 12 would be grandfathered and a permit a future permit

9

- 1 seen both national and international efforts that thus
- 2 far have considered biomass emissions at carbon
- 3 neutral. So I think from that standpoint when we see
- 4 future regulatory or legislative type mandates
- 5 regarding carbon emissions, I expect that they will
- 6 treat carbon -- biomass as carbon neutral.
- 7 MR. DAHL: Thank you.
- 8 No further questions. The witness is
- 9 available for cross-examination.
- 10 COMMISSIONER CHRISTIE: Okay, Mr. Rambo.
- 11 MR. RAMBO: Thank you, Your Honor.
- 12 REBUTTAL CROSS-EXAMINATION
- 13 BY MR. RAMBO:
- 14 Q Good afternoon, Mr. Bisha.
- 15 A Thank you. Good afternoon.
- 16 Q I've got some questions.
- 17 Going on -- sort of to continue the line of
- 18 questions I had for Ms. Scheller, I think, or at least
- 19 intended to primarily just be clarifying questions, so
- 20 I might lead you into a nuance or two.
- To be clear, at the end of the deferral, this
- 22 deferral rule sets up a three-year period of EPA
- 23 studying this. In the meantime, biomass is exempted
- 24 from the tailoring rule CO2 regulation.
- 25 So at the end of that deferral period, one

- 1 at the end of the deferral period, there is an
- 2 in-between option between those two extremes: That EPA
- 3 might decide, Well, we got it right on the carbon
- 4 neutrality, but just for the residue-type biomass, but
- 5 not whole trees.
- 6 That's another potential outcome at the end
- 7 of this deferral period; is that correct?
  - A I suppose they could bifurcate it.
  - Q Right. So it's in between. Okay.
- And, again, just to clarify, the deferral
- 11 rule, like all these rules, has been challenged. Are
- 12 you aware of the status of that challenge, where it is
- 13 in the legal proceeding?
- 14 A I understand there may be some briefing
- 15 coming up this year, probably some court date set later
- 16 this year. It's not on the front burner, as I know.
- 17 Q Okay. Now, if that challenge is successful
- 18 so that the deferral rule is vacated, would you agree
- 19 with me that there is at least an argument that any
- 20 permit -- any air permit that's issued in reliance on
- 21 the deferral rule, let's say -- so you get a permit,
- 22 you get your air permit while the deferral rule is
- 23 still in effect, but then after you get that permit the
- 24 deferral rule is vacated, that permit is no longer
- 25 good, you're going to have to go back and go back
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- I option is that EPA will decide, well, it got it wrong,
- 2 and it will decide that all biomass -- you know,
- 3 biomass should be put back in -- essentially into the
- 4 tailoring rule framework.
- The other extreme is that they will say, No,
- 6 we actually had it right, this deferral should
- 7 essentially be extended, we're going to make it
- 8 permanent.
- 9 Do you agree those are sort of the two
- 10 extremes of what may happen?
- 11 A I think those are the outcomes we're waiting
- 12 for.
- 13 Q Well, I want to get at something, and
- 14 building on something that's in your testimony on
- 15 page -- your rebuttal testimony, the bottom of page 4,
- 16 top of page 5.
- 17 And Mr. Kingsley got into this and maybe
- 18 another company witness might have mentioned this too,
- 19 is that there is a -- in a lot of the debate about the
- 20 carbon neutrality, it gets down into there are some
- 21 nuances between the types of biomass and there are
- 22 different shades of arguments about, say, residues.
- 23 For instance, the carbon neutrality of burning residues
- 24 versus the carbon neutrality of burning whole trees.
- 25 So would you agree with me that there is --

- 1 through the permitting process without the benefit of
- 2 the deferral rule.
- 3 Would you agree with that? Or would you
- 4 agree that there's that argument that --
- 5 A Well, I think it would -- I think it would
- 6 depend upon what the final order in the rule said.
- 7 Q Okay. Fair enough.
  - A Fair enough.
- 9 Q And even if the deferral rule is vacated so
- 10 it's sent back to EPA, there is that same -- as we
- 11 discussed the possibilities that would happen if the
- 12 deferral rule is allowed to, say, go its natural life,
- 13 the three-year period, at the end of that you've got
- 14 the extreme, EPA says, We're going to accept all
- 15 biomass; the other extreme will say, We're going to
- 16 exempt no biomass; or the in between where they're
- 17 going to -- the bifurcation, I think as you called it.
  - There's that same extremes and the
- 19 bifurcation possibility in the event that the deferral
- 20 rule is vacated and sent back to EPA for it to issue a
- 21 new proposal. Would you agree with that?
- 22 A I would think there's an argument that you
- 23 still would maintain your permit regardless of that 24 outcome.
  - Q Yeah, I'm not asking about the impact on the

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Ι,	permit, but just as far as what EPA has to do. It	١,	Q The tailoring rule? You were not referring
	would be facing those same possibilities are going	2	- · · · · · · · · · · · · · · · · · · ·
	to be before EPA if the deferral rule is vacated as if	3	A I was not. They have not come out yet.
•	at the end of this deferral period if if the	4	Q You were not referring to legislation?
1	deferral stands, EPA is going to have these same	5	A No, sir.
	possibilities of deciding what to do with biomass,	6	MR. REISINGER: Okay. Thank you, sir.
1 7	either all of it's in, all of it's out, or something in	7	COMMISSIONER CHRISTIE: All right.
8	between.	8	
1 9	A EPA would still have to deal with that, yes.	9	MR. STOGDALE: Staff has no questions, Your
10	Q Yeah, okay.	1	Honor.
111	MR. RAMBO: That's all I have, Your Honor.	11	COMMISSIONER CHRISTIE: Any redirect?
12	COMMISSIONER CHRISTIE: All right.	12	REBUTTAL REDIRECT EXAMINATION
13	Mr. Monacell.	13	BY MR. DAHL:
14	MR. MONACELL: No questions.	14	Q Just quickly back to that EPA letter. You
15	COMMISSIONER CHRISTIE: Mr. Reisinger.	15	said it applied to new and existing generating
16	MR. REISINGER: Yes, Your Honor.		facilities. Was that generally or was that looking at
17	REBUTTAL CROSS-EXAMINATION		these three specific conversions?
18	BY MR. REISINGER:	18	A That was generally and that was before these
19	Q Good afternoon, Mr. Bisha.	19	three projects were being considered.
20	I want to just very quickly clarify a couple	20	Q And these three projects have some
21	of points that came up on your surrebuttal.	21	distinctions in your view?
22	Mr. Dahl asked you about this letter which	22	A Yes yes, they do. They have the existing
23	was a letter from the company to EPA after the initial	23	
24	set of permitting rules came out; is that correct?	24	
25	A Yes. Is this the yes, the September 13th	25	they have the other benefits to them, as I mentioned
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	letter, 2010.	1	
2	Q Yes, sir.	2	MR. DAHL: Thank you. No further questions.
3	And I believe I believe you were	3	
4	clarifying this statement that the economics of biomass	4	COMMISSIONER CHRISTIE: All right. Thank you,
	power generation under are marginal under current	1	Mr. Bisha. You may be excused.
ı	conditions. You were clarifying that statement to say	6	MR. McNAMEE: The company calls Greg Morgan.
1	that that applies to Greenfield power plants; is that	1	WHEREUPON.
	correct? Or did I did I mishear you?	8	GREGORY J. MORGAN,
9	A It would apply to new Greenfield or to	1,2	, 51
1	certain existing facilities.	10	•
111	Q Do you agree with this statement here that: "Regulation of CO2 emissions from biomass facilities	11	REBUTTAL DIRECT EXAMINATION BY MR. McNAMEE:
12	would make them significantly less attractive than	13	
	other generating options resulting in a decrease in	14	
15		15	A Yes.
16	Do you agree with that statement?	16	Q Do you have with you today a document
1	A That was that was our position at the time	17	
117	71 That was that was our position at the time	Ι.	entitled "The Rebuttal Testimony of Gregory J. Morgan,"
17	of this letter	I IX	
18	of this letter.  O And you also talked about this idea of	18	
18 19	Q And you also talked about this idea of	19	and it's filed as a public version only?
18 19 20	Q And you also talked about this idea of biomass facilities being grandfathered under the EPA	19 20	and it's filed as a public version only?  A I do.
18 19 20 21	Q And you also talked about this idea of biomass facilities being grandfathered under the EPA rules. Do you remember that discussion?	19 20 21	and it's filed as a public version only?  A I do.  Q And was this document prepared by you and
18 19 20 21 22	Q And you also talked about this idea of biomass facilities being grandfathered under the EPA rules. Do you remember that discussion?  A Yes.	19 20 21 22	and it's filed as a public version only?  A I do.  Q And was this document prepared by you and under your direction?
18 19 20 21 22 23	Q And you also talked about this idea of biomass facilities being grandfathered under the EPA rules. Do you remember that discussion?  A Yes.  Q You were referring to the permitting rules	19 20 21 22 23	and it's filed as a public version only?  A I do. Q And was this document prepared by you and under your direction? A Yes.
18 19 20 21 22	Q And you also talked about this idea of biomass facilities being grandfathered under the EPA rules. Do you remember that discussion?  A Yes.  Q You were referring to the permitting rules	19 20 21 22 23 24	and it's filed as a public version only?  A I do.  Q And was this document prepared by you and under your direction?

