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DATE: Wednesday, September 25, 2019

TIME: 9:30 a.m. - 11:33 a.m.

DOCKET NO.: E-22, Sub 562 and E-22, Sub 566

BEFORE: Chair Charlotte A. Mitchell, Presiding

Commissioner Tonia D. Brown-Blair

Commissioner Lyons Gray

Commissioner Daniel G. Clodfelter

IN THE MATTER OF:

Application of Virginia Electric and Power Company

d/b/a Dominion Energy North Carolina,

for Adjustment of Rates and Charges Applicable to

Electric Service in North Carolina

and

Petition of Virginia Electric and Power Company,

d/b/a Dominion Energy North Carolina,

for an Accounting Order to Defer Certain Capital and

Operating Costs Associated with Greenville County

Combined Cycle Addition

VOLUME: 7



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P R O C E E D I N G S

CHAIR MITCHELL: Good morning. Let's go back on the record, please.

Mr. Drooz, you may continue.

PAUL M. MCLEOD,
having previously been duly sworn, was examined
and continued testifying as follows:

CONTINUED CROSS EXAMINATION BY MR. DROOZ:

Q. Mr. McLeod, just to cover the change in numbers between the direct and rebuttal testimony for clarity in the record, originally, I believe you had \$390.4 million for CCR expenditures from July 2016 through June 2019 systemwide.

Does that sound correct?

A. Yes, subject to check.

Q. Yeah. I think that's page 31 of your direct testimony.

A. Okay.

Q. And of that, I believe you testified \$19.9 million as the North Carolina retail allocation plus another \$2.8 million for financing during the deferral period; is that correct?

A. Right.

Q. And you've agreed on the financing, that

1 should be compounded annually rather than monthly?

2 A. Yes. That was the recommendation of Public
3 Staff, and we accepted that in our rebuttal testimony.

4 Q. And as I look at your rebuttal, particularly
5 page 3, note 1, I believe you adjusted the CCR
6 expenditure numbers to \$376.7 million systemwide; is
7 that correct?

8 A. Yes, that's correct. And that's consistent
9 with what was presented in our supplemental update in
10 August where we updated to include actuals through the
11 update period.

12 Q. And the North Carolina retail allocation is
13 \$19.2 million plus financing costs, bringing that up to
14 \$21.9 million.

15 Does that sound correct?

16 A. Yes. And I think -- I think, just because of
17 the timing when the rebuttal was filed versus the
18 settlement, that that number in the rebuttal hasn't
19 been updated to reflect that compounding -- or the
20 monthly compounding.

21 Q. Okay. That was a fairly small adjustment?

22 A. Right. If you want to see what the numbers
23 are, we essentially accepted the total that was
24 calculated by Public Staff. So that would be contained

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1 in witness -- Public Staff Witness Maness' testimony.

2 Q. Okay. Thank you. That will help us get our
3 proposed -- prospective proposed orders accurate.

4 MR. DROOZ: So, at this point, I would
5 like to hand out what we would ask to be marked for
6 identification as the Public Staff Cross
7 Examination of Paul McLeod Exhibit Number 1.

8 CHAIR MITCHELL: The exhibit shall be so
9 marked.

10 (Public Staff Cross Examination of
11 Paul McLeod Exhibit Number 1 was marked
12 for identification.)

13 Q. Do you recognize this as the Public
14 Staff's -- one of the Public Staff's data requests
15 served on the Company, and this is the Company's
16 response to Question Number 2 of Set 95?

17 A. Yes, I do.

18 Q. Okay. And the Public Staff had asked for a
19 listing of all CCR items, the cost items, including the
20 nature and purpose of the expenditure, the month and
21 year expenditure, the dollar amount of the expenditure.

22 Is that what was in the request?

23 A. Right.

24 Q. Okay. And the Company's response,

1 essentially, says the majority of CCR expenditures from
2 January 2015 through the present were for services and
3 labor and would be charged to O&M expense in the
4 absence of GAAP/FERC ARO accounting requirements; is
5 that correct?

6 A. Yeah. That's what the response says. And I
7 would note too that it does say, at the beginning of
8 the response, that, you know, the Public Staff asks us
9 to assume that ARO accounting guidance doesn't exist.
10 Of course, our accountants and research departments
11 focus their efforts on, you know, guidance that does
12 exist. But I think, for purposes of responding to this
13 request, that's what we stated with regard to that O&M.

14 Q. Right. And while the FERC/GAAP accounting
15 does, in fact, exist and is a requirement for the
16 Company, you eliminate the effects that through pro
17 forma adjustments for North Carolina ratemaking
18 purposes; is that correct?

19 A. Right. And the costs that you were speaking
20 to this morning have all been deferred and explicitly
21 excluded from our rates -- our current rates.

22 Q. And that's an order from the North Carolina
23 Commission?

24 A. Yes.

1 MR. DROOZ: All right. At this point, I
2 would like to hand out what I would ask to be
3 marked as Public Staff Cross Examination Exhibit of
4 Paul McLeod Exhibit Number 2.