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1,	A I do not.		1	market.	ŀ
2	Q And if I were to ask you the same questions		2	So you fast-forward to 2010 and '11, and what	•
$\frac{1}{3}$	again, would your answers be the same?		3	you see is kind of a disequilibrium. Supply has	•
4	A Yes, they would.		4	outpaced demand for renewables, you know, roughly	
5	MR. McNAMEE: Your Honor, at the appropriate		5	depending on how you look at it, roughly a 2-to-1	
6			6	level. So what you end up with is the prices really	_
7			7	have chased the floor, they've really fallen to very	
8	COMMISSIONER CHRISTIE: All right.		8	low levels because of the imbalance between supply and	
9	Exhibit 61, Morgan rebuttal.		9	demand. So that's why we're seeing we may have seen	
10	Any objection to admission? Hearing none, it		10	10 to \$15 not that long ago, but they've really fallen	
11	is admitted.	1		to the levels they're at now.	
12	(Exhibit No. 61 was marked for		12	Q Is it my understanding that Dominion actually	
13	identification and received in		13		
14	evidence.)		14	biomass Tier 1 RECs?	
15	MR. McNAMEE: Thank you, Your Honor.		15	A Yes, we've done some trades in 2009 at those	
16	•		16	levels.	
17	Q Mr. Morgan, were you present in the courtroom		17	Q All right. Do you also agree, having heard	
18	when Consumer Counsel questioned company witness		18	Ms. Scheller with her statement that she believes the	
19	Scheller about the ICF REC prices and suggested that		19	REC prices are likely to go up again as demand for	
20	perhaps the forecast was too high?		20	electricity, starts to rise and REC requirements under	
21	A Yes, I I was here.		21	the RPS standards start to rise?	
22	Q And, in particular, they pointed to the fact	1	22	A Yes. I think Ms. Scheller talked at length,	
23	that in 2009 and 2010 that the REC prices paid by the		23	and I need to be careful because I know the exhibit was	
24	company for Tier 1 RECs were between one and two		24	ES, but about the embedded demand that's out there that	
25	dollars?		25	is due to rise, it's based on existing law. So it's my	
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١.	A. I ballians along one of a serious serious live I live			to the time and the second of the second of	
	A I believe those were the prices received by			view looking at the supply/demand fundamentals that we	
1	the company for the sale of RECs, but, yes, I was here to hear that.			are at a floor, and there's only one place for prices to go from here, and that's up.	
3	Q All right. And the company has suggested		<i>3</i>	If you look at the demand growth that's	
;	that the REC prices are going to be significantly	ŀ		poised to occur. it's geometric, or it's due to double	
	higher than that, correct?	ļ		and then double again when you look at it. So it's not	
7	A We have, yes.		6 7	a very bold statement to say that prices are going to	
8	Q Has the company actually obtained or sold any		8	rise, and in fact, they may rise very precipitously.	
9	of their Tier 1 RECs for a higher amount than one to			They may even rise earlier than otherwise you may	
	two dollars?		10	than you may think just looking at supply and demand	
111	A Yes, we have. I think I think Mr. Kelly		11	due to some of the banking provisions.	
12	alluded to it. While the RECs are still somewhat of an	l	12	A REC generated in 2012 can either be sold in	
13	immature product, generally these RPS programs were	ĺ	13	2012 or it can be banked and sold two years later, so	
1	borne in the 2006 to 2008 era. In my view, they've		14	there is two-year banking. So some of the controls of	
15	already experienced a business cycle of sorts. There	Ì	15	the REC today can say, Am I willing to sell today at	
16	was a relative balance, I guess, between supply and		16		
17	demand when many of these programs started, and the		17	tomorrow? And they can make a decision in setting the	
18	prices began in the in the 10 to \$20 range. New		18	price.	
19	Jersey maybe even a little bit higher.	1	19	So I think these markets could move and I	
20	What happened were two things happened, I		20	think they could move earlier than the charts may	
21	guess. We've already talking about the load forecast		21	indicate.	
22	fell, so the requirements actually fell due to the		22	As we sit here today, the 2012 REC prices	
23	recession of 2008. But sort of at the same time on the		23	have inched upward. They're now trading around \$2 a	
24	heels of the big surge in gas and power prices, a lot		24	megawatt hour, so it's higher than what we got last	
	of renovable cumply mostly wind, was brought to the			year so we've already started to see what I think is a	

25 of renewable supply, mostly wind, was brought to the

25 year so we've already started to see what I think is a

_		1		
	764			766
1,	continuing rebound.	١,	sell the Tier 1 RECs and still count it towards your	ŀ
			well, first of all, if you can, then obviously that part	1
	The witness is available for		is easy, you can still continue to sell the Tier 1 RECs	•
'		4	and count it towards the RPS. So if it makes sense to	Ċ
ا !		5	sell Tier I and buy back Tier 2, net the difference,	Ì
Ι.	6 question, Mr. Morgan, on the question about in which	6	that's great.	
I .	you address in your rebuttal and you also addressed it	7	But if the legal answer is, you can't both	
	3 in the direct, and Ms. Leopold has addressed it, but	8	sell the Tier 1 RECs and count these plants towards your	
	that is the interplay with this and the RPS.	9	RPS, and you say, Well, we will just do whatever you	
110	• •		know, we'll see what the market is for RECs, but the	
	going to buy back Tier 2 RECs to meet the RPS, and then	11		
	you're going to credit the difference. I understand	12	question then is, you now have you would have three	
	3 that. And you don't need this for the current level of		biomass plants which, absent the REC issue, you clearly	
	the RPS.	14	could count towards the RPS. But if you've sold the	
15	When the RPS kicks up in, what, 2017, 2018, is	15	Tier 1 RECs and if the legal answer is, Well, now you	
16	5 it the plan to use this towards the RPS?	16	can't count it towards the RPS, you might meaning	
17	THE WITNESS: I think that	17	Dominion want to pursue another renewable option that	
18	COMMISSIONER CHRISTIE: These plants.	18	might be very expensive.	
19		19	, ,	
	depend on the economics of what we can purchase and what		answer sort of answers that, because if you can't count	
	we can sell. So, so long as there continues to be the		it, then the question becomes how long are you going	
	2 spread that we see now and we predict between Tier I and		to and whether there should assuming it's	
	3 Tier 2 purchases, we're going to do what's economically		approved, should there be some condition that you have	
25	optimal. So my take on it would be and what our case is		to continue to net out the RECs or whether it's going to be better for ratepayers that you don't continue to net	
2-	so my take on it would be and what our case is	23	be better for ratepayers that you don't continue to het	
	765			767
١.	built upon is we're going to continue to we'll count	ļ ,	out the RECs, because then you're going to do something	
١.	ti in our forward plan. That is, it's a renewable		that's even more expensive.	
	resource. When we file our forward-looking plan, we	3		
			THE WITNESS' Well you know. I guess at	
	· · · · · · · · · · · · · · · · · · ·	-	THE WITNESS: Well, you know, I guess at first I guess you suggested it calls for a legal	
	will say, This is one of the renewable resources we	4	first I guess you suggested it calls for a legal conclusion, but, you know, I guess from	
	· · · · · · · · · · · · · · · · · · ·	4	first I guess you suggested it calls for a legal	
1 6	will say. This is one of the renewable resources we anticipate using in our forward plan. But as we arrive	4 5 6	first I guess you suggested it calls for a legal conclusion, but, you know, I guess from	
7	will say. This is one of the renewable resources we anticipate using in our forward plan. But as we arrive into each year, we're going to probably sell those	4 5 6 7	first I guess you suggested it calls for a legal conclusion, but, you know, I guess from COMMISSIONER CHRISTIE: Well, let me	
8	will say. This is one of the renewable resources we anticipate using in our forward plan. But as we arrive into each year, we're going to probably sell those RECs our plan will be to sell those RECs at the higher valued Tier 1 markets and purchase whatever Tier 2 RECs at a lower price. So we will continue to do	4 5 6 7 8 9	first I guess you suggested it calls for a legal conclusion, but, you know, I guess from COMMISSIONER CHRISTIE: Well, let me assuming that the legal answer is and I'm not asking you for a legal opinion assuming the legal answer is if you sell the Tier I RECs, you cannot count this	
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25 someone that we sell it to counts it in Pennsylvania.

25 either way. If you -- if the legal answer is you cannot

25

Q Okay. And the requirement is -- and the

25

Q Now, in the company's cost effectiveness

#### Capital Reporting Company

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772 1 theory is that if you sell higher valued RECs in the 1 in -- you're not saying for the life of these plants 2 market, you're making ratepayers of utilities somewhere 2 we're always going to be selling Tier 1s and buying 3 else in PJM pay for our renewable facility, correct? 3 back -- and we'll just buy back whatever Tier 2s it 4 takes, so once we start selling Tier 1s, we can never A The sale of RECs would be to the other PJM 5 states, Pennsylvania, Maryland, Jersey. So, yes, those 5 use this to meet the RPS. 6 load-serving entities would be buying the credits from 6 THE WITNESS: I suppose the only way that 7 would -- if we were to enter into a long-term contract 7 our Virginia facility. 8 to sell a long strip of Tier 1 RECs, which I don't think Q And our intent is to take that money and credit it to ratepayers; is that correct? we've contemplated how we're going to do this yet, but I 10 10 suppose if we did, then that might change the calculus. 11 11 But if we go a year at a time, we could do the calculus Q And then pursuant to the statute, we're 12 required to go out there and buy replacement RECs, 12 you described and say, What makes sense here 13 which are usually Tier 2, which are, what, about 13 economically? 14 14 60 cents apiece? COMMISSIONER CHRISTIE: Okay. Any more 15 A No, they're less than that. Last year they 15 redirect after I asked that last question? 16 MR. McNAMEE: No. 16 were -- they're currently in the 20-cent range. 17 COMMISSIONER CHRISTIE: The one thing is, 17 O Okay. So even if you have \$2 RECs today that 18 isn't it the company's current intention that it's going 18 you can sell on the market, and get those proceeds and 19 give them to customers, the requirement of the statute 19 to evaluate the value of the Tier 1 RECs each year and 20 and the intent of the company is then to go out and 20 not enter into a long-term contract? 21 spend 20 cents to buy the replacement, so customers net 21 THE WITNESS: Yes, that's my expectation. 22 COMMISSIONER CHRISTIE: Just out of curiosity, 22 a benefit of a dollar eighty? 23 A That's right. 23 is anybody entering into long-term contracts to buy 24 24 RECs? MR. McNAMEE: Okay. Thank you. 25 25 COMMISSIONER CHRISTIE: But if in the future THE WITNESS: Yes. We've -- you know, for our 773 775 1 when the RPS kicks up, hypothetically, if the REC market 1 Virginia RPS, we've been selling them in short durations 2 doesn't go as you anticipate it going, so that the 2 and trying to balance selling the Tier 1s with buying 3 spread between Tier 1 RECs and Tier 2 RECs is not that 3 the Tier 2s. But where there are certain, I guess, 4 specific carveouts that perhaps can only be met with new 4 remunerative, you could use this towards the higher RPS. 5 and you could ask us and say, You know, sorry the REC 5 facilities -- we, for instance, in our North Carolina 6 thing didn't work out, but now we can propose to use 6 RECs program, we're entering into long-term contracts 7 this towards the RPS and not have to buy something else, 7 for certain carveout facilities that are hard to find

8 correct?

11

THE WITNESS: We could, and that way it's a 10 hedge against our RPS obligations.

COMMISSIONER CHRISTIE: Okay.

12 THE WITNESS: But the economics would have to 13 dictate that, as you suggested.

14 COMMISSIONER CHRISTIE: So the analysis --15 well, one of the analyses would be, Here is what we're

16 making on RECs -- on the REC arbitrage -- that's what it

- 17 is, it's an arbitrage -- here is what it would cost us
- 18 to spend on a new facility to meet the RPS, but we could
- 19 do away with the REC arbitrage and just apply these
- 20 plants towards the RPS at no net additional cost.
- 21 THE WITNESS: We could do the calculations you
- 22 just described. I'm sure we will. Every indication is
- 23 that Tier 1 -- from what we can see today, Tier 1 prices
- 24 will always exceed Tier 2. 25
  - COMMISSIONER CHRISTIE: But you're not locking

- 8 and must be built. So the only way to get those
- 9 facilities -- and these are for whole tree and swine
- 10 waste renewable energy certificates. The only way to
- 11 get those is to get a developer in up front that will
- 12 develop a facility, and we're signing long-term
- 13 contracts because that's the only way to get the
- 14 facility.

15 So that is occurring. We're paying very big

16 prices for those because we're paying basically -- the

- 17 economics that Ms. Scheller described is exactly how it
- 18 works, which is there is a subsidy required, which is
- 19 the difference between the market value of the energy
- 20 and capacity you get and what it costs to build such a
- 21 facility. That's what we're in fact paying in long-term
- 22 contracts there. So, yes, we are, at least that I've
- 23 seen in our North Carolina program.
- COMMISSIONER CHRISTIE: Okay. You may be 24
- 25 excused. Thank you, Mr. Morgan.

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	7	76	7	778
1 2 3 4 5 6 7	MR. DAHL: Company wishes to call Mr. Mark C. Stevens to the stand. WHEREUPON, MARK STEVENS, called as a witness, and having previously been duly sworn, was examined and testified as follows: REBUTTAL DIRECT EXAMINATION		which will be accrued up to the proposed effective date of Rider B, April 1, 2012.  Do you have any response to that discussion?  A Yes, I do. Mr. Monacell and staff witness Pate discussed the appropriate amortization period for AFUDC, which will be accrued up to the proposed reflective date of Rider B, which is April 1, 2012. The	
8	BY MR. DAHL:  Q Are you the same Mark Stevens that testified		3 company is in agreement with the staff on this issue.  9 It is appropriate to use an AFUDC	
10 11		10		
12 13 14	Q Do you have with you today a document consisting of 12 typed pages of questions and answers, one exhibit consisting of one schedule, collectively	13 14	recovery on a timely and current basis from customers	:
16 17	entitled "The Rebuttal Testimony of Mark C. Stevens"?  A Yes, I do.  Q And I believe there's only a public version	16 17	of the costs, in this instance of one or more major unit modifications. Those costs include financing costs such as AFUDC. The suggested amortization period	
19 20	of that; is that correct?  A That's correct.  Q Was that document prepared by you or under	19	of 25 years for the total of \$1 million, representing ten months' worth of AFUDC, would not be timely and current. MR. DAHL: Thank you.	
21 22 23 24 25	your direction?  A Yes, it was.  Q And filed with the Commission on December 22,  2011?  A Yes.	22 22 24 25	No further questions. He is available for cross-examination. COMMISSIONER CHRISTIE: Mr. Rambo.	
	7	77	7	779
2 3	Q Do you have any corrections or additions to your rebuttal testimony?  A I do not.	- 1	COMMISSIONER JAGDMANN: Mr. Monacell.  MR. MONACELL: Yes, Your Honor.  REBUTTAL CROSS-EXAMINATION	
4 5	Q If you were asked the same questions appearing there, would you provide the same answers		BY MR. MONACELL: Q On the subject of the AFUDC, won't all the	
6 7 8	today?  A Yes, I would.  Q Do you wish to sponsor it as your rebuttal	1	6 construction costs be incurred within the 16- to 7 19-month construction period? 8 A That is correct.	
1	testimony?	10	Q Okay. And	
	MR. DAHL: I will ask the document be marked, public version only, and admitted at the appropriate time.	11 12 13	2 months you're referring to is actually the remaining	
14 15 16	COMMISSIONER CHRISTIE: Okay. This will be exhibit mark it Exhibit 62, Stevens rebuttal, public. (Exhibit No. 62 was marked for	14 15 16	A Beginning with the effective date of the	
17 18 19	identification.)	13 18 19	Q So how many months before that six months or 3 so?	
20 21 22	•	20 22 22	officially started. We started accruing AFUDC on June 1, but the project started months prior to that.	
23 24	exchange with counsel for the Virginia Committee, Mr. Monacell, where they were discussing the	23 24	A No. No, not much more.  Q Okay. So we're talking about construction	
1.25	appropriate amortization period for the AFUDC, and	123	5 costs incurred over a one-and-a-half to two-and-a-half	