5 Q. Mr. McLeod, this exhibit is a follow-up data
6 request from the Public Staff following up on the
7 Exhibit Number 1 that we had just talked about; is that
8 correct?

9 A. Yes.

10 Q. Yeah. And the Public Staff was seeking a
11 little more detail on what was meant by the word
12 "majority"?

13 A. Right.

14 Q. Okay. And as I look at the Company's
15 response, it indicates that, of the \$390.4 million
16 estimated CCR expenditures during the deferral period,
17 there were \$101.4 million related to operating coal
18 facilities. That would be Chesterfield, Clover, and
19 Mount Storm; is that correct?

20 A. Right.

21 Q. And the remainder -- or the roughly
22 \$209 million remainder was related to non-operational
23 coal units; is that correct?

24 A. Right.

1 Q. Okay. And then looking at the sentence that
2 begins at the very bottom of that first page, it says,
3 "Of the total spend, \$390.4 million, this represents
4 less than 2 percent."

5 When you say "this," you are talking about
6 the amount of the costs that were capitalizable; is
7 that correct?

8 A. Yeah, that's what it says.

9 Q. And it goes on to say, "Thus, the vast
10 majority of expenditures would not be capitalizable
11 under the hypothetical scenario that GAAP/FERC ARO
12 requirements do not exist."

13 A. Yeah. I think, under this hypothetical
14 situation that the staff was asking us to respond to,
15 that's right.

16 Q. Okay. And under that hypothetical situation,
17 given the numbers, it would be roughly 98 percent of
18 the cost in the deferral period would have been booked
19 as O&M, but for the GAAP/FERC accounting requirements?

20 A. Yeah. That's right. And I think it's
21 important to note that, again, these costs, for
22 North Carolina purposes, we were ordered to defer them.
23 So, you know, saying what he would do for financial
24 reporting is one thing, but, you know, what we actually

1 did was defer these costs in the interim, recognizing
2 that they are not in our current rates which, you know,
3 then creates that working capital allowance.

4 Q. And the costs that you deferred under
5 authority from this Commission, if they hadn't been
6 deferred, would they have been written off to expense
7 during the time they were incurred, or written off as a
8 loss?

9 A. You are saying, absent the Commission's order
10 on the 2016 case allowing us to defer the cost --

11 Q. Yes.

12 A. -- would they have been written off?

13 Q. Yes.

14 A. I assume so. But, again, we had specific
15 directives out of the 2016 case to defer these costs
16 that are explicitly not included in our rates.

17 Q. Right. And that directive to defer that
18 works to the benefit of the Company, because by
19 deferring those expenses, you can then apply for
20 recovery in a subsequent rate case.

21 That's the purpose of the deferral to a
22 regulatory asset, isn't it?

23 A. I think it provides benefits to both the
24 Company and the customers. And let me find what the

1 Commission said in its 2016 order.

2 (Witness peruses document.)

3 Let's see. I'm looking at page 61. As a
4 result, the required solution for CCR remediation
5 service, the public policy of encouraging and promoting
6 harmony between utilities, their uses, and the
7 environment. And then the Commission went on to say
8 that the deferral -- the Company will have the
9 opportunity to seek cost recovery for this unexpected
10 extraordinary cost expended in response to the CCR
11 final rule, which has required DNCP to store CCRs in a
12 manner different from that in which the CCRs were being
13 stored prior to 2015.

14 So it's a benefit to the Company, but -- but
15 also, by doing so, I think you are avoiding having
16 extraordinary costs just hitting your cost of service
17 just in one period, which, you know, by smoothing them
18 out, you know, reduces volatility in the rates, which,
19 you know, I think that's a benefit also for customers
20 as well.

21 Q. When you talk about having extraordinary
22 costs hit in one period, are you indicating that, to
23 the extent they were test-year costs, then you would
24 apply for recovery on the theory that they were

1 expected ongoing costs?

2 A. Right. If we simply just had that large
3 amount in our test year and made no adjustment for
4 them, all else equal, that would increase our cost of
5 service -- our test year cost of service. And if no
6 adjustment is made, then our revenue requirement would
7 be higher.

8 Q. It's also possible that, if you had gone that
9 route, there could have been an adjustment to not
10 include that test year cost in rates because it wasn't
11 representative of ongoing future costs, necessarily?

12 A. I guess that's a possibility, but that's not
13 what the Commission found in the 2016 case.

14 Q. Okay. Thank you.

15 MR. DR00Z: At this point, I would like
16 to pass out what we will ask to be marked for
17 identification as Public Staff Cross Examination of
18 Paul McLeod Exhibit Number 3.

19 Q. And I would like to focus your attention on
20 Question Number 2 in this data response.

21 A. Okay.

22 Q. And in Question 2, the Public Staff was
23 asking whether the CCR cost must be -- what the
24 Company's legal basis was for including those in rate

1 base, that is, in asking for return on the unamortized
2 balance; that was essentially the question, wasn't it?