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	780		78.
	year period, correct?	١,	WHEREUPON,
2	A Correct.	2	KURT W. SWANSON,
3	Q Okay. And those construction costs include	1 -	called as a witness, and having previously been duly
4	the hard costs of any equipment, right?		sworn, was examined and testified as follows:
5	A They would.	5	REBUTTAL DIRECT EXAMINATION
6	Q And they would include soft costs of any	6	BY MR. REID:
_	engineering?	7	Q Are you the slightly neglected Kurt W.
8		′8	Swanson
9	A They would.	9	
	Q And they would include labor and whatever of	10	A Yes, I am.
10	doing this conversion, correct?  A Correct.	110	Q who previously testified in this proceeding?
		12	•
12	Q And you referred to the statutory phrase		A Yes, I am.
13	"timely," and you used that as an argument why the	13	Q And, Mr. Swanson, do you have with you a
_		14	document consisting of five typed pages of questions
15	doesn't that same word "timely" in the statute also		and answers entitled "Rebuttal Testimony of Kurt W.
16	refer to all of the other costs of the conversion?		Swanson" filed in public version only in this case?
17	A Well, just to be clear, the subsection A6	17	A Yes.
	highlights a list of itemized costs	18	Q And was that document prepared by you or
19	Q Right.	19	under your supervision?
20	A that cannot be recovered during the	20	A Yes.
21	construction period. The only two the only two	21	Q Was it filed with the Commission on
	items that can be recovered during the construction	22	December 22nd of 2011 in this case?
23	period is the AFUDC and financing costs on CWIP. Those	23	A Yes.
24		24	Q And do you have any corrections or additions
25	And I may say this is completely consistent	23	to it?
	781		78.
1	with what we've done and what the staff has agreed with	1	A No.
	in the Bear Garden, the VCHEC and the Warren County	2	Q If you were asked the same questions
		1 2	appearing in that document here today, would you
3	CASE.	4	provide substantially the same answers?
5	MR. MONACELL: I have nothing further.	5	A I would.
_	COMMISSIONER CHRISTIE: Mr. Reisinger.	1	Q And do you wish to sponsor it as your
6 7	MR. REISINGER: No questions, Your Honor.	6	
	COMMISSIONER CHRISTIE: Ms. Clowers, are you	1	rebuttal testimony in this proceeding?
8	doing it?	8	A Yes, I would.
9	MS. CLOWERS: Yes.	9	MR. REID: Your Honor, if we could have
10	REBUTTAL CROSS-EXAMINATION	10	•
11	BY MS. CLOWERS:	111	admitted to the record subject to cross-examination.
12	Q Just following up on the AFUDC conversation,	12	COMMISSIONER CHRISTIE: All right, Swanson
13	a shorter amortization period, could that reduce the	13	
14	carrying costs paid by customers as compared to a	14	actually moved to admit it. He may have and I missed
15	longer amortization period?	15	it. Any objection to admitting either 62 or 63?
16	A That is correct.	16	Hearing none, they're both admitted.
17	MS. CLOWERS: No further questions.	17	(Exhibit No. 62 was received into
18	COMMISSIONER CHRISTIE: Redirect?	18	evidence.)
19	MR. DAHL: No redirect, Your Honor.	19	(Exhibit No. 63 was marked for
20	COMMISSIONER CHRISTIE: Thank you,	20	identification and received in
21	Mr. Stevens. You are excused.	21	evidence.)
22	MR. McNAMEE: The company calls Diane	1	BY MR. REID:
23	Leopold oh, I'm sorry. I want to get out of here as	23	Q Mr. Swanson, when you appeared before the
24	fast as everybody else.	24	Commission earlier in this proceeding, there was a
25	We're calling Kurt Swanson.	25	request by the Attorney General to present some

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١,	customer rate comparisons.	<b>]</b> ,	COMMISSIONER CHRISTIE: Mr. Monacell.	ŀ
2	Have you prepared such data?	2		*
3	A Yes, I have.	3	REBUTTAL CROSS-EXAMINATION	L
4	Q And are you prepared to relay that	4		ć
5	information to the Commission at this time?	5	Q Good afternoon, Mr. Swanson.	į
6	A Yes.	6		
7	Q Would you please do that.	7		
8	A Yes.	8	A Okay.	
وا	Mr. Browder had asked about where we stood	وا	_	
10	rate-wise or a thousand-kilowatt-hour bill-wise as of	10		
111	today. I believe I answered that it was about \$112,	111	screen?	
12	and in fact it is \$112.31.	12	A Yes.	
13	And I believe he then asked where would we be	13	Q Okay. And I would like to ask you about how	
	at the point in which these riders, Rider B as well as	14		
	the other riders, as I understood it, that would	15		
	include Rider W, Rider R and Rider S, where would we be	16		
117		117	Isn't it true that these words basically	
18	of 2012.	18	provide two requirements for a customer to be exempted;	
19	So, walking through that, again today we're	19	•	
20		20	large industrial rate classes of the participating	
21	final order in which the Commission has directed the	21	utilities?	
22	company to issue \$78.3 million in rate credits to our	22	Isn't that the first requirement?	
23	customers, that should begin on or around February 1st	23	A That is what it says, yes.	
24	of 2012. And that's going to continue for six months.	24	Q And then isn't there a second requirement	
25	Those credits will be amortized over a six-month	25	that the customers are served at primary or	
	785			787
1	period.	1	transmission voltage?	
2	So, on or around February 1st. 2012, this	2	A Yes.	
3	thousand-kilowatt bill customer will receive a credit	3	Q Now, isn't it true that you are recommending	
4	on its bill of \$2.84. That means the net effect after	4	<i>y</i> , , , , , , , , , , , , , , , , , , ,	
5	that credit is the bill drops from \$112.31 to \$109.47.	5		
6	That's about a 2.5 percent reduction.	6	ž .	
7	And then effective April 1st, with the four	7	requirement, and that they be served a primary or	
8	riders I just mentioned a moment ago, and considering	8	e , <b>,</b> e e	
9	the fact that these revenue requirements are now	9	•	
10	reflecting the return on equity coming out of the 2011	10	•	
111	biennial order, the sum of the four riders, Rider R, S,	111	A What we're requiring is that it be an	
12	•	12	,	
13		13	a large industrial rate class. So, therefore, my	
14	April 1, 2011 (sic).	14		
15	So the net effect, today we're at \$112.31.	15	interpretation of the language in the statute that the	
16	•	16	•	
1	reduction of \$1.49 versus today.	17	. ,	Ì
18	Q Just so the record is clear, I believe just a	18		
19		19	Q Right.	
20	you mean to say April 1, 2012?	20	<del>-</del>	
21	A I did, yes.	21		}
22	MR. REID: Thank you, sir. The witness is	22	•	
23	available for cross-examination.	23 24		
24 25	COMMISSIONER CHRISTIE: Mr. Rambo. MR. RAMBO: No questions. Your Honor.	25		
	IVIK. KAIVIDO. INO QUESUONS, TOUT HONOT.	1 43	Q So the largest rate classes that meet that	

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١,	dividing line of being 500 KW or above are your GS3 and	Ι,	you're aware that there's a group of customers there	4
1 2	dividing line of being 500 KW or above are your GS3 and GS4; is that correct?	'	that are either exempt or can opt out of energy	A
3	A They are both considered large general	3		9
4	service, GS3 and GS4, customer classes, yes, but they	4		7
5	are not industrial.	5		]
6	Q Well, they include industrial.	6		1
7	A They include industrial but they include	1 7	And for our A5 exemption or opt-out customers with	
8	commercial as well, and, therefore, we don't interpret	8	respect to DSM energy efficiency programs, they include	-
9	the phrase "large industrial rate classes" to include	وا		
10	commercial customers.	10		ł
111	Q Okay. I understand that.	11	the General Assembly has put the phrase "large	l
12	And the dividing line between GS3 and GS4 is		industrial rate class" in this particular section of	
13	based on voltage to be on GS3 would be secondary		the code.	ŀ
14		14	Q Right.	ļ
15	primary or transmission, correct?	15	But with your interpretation of the statutory	
16	A That's correct.	16	exemption, couldn't we strike "classes" and just have	
17	Q But GS4 is all either at primary or	17	the definition be large large customers that are	
18	transmission, correct?	18	as defined by the utility, which you define as above	ŀ
19	A Correct.	19	500 KW served at primary or transmission?	ŀ
20	Q Okay. And your special contracts rate class	20	A The fact that the word "industrial" is in	1
21	is also above 500 KW and on primary transmission, is it		there, in our interpretation, means that there was an	
	not?		intent to distinguish certain customers in the general	
23	A It is.	1	service category between industrial and commercial.	j
24	Q And then you also have Schedule 10	24	· / / /	
25	Schedule 10 class that requires that the customers be	25	codes?	
<b>†</b>				
1	78			
	76	9		791
1	above 500 KW. correct?	1	A Yes. That's a standard way of defining or	791
1 2	above 500 KW. correct?  A Schedule 10 is a rate schedule, and it is	1	distinguishing types of customers. Essentially	791
3	above 500 KW. correct?  A Schedule 10 is a rate schedule, and it is part of the GS well, it is actually potentially part	1	distinguishing types of customers. Essentially manufacturing customers, those customers that have	791
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	T OE-2011-000/3 VII ghila Electric at		
	7	792	794
1,	starting with the number 11, but the codes actually go		l industrial by your company?
	into much more smaller units of 11 for various types of		2 A That's correct.
	agriculture and forestry and fishing and hunting, and		Q And would utilities be included as
	then there is mining and utilities and construction and		4 industrial?
			A You need to look at the specific operation
	transportation and warehousing, information. It goes	- 1 (	6 there to ensure as you say, there's beyond this
7		.	7 initial code, there are, let's say, finer details or a
8	A Well	;	8 finer distinguishing of a particular process or trade.
9	Q I think there are about 20 major categories.		9 So I think you would need to look at those specific
10	Is there just one of those that you would say is	- 10	0 more detailed operations to understand exactly where
		1	
12	MR. REID: Your Honor, I guess I'm a	1:	2 system.
13		13	
	witness about codes under SIC, which he is familiar	14	4 stations?
	with, or codes under the NAICS, which he said he is not	1:	A On the surface that sounds like it would be,
	familiar with, nor is he familiar with this document.	10	6 yes.
17		1	
18	Q Well, I will first ask you about SIC codes.	13	
19	How many categories of SIC codes are there?	19	A Are you referring to a particular item in
20	A I don't have that document with me. There	20	0 here?
21	are several.	2	l Q No, I'm just asking you in general, how are
22	Q Okay. Well, is there one category of SIC	2:	2 you going to determine what is industrial and what is
23	codes that is called industrial?	2:	3 commercial?
24	A No, I think there are several.	24	4 COMMISSIONER CHRISTIE: Mr. Monacell, you've
25	Q And which ones are they?	2:	5 asked him numerous questions, and we're not going to go
		793	795
1	A I don't have that information handy.		I down every conceivable type of industry
1 2	<ul><li>A I don't have that information handy.</li><li>Q So you are asking the Commission to approve</li></ul>		1 down every conceivable type of industry 2 MR. MONACELL: No.
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	796		798.
1,	this: First of all, this issue is one of the legal	١,	interprets the word "industrial" in the General
•	issues that obviously needs to be briefed because you	ł .	Assembly's phrase "industrial rate classes" is the same
3		3	as Webster's number 2 definition, "characterized by
4	MR. MONACELL: Right.	4	· · · · · · · · · · · · · · · · · · ·
5	COMMISSIONER CHRISTIE: and it's not a new	5	Is that how you're using is that how
6		6	
7	·	7	
8		8	* *
9		و ا	A I would not say that's how we're doing it.
10	Your last question was a little bit different	10	·
lii	from just one example after another, so I'm going to let	11	
12			Commission feels it's appropriate, we would be happy to
1	he wants. But your point has been made and we need to	13	
1	wrap it up.	14	
15		15	
16		16	
17		17	-
	your company, do they not?	18	And if that's an issue beyond that
19		19	•
20		20	
21	company might have a pulp mill, and you would classify	1	between "commercial" and "industrial" in the statute.
	that as industrial, I assume. Is that correct?		It's our attempt to try to have that distinguishment
23	A Yes, that account would be industrial.		captured in this possible exemption for incremental
24	Q Okay. And what if they have a fabricate a		costs.
	much smaller fabricating plant, would that be where	25	Q Did the General Assembly intend to exclude
	797		799
1	they're not making paper but they're fabricating it	1	data centers from the
2		2	COMMISSIONER CHRISTIE: Mr. Monacell, I told
3	A Is this a separate meter?	3	
4	Q Oh. yes.	4	MR. MONACELL: Okay. Yes. Your Honor.
5	A A separate account?	5	COMMISSIONER CHRISTIE: I'm not going to tell
6	Q Totally different location.	6	, ,
7	A Well, we're considering on an account-by-	7	MR. MONACELL: Okay. I have nothing further.
8	account basis.	8	COMMISSIONER CHRISTIE: Mr. Reisinger?
9	Q Right, Right,	9	MR. REISINGER: Yes, Your Honor. Mr. Browder
10	A So the extent we're going to look at where	10   11	has a few questions.  REBUTTAL CROSS-EXAMINATION
111	that meter is serving the electrical requirements of that account. Now, we use the word "customer" and	12	
12	"account" somewhat interchangeably, but actually we're	13	Q Mr. Swanson, just very briefly. I had a
13	referring to the metered account.	14	
14	Q So it doesn't make any difference who owns	15	
1	it. You're saying it depends on the characteristics of	16	With respect to the four riders that are
17		17	
18	A That delivery point.	18	
19	MR. MONACELL: I would like to hand out	19	A B as in biomass.
20		20	Q Okay. So that would be the it's the three
21	the Webster's New Collegiate Dictionary. First is the	21	units proposed in this case.
22	cover page, and the next is the definition of	22	A Yes.
23	"industrial."	23	Q Assuming that all three get approved.
24		24	A That's correct.
	DT WIK, MONACELE.	1 44	A That's correct.
25		25	Q So my question is, what about Rider C?