3 A. Right.

4 Q. Okay. And the response -- and appreciating
5 that you are not an attorney, but the response provided
6 under your signature is that the Company contends the
7 inclusion of reasonably and prudently incurred
8 unamortized CCR costs should be included in rate base
9 per the North Carolina orders in the DEC and DEP rate
10 cases.

11 A. Right.

12 Q. So in terms of your cost recovery in this
13 case, are you relying on the analysis that the
14 Commission set out in the majority opinions in those
15 Duke Progress and Duke Carolina orders?

16 A. If you are asking for a legal interpretation,
17 I'm not a legal expert, but, you know, I did, obviously
18 in preparing for this case, review the Commission's
19 decisions in those case -- those cases which found that
20 it was appropriate to include that unamortized balance
21 in rate base.

22 Q. And what I understood from you indicating
23 yesterday seemed more confined to an accounting
24 perspective, which was that simply the Company has

1 spent these funds, they were investor-supplied capital,
2 that you have a financing cost until they are
3 recovered, and therefore, it would be reasonable for
4 you to earn a return until that balance is fully
5 amortized.

6 A. Yeah. That's right.

7 Q. Okay. Are you aware that there were several
8 other theories in the DEC and DEP orders?

9 A. Right.

10 Q. Are you relying on those other theories as
11 well?

12 A. Again, I'm not a legal expert. I can point
13 you to some quotes from those orders, if you would like
14 to know what my thought process is on it.

15 Q. Only if you are relying on those quotes for
16 your position in this case. If not, we don't need to
17 go into it.

18 MS. GRIGG: Yeah. I think that would be
19 more appropriate in our legal briefing. I think
20 he's answered this question from his accounting
21 perspective.

22 MR. DROOZ: That is satisfactory. Thank
23 you.

24 Q. And again, to the extent you know, in the

1 Duke Carolina's order, one of the theories was that ash
2 basin closure costs are a capitalized asset under the
3 GAAP/FERC ARO accounting, and therefore, they should be
4 included in rate base as property for North Carolina
5 ratemaking purposes.

6 Do you know if that's a theory the Company is
7 relying on in this case?

8 A. You mean the ash basins, themselves?

9 Q. The closure costs for those basins, the CCR
10 expenditures. And if you are not sure, that's okay.

11 A. Yeah. I will just say I'm not sure.

12 Q. Okay. So turning to page 7 of your rebuttal
13 testimony, you state down around lines 16 to 18 that
14 utilities in North Carolina authorize recovered costs
15 that are prudently and reasonably incurred for purposes
16 of providing utility service.

17 Is that always the case or are there
18 exceptions?

19 A. I think, barring a finding of imprudence, if
20 costs are reasonably and prudently incurred, I'm not
21 aware of a reason to exclude them from recovery.

22 Q. And when you say "costs," does that include
23 the financing or carrying costs, a return on those
24 prudently incurred costs?

1 A. Yes.

2 Q. Okay. Are you aware that, in the past, in
3 some situations, this Commission has denied a return on
4 the unamortized balance of prudent and reasonable cost?

5 A. I think, in this case, when I was responding
6 to the Public Staff's testimony, there were cases where
7 there were plant abandonments, I think back in the
8 '80s, where the Commission found that those plants had
9 never generated any power and, therefore, were not used
10 and useful, which was the basis for the Public Staff's
11 contention with regard to equitable sharing.

12 Q. Are you at all familiar with a case decided
13 by North Carolina Supreme Court in 1994 involving VEPCO
14 where the company had made some capacity payments to
15 PJM at an avoided cost rate ordered by the Virginia
16 Commission, and this Commission said that it was
17 prudent and reasonable to comply with the order in
18 Virginia, but North Carolina doesn't agree with that
19 avoided cost rate and, therefore, we are gonna disallow
20 a portion of that for North Carolina ratemaking
21 purposes? Have you --

22 A. I'm not familiar with that case.

23 Q. Okay. Okay. Again, I recognize you're not
24 an attorney. Are you aware that, under North Carolina

1 ratemaking law, the term "used and useful," that
2 requirement, applies only to property and not to
3 operating expenses?

4 A. I think our view, if you are speaking to the
5 deferral that we have in this case, the Commission
6 found that that deferral balance in the Duke cases was,
7 in fact, used and useful. You know -- and again, I'm
8 not an attorney, but I think that, if you have
9 operating expenses just built into your cost of service
10 and you are -- it's assumed that you are just
11 recovering them through current rates, then essentially
12 it's a flow-through, kind of like fuel, where there
13 would be no return on those. But with regard to the
14 CCR costs at issue here, you know, they are not
15 included in our rates. They are -- you know, we were
16 ordered to defer them for review in a future case.
17 Which that's what we are here today to discuss. And as
18 a result, you know, we have a significant