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	800		802	2
Ι,	There's a pending there's a current Rider C1, C2,	1	MR. MONACELL: I'm fine either way.	#
	and there's a pending application for some additional	2	COMMISSIONER CHRISTIE: Yeah, I mean	1
	DSM programs. How do they where do they stand with	-	everybody	ľ
4	respect to subsequent changes?	3	can cite whatever dictionary you want when you get to	di
5	A I don't have those included because I believe	4	legislative interpretation.	
6	those were scheduled to become effective on or after	5	All right. So Exhibit 64 then is the NAICS	ı
7	May, so I was looking only at an April date. I thought	6	classification system. And they are admitted without	1
8	that was	7	, , , , , , , , , , , , , , , , , , ,	ł
9	Q So they are on a different rate year?	8	Okay. Thank you, Mr. Swanson.	1
10	A Yes.	9	And final witness.	
11	Q Okay. And then the credit, you mentioned the	10	MR. McNAMEE: The company calls Diane Leopold.	ı
12	2.84 credit, that would expire at the end of July; is	11	•	
13		12	DIANE LEOPOLD,	1
14	A I believe so, yes, six months after the		called as a witness, and having previously been duly sworn, was examined and testified as follows:	1
15	February implementation.	15	REBUTTAL DIRECT EXAMINATION	1
16	Q Thank you, Mr. Swanson.		BY MR. McNAMEE:	
17	MR. BROWDER: That's all I have. MS. POUILLE: No questions.	17	Q Are you the same Diane Leopold that testified	1
19	COMMISSIONER CHRISTIE: Ms. Clowers?	18		I
20	MS. CLOWERS: No questions.	19	A Yes.	-
21	COMMISSIONER CHRISTIE: Any redirect?	20	Q And do you have a document with you	1
22	MR. REID: No redirect, Your Honor.	21	consisting of 15 typed pages, questions and answers,	1
23	COMMISSIONER CHRISTIE: Mr. Monacell, you	22	entitled "The Rebuttal Testimony of Diane Leopold" in	1
24	never you asked actually, the North American	23	both a public and extraordinarily sensitive version?	1
25	the industry classification, did you want that marked	24	A Yes.	
		25	Q And was this document prepared by you or	╛
`   	901	1		- 1
- 1	801	1	208	3
1.		١,		3
1 2	and admitted?	1 2	under your direction?	3
1 2 3		1 2 3		3
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	and admitted?  MR. MONACELL: I would like them marked and admitted, both that and the  COMMISSIONER CHRISTIE: And the SIC this is not the SIC, right? This is the NAICS.  MR. MONACELL: Yes.  COMMISSIONER CHRISTIE: All right. We're going to mark the North American Industry Classification System, NAICS, will be Exhibit 64.  Any objection to admitting that?  Hearing none, that's admitted.  (Exhibit No. 64 was marked for identification and received in evidence.)  COMMISSIONER CHRISTIE: Did you what was the other document?  MR. MONACELL: The other was the dictionary.  The Webster's dictionary, three pages.  COMMISSIONER CHRISTIE: All right. We will mark  MR. REISINGER: Your Honor, I'm not going to overly fuss with it, but I don't think it's necessary to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	under your direction?  A Yes. Q And this is the same document filed on December 22nd. 2011? A Yes. Q Do you have any additions or corrections to it? A I do not. Q And if I were to ask you the same questions again, would your answers be the same? A Yes. MR. McNAMEE: Your Honor, at the appropriate time I would like this marked as an exhibit, both public and extraordinarily sensitive, and then admitted into evidence. COMMISSIONER CHRISTIE: Okay. There will be two Leopolds well, 65 and 65-ES, Leopold rebuttal. (Exhibit Nos. 65 and 65-ES was marked for identification and were received.) MR. McNAMEE: Thank you, Your Honor. BY MR. McNAMEE: Q Ms. Leopold, were you present in the	3

_	TOE-2011-000/5 Virginia Electric a	iiu r	ower Company - vol. III 01-12-2012
	8	804	806
11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q Do you have any comments about that?  A Yes, very briefly.  The methodology that was used in this case was very standard for us. It was using standard tools, the Strategist program that we have brought forward in other generation cases and the IRP before the Commission. It used standard forecasts from ICF that we typical methodology that we've been using for some time.  In addition, all of the other assumptions, the fuel, the EPC costs, the O&M, our availability, significant due diligence on those assumptions were completed, and we feel very good about them.  In addition, we tried to pick the key value drivers for the case to run sensitivities on. Based on the discussion over the last few days, I think we probably picked the right sensitivities to look at to enable a thorough evaluation of the value proposition put forward here.  Q Thank you.  And do you have any thoughts on the comments made by Consumer Counsel and staff that the company	10 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22	be able to obtain these PTCs. Mitigating these risks are to the benefit of the customers, and we do not think that mitigating risks themselves should be the basis of determining the development risk of the facility.  COMMISSIONER CHRISTIE: Let me ask you a question while you're on that topic, and I don't think this is extraordinarily sensitive, although it does reference the contract.  In the Wise County case, you all had a fixed-price contract, and in the Bear Garden case, you had a fixed-price construction contract. And to my knowledge, certainly Bear Garden, which is complete,
25	should receive an enhanced ROE under 56-585.1A6 for	805	5 came in within the budget, within the fixed price.  807
6 7 8 9 10 11 12 13 14 15	only five years instead of 15 because they do not perceive the facilities to be critical or that there is limited risk?  A I would like to address that briefly. It is the the range of 5 to 15 years is supposed to be based on the criticality of the need and the risk of development of the facilities.  With respect to the criticality, certainly any generic 150 megawatts would not be considered critical. The need to meet our native load obligations by developing and maintaining a diverse portfolio of assets is critical. It is critical that we continue to try to meet that need by looking to lower costs for our customers.  I think part of the criticality is trying to come up with unique solutions to do that to meet the		THE WITNESS: Correct. COMMISSIONER CHRISTIE: Haven't heard otherwise, right? THE WITNESS: Correct. COMMISSIONER CHRISTIE: Is this fixed-price contract I'm talking about the construction now is that similar to Bear Garden in terms of the assurance that it is going to be a fixed-price contract? THE WITNESS: About the same percentage. What I will say is probably a little bit more of it is fixed early on in this contract than Bear Garden. Bear Garden had a few adjustments in there that ended up using a lot of our contingency. So while we did end up on budget, we did use a lot of contingency early on in Bear Garden because there were certain escalators of a much tighter construction market at the time, so labor and materials
17 18 19 20 21 22 23 24	energy needs. And in this particular case, I do believe that the need is being met with a very unique solution, low cost conversion of underutilized assets, providing a base load need that we have.  We are a short base load and this serves that. It adds to our fuel diversity. It is a large	18 19 20 21 22 22 24	7 had a few fixed price timing to lock them in. This one 8 is much more locked early on. So the percentage fixed 9 ended up the same but it was a little bit earlier. 0 COMMISSIONER CHRISTIE: All right. 1 BY MR. McNAMEE: 2 Q And were you do you agree with

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	000		·	
1	agree with that?	1	goals? Isn't that correct?	j
2	A I disagree that we should wait. I truly	2		•
3	believe that now is the right time to do this and that	3		ł
4	our risks will increase if we wait. PTCs are available	4		(
	now under existing law, much more certain than what the	5	A I would have to check on that. I will take	•
ı	future brings. We do have very attractive EPC and	6	your word for that.	
	equipment contracts. We have attractive fuel contracts	7	<b>Q</b>	
	with suppliers that know the markets out there. We	1	component for these three facilities that the total	
	have air permits that we have filed for, and if we get,	9	-4	
10	would expire, and we would have to start over again and		year?	
11	potentially lose this grandfathering of the tailoring	11	MR. McNAMEE: Your Honor, this wasn't a	
	rule.	1 .	subject of her direct or of her rebuttal, so I'm not	
13	So we do recognize this is a unique project.	13	•	
	In many ways, when we first looked at it, almost too	14	COMMISSIONER CHRISTIE: Well, I think it's	
1	good to be true. We had been looking at biomass for a		relevant, but in an overall sense, but the thing	
	while in 2007 when we looked at Virginia City. We were	I	about it, Mr. Monacell, what part of her rebuttal is	
	looking at the wood throughout Virginia. In addition,	17	, ,	
1	the RPS bill that came about in 2007 continued to have	18	•	
	us look at biomass through Virginia.	19	, i e ,	
20	We've had wood studies where we've looked at	20	. , . ,	
21	•	21	S	
	about within the IRP. And at that time when we started	22	•	
	looking at the wood baskets in the different regions,	23	5 1	
	we started looking at cofiring or potentially	24		
23	conversions of facilities as a better use of that wood	123	her the thing I mean I'm surprised that someone	
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	basket as a lower cost option than a Greenfield option.	1 2	didn't bring this up in the direct because the 50 basis	311
2	basket as a lower cost option than a Greenfield option.  And through time with a study that culminated in 2010,	1	didn't bring this up in the direct because the 50 basis point, you know, is obviously there. It goes to the	311
2 3	basket as a lower cost option than a Greenfield option.  And through time with a study that culminated in 2010, we did find that these particular facilities through	1 2	didn't bring this up in the direct because the 50 basis point, you know, is obviously there. It goes to the	311
2 3 4	basket as a lower cost option than a Greenfield option.  And through time with a study that culminated in 2010,	1 2 3	didn't bring this up in the direct because the 50 basis point, you know, is obviously there. It goes to the RPS.  But I'm going to let you ask her one question.	311
2 3 4 5	basket as a lower cost option than a Greenfield option.  And through time with a study that culminated in 2010, we did find that these particular facilities through our fuel studies and through our engineering analyses	1 2 3 4 5	didn't bring this up in the direct because the 50 basis point, you know, is obviously there. It goes to the RPS.  But I'm going to let you ask her one question.	311
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1	getting at that at all.	1	A That's correct. I talked about that a little
2	COMMISSIONER CHRISTIE: I mean that would have	2	bit in the standard methodology. It's the same process
3	been an argument in your case in chief about why you're		that we've used in other generation cases we've brought
4	opposed to it, but you're not.	4	forward.
5	Well, she can answer the question. Let her do	5	Q Along those lines, I do have a couple of
6	it.	6	questions just to clarify the company's assumptions
7	BY MR. MONACELL:	7	here.
8	Q Is it your testimony that the company has not	8	Were you in the courtroom when I asked
9	considered the opportunity to earn the 50-basis-point	9	Ms. Scheller from ICF some questions about her
10	bonus and ROE for meeting the RPS goal as one of the	10	forecasts for CO2 prices?
11	factors it considered in deciding to go forward with	11	A I've been here, yes.
12	asking for approval of this project?	12	Q And without referencing any information that
13	A It is not in the economic analysis, correct.	13	is sensitive, do you remember that some of ICF's prices
14	Q That's not the question I asked. I asked	14	differed from the prices that Ms. Scheller testified to
15	A That's what I thought it was.	15	in another state, in Delaware?
16	Q No.	16	A I remember the exhibit that you showed, yes.
17	The question not whether it's in your	17	Q And Ms. Scheller testified when I asked her
18	economic analysis. The question is, are you telling me	18	about that discrepancy, she said that one of the
19	that Virginia Power's managers, the decision makers,	19	reasons that the CO2 price used in Delaware was
20	did not consider that the General Assembly has given	20	different than the price that the company used was that
21	them the opportunity to earn \$39 million more per year	21	that Delaware utility used its own judgment on CO2
22	now and in the future in deciding to propose the	22	prices.
23	conversion of these products? You didn't consider	23	MR. McNAMEE: Your Honor, I don't think
24	that?	24	Ms. Scheller said used their own judgment. I think she
25	A I would feel confident we would propose this	25	said that they provided her with the information and she
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1,	project even if we did not have that RPS. It stands in	1	ran it through her model.
2	its own right.	2	COMMISSIONER CHRISTIE: Well, she can say what
3	MR. MONACELL: Okay. I have nothing further.	3	
4	COMMISSIONER CHRISTIE: Mr. Reisinger.	4	else.
5	MR. REISINGER: Yes, Your Honor.	5	MR. McNAMEE: But it was Ms. Scheller that he
6	REBUTTAL CROSS-EXAMINATION	6	was characterizing.
7	BY MR. REISINGER:	7	COMMISSIONER CHRISTIE: Oh, I'm sorry. Well,
8	Q Ms. Leopold, very briefly, I would like to	8	how does that relate to her rebuttal, Mr. Reisinger?
9		9	MR. REISINGER: She stated on page 1 of her
10	your rebuttal testimony, lines 14 and 15.	10	rebuttal that she is here to rebut concerns about
11	You say on line 14 that you will rebut	11	assumptions, and I just do have a couple of questions
12	concerns about the assumptions the company used to	12	about how the company has used and relied on ICF's
13	determine the cost effectiveness of the biomass	13	assumptions.
14	conversions.	14	COMMISSIONER CHRISTIE: 1 will let you answer
15	Do you see that language?	15	
16	A Yes. I do.	16	
17	Q Flipping over to page 3 of your testimony,	17	know she is sort of the cleanup witness.
	lines 21 through 23, you say that the company utilized	18	But if you know. If you can't remember
19	ICF International for its market assumptions and price	19	THE WITNESS: Yeah, the only thing I can say
20	forecasts; is that correct?	20	•
21	A That's correct.	21	Mr. McNamee said was that they were the Delaware
22	Q And over on page 4, lines 17 through 18, you	22	company was using the ICF tool.
23	say that the company relies on ICF International for	23	
1	its market forecasts and REC forecasts; is that	24	Q But they may have
125	correct?	125	A That integrated analysis and Legitainly

25 correct?

25

A That integrated analysis, and I certainly

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Ι.	11 .1	Ι.	1.1.	, i
	would not have purchased the output of that as ICF's	1	1 that correct?	N
	forecast. ICF has their standard suite of assumptions	- 1 -	2 A Yes.	4
	and tools that they use that we rely upon in our		Q So you understand that the Commission could	H
4	standard cases.	1	approve all of these conversions or it could reject all	9
5	Q Okay. Okay. Did you understand Ms. Scheller		5 these conversions or approve and reject some	4
I _	to say that the Delaware utility had made some	- 1 '	6 combination of the three?	}
7			7 A That would be for the Commission to decide,	ļ
	was a discrepancy between the ICF forecast used in your	- 1	B yes.	
1.9			MR. REISINGER: Thank you, Ms. Leopold.	
10	A I apologize, because I understood it more to		•	ŀ
111	be they used their own assumptions and used the ICF			l
12	•	12		
13	Q Sure. That's fair enough.	13	· , , , , , , , , , , , , , , , , , , ,	ŀ
14	With respect to the REC price forecasts used	14		ł
	in this case that were provided by ICF, did Dominion			
	simply accept those forecasts or did you do any of your	16	, , , , , , , , , , , , , , , , , , , ,	
- 1	own analysis?		7 rebuttal testimony.	1
18	A Well, we what we actually do is we	18	,	
1	understand the markets that we deal in. I think	19	•	i
	company witness Morgan talked about some of the type of		the biomass conversions may not meet the standard under	
	REC arbitrage that we do. We actually produced our own		Virginia Code Section 56-585.1A6 for a rate adjustment	
	similar graphic to show supply and demand of the states		2 clause. Do you agree?"	ļ
	within PJM so that we got a feeling. We did not try to	23	• •	
	develop price forecasts from that, that we don't have		your testimony, the very bottom paragraph. And you	1
25	that type of integrated planning model, but we at least	2:	5 note that the biomass conversions looking at	
1				
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1	8 looked to make sure that we did feel comfortable that		l line 18: "They will provide substantial customer	819
1 2		1 2	2 benefits compared to operation on coal and that they	819
1 2 3	looked to make sure that we did feel comfortable that	1 2	·	819
3 4	looked to make sure that we did feel comfortable that it was sound.  Q Did the analysis that the company conducted that corresponded to ICF's analysis with	3	<ul> <li>benefits compared to operation on coal and that they</li> <li>will support economic development."</li> <li>And then beginning on line 23, you note that:</li> </ul>	819
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	820		82
1	everybody can address that from a legal standpoint.	1	I think for Dominion that would be the first time we've
2		2	done it in Dominion. But we need that that's another
3	does the State Corporation Commission have the legal	3	issue.
4	authority to impose conditions, forestry type conditions	4	то по то
5	., , ,		of my head. You are free to address other issues that
6	· • · · · · · · · · · · · · · · · · · ·	6	• • • • • • • • • • • • • • • • • • • •
	wording it, but that's the issue. And I see it,	7	
1 -	Mr. Rambo, as an issue comparable to if we had the	8	§
9	authority to regulate something like the labor and	9	
	safety practices of a coal mine that's selling coal to a	10	,
111	coal plant. We clearly regulate the coal plant. Can we impose conditions on the way that coal was mined? If	11	know what issues you think we need to decide in this
	it's an oil-burning plant, do we regulate how the oil is	12	11
14		114	
15		15	Now, let's talk about dates.
16	So that's the issue. You may see it a little	16	
	different way, but that's the general issue.	17	
18	Does that generally state what you're	18	MR. DUDLEY: Did not agree.
19	because you're asking us to impose conditions,	19	COMMISSIONER CHRISTIE: Did not agree?
20		20	E
21	gathered and harvested. And those conditions would	21	<u>•</u>
22		22	COMMISSIONER JAGDMANN: So what is the
23	have to.	23	deadline for when this case has to be
24	MR. RAMBO: Well, yeah, they would we are	24	MR. DUDLEY: March. End of March.
25	not asking well, eventually, yes. I mean whatever is	25	COMMISSIONER JAGDMANN: All right. So let me
		<u> </u>	
	821		82:
	imposed on Dominion would be something that they would	1 2	ask the court reporter, when will you have your
2	imposed on Dominion would be something that they would have been imposed however they get it, whether they		ask the court reporter, when will you have your transcript, do you think?
2	imposed on Dominion would be something that they would have been imposed however they get it, whether they do it in-house or	1 2 3 4	ask the court reporter, when will you have your transcript, do you think?  THE REPORTER: We're planning on ten days. Or
2 3 4	imposed on Dominion would be something that they would have been imposed however they get it, whether they do it in-house or  COMMISSIONER CHRISTIE: Well, they're buyers	3	ask the court reporter, when will you have your transcript, do you think?  THE REPORTER: We're planning on ten days. Or a little bit less than that. Ten business days.
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2 3 4 5 6	imposed on Dominion would be something that they would have been imposed however they get it, whether they do it in-house or  COMMISSIONER CHRISTIE: Well, they're buyers in this case, right? They're buyers of a commodity.	3 4 5	ask the court reporter, when will you have your transcript, do you think?  THE REPORTER: We're planning on ten days. Or a little bit less than that. Ten business days.  COMMISSIONER CHRISTIE: All right. Let's see here. As we speak, today we're on the 12th of January.
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l i	COMMISSIONER CHRISTIE: Let's go off the	١,	going to procedural propriety of some issue regarding	(
2	record and take the earphones off.	2		(
3	(A discussion was held off the record.)	3		ŗ
4	COMMISSIONER CHRISTIE: So if we're talking	4	I have not been able to consult or contact	(
5	January 24, what are you looking for, a couple of weeks,	5	Dr. Abt, and I would like to do that because I don't	
6	two, three weeks? What?	6	depending on what Dr. Abt I would like to consult	
7	MR. MONACELL: Do we have to buy the sensitive	7	with him to know if there is some motion that I would	
8	part?	8	like to bring; and if so, what. But I also don't	
9	COMMISSIONER CHRISTIE: How do we handle		want to waive any right, so I just would ask I	
1	this?	10	just want I don't want to waive any right, but I	
	I mean the whole purpose of this new system is to make	11	would like to consult with Dr. Abt and then bring any	
111	them free to groups that couldn't afford it.		motion if it's proper.	
12	I see Mr. Browder waving his hand there and	13	COMMISSIONER CHRISTIE: Well, what have you	
13	Mr. Rambo.  Have we talked about how the	14	got in mind? Like an after filed exhibit or something?	
15		15	MR. RAMBO: Well, yeah, potentially something	
16	(Commissioner Christie and Clerk confer.)	1	where he is allowed a motion for him to file some	
17	THE CLERK: They have to get a copy I think	17	additional testimony on this responding to	
	we are going to charge.	18	Mr. Kingsley's points on the issue.  COMMISSIONER CHRISTIE: The problem well,	
19	COMMISSIONER CHRISTIE: All right. That is	20	you can make any motion you want. Whether we accept it	
	TBD, Mr. Monacell. This is the first time we changed	21	is a different thing. In effect, filing a you want	
	this whole system around so groups like Mr. Rambo's and		to make what amounts to a surrebuttal by filing	
22	the Attorney General could afford to get the transcript,	23	MR. RAMBO: Yeah, it would be. Our contention	
23	and so we're still working through the that is an	24	might be this is something that Mr. Kingsley should have	
	issue of first impression, as they say.	25	been in his rebuttal, and so it would be in the nature	
25	MS. VALAIKA: Your Honor, I spoke to Mr. Peck			
1				$\neg$
	825	1	8:	27
				27
1	about it yesterday, and he said he was going to try to		of a surrebuttal on this issue because he hasn't had a	27
1 2	about it yesterday, and he said he was going to try to track it down and resolve it.	2	of a surrebuttal on this issue because he hasn't had a chance to hear Mr. Kingsley on this.	27
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	therefore, it was appropriate for Mr. Kingsley to	ı	goes to the ultimate issue.
	respond here.	2	MR. RAMBO: Okay.
3	And as you are indicating, there is a process	3	COMMISSIONER CHRISTIE: But the argument about the standard transfer in
4	here for a reason. It's for judicial efficiency, it's		whether he was I mean, again, if you thought he went
	for fairness to the parties. And to allow this to go on		outside the scope of the proper scope, then you could
	and to now have yet additional testimony where then we		have objected then, and then that would have been the
	would probably feel obligated to respond to that, who		time to do it, or you could have crossed him on it and
_	knows, Forest Watch it's just it's got to end.	8	
9	That's the reason we have these rules.	9	, , , , , , , , , , , , , , , , , , , ,
0	COMMISSIONER CHRISTIE: Yeah, I mean it could	1	stand.
	conceivably go on forever, I mean, you know, tit for	11	MR. RAMBO: Thank you, Your Honor.
	tat.	12	COMMISSIONER CHRISTIE: Yeah, okay.
3	MR. RAMBO: Well, I	13	Anything else?
4	COMMISSIONER CHRISTIE: You certainly in your	14	MR. McNAMEE: Your Honor, and just one
	brief can say you don't think the evidence supports	15	housekeeping matter. I asked permission from the
	Dominion's position. I mean that is typically what	16	,
	briefs address.	17	exhibit, which was 54-ES, in the corrected versions. I
3	MR. RAMBO: Well, I think Dr. Abt this	18	have provided those to the other counsel, and I just
•	••	19	need to provide one to the bailiff for you and the other
)	•	20	
ı	the rebuttal, then Dr. Abt would have addressed it	21	COMMISSIONER CHRISTIE: Okay. And I take it
2	specifically. And he was not because he was unaware	22	there is no objection to the allegedly improved
3	we were not aware until potentially we were not aware	23	handwriting?
4	until today, and so	24	MR. McNAMEE: It's the same math.
5	COMMISSIONER CHRISTIE: Well, the properly	25	COMMISSIONER CHRISTIE: Okay. With that, we
	829		8:
1	you should have objected if you thought that	1	are adjourned.
	Mr. Kingsley, and you had his rebuttal, so you must be	2	(Whereupon, at 3:55 p.m. the proceedings
	referring to something that he said in answer to a	3	were concluded.)
	question from counsel which was in the nature of his	4	
5	surrebuttal to is that what you're saying, that he	5	
	said something from the stand? But that had to be	6	
	within the scope of something that was said by your	7	
3	witness, so you would have objected then to say, you	8	
9	know, that was improper for him to be addressing it now	9	
	from the stand.	10	
)	But I don't think that's when you take your	11	
	shot at him is when they're on the stand, you know,	12	
?		13	
3	unless you think they defrauded the Court or something,	1	
1	in which case you can certainly allege that.	14	
5	MR. RAMBO: No.		
5	COMMISSIONER CHRISTIE: But if it's just a	16	
7	disagreement with what he said, the time to do that is	17	
3	to do it when he is there, when he is on the stand.	18	
)		19	
)		20	
	MR. RAMBO: I do well, I won't belabor it.	21	
2		22	
3	COMMISSIONER CHRISTIE: I mean you can	23	
4	certainly argue that the weight of his evidence should	24	
5	be, you know, given lesser weight. I mean that just	25	

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1 2	CERTIFICATE OF NOTARY PUBLIC  I, LESLIE A. TODD, the officer before whom the	j
3	foregoing proceedings were taken, do hereby certify that	• •
4	the proceedings were taken down by me in stenotypy and	
	thereafter reduced to typewriting under my direction; that	
	said transcript is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any	1
	of the parties to the action in which these proceedings	
	· · · · · · · · · · · · · · · · · · ·	
10		
11	parties hereto, nor financially or otherwise interested	
13	in the outcome of this action.	
14	Dated this 23rd day of January 2012.	
15		
16		
1,,	LESLIE A. TODD	
17	Notary Public in and for the Commonwealth of Virginia	
18	Commonwealth of Virginia	<u> </u>
19		
	My commission expires:	
20	September 30, 2013 Notary Registration No.: 311305	
21	Notary Registration No., 311303	
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832 1 CERTIFICATE OF NOTARY PUBLIC -2 I, LESLIE A. TODD, the officer before whom the 3 foregoing proceedings were taken, do hereby certify that 4 the proceedings were taken down by me in stenotypy and thereafter reduced to typewriting under my direction; that 5. 6 said transcript is a true record of the proceedings; that 7 I am neither counsel for, related to, nor employed by any of the parties to the action in which these proceedings 8 9 were taken; and, further, that I am not a relative or 10 employee of any counsel or attorney employed by the 11 parties hereto, nor financially or otherwise interested 12 in the outcome of this action. 13 14 Dated this 23rd day of January 2012. 15 16 17 N∕tary Public in and for the Commonwealth of Virginia 18 19 My commission expires: 20 September 30, 2013 Notary Registration No.: 311305 21 22 23 24 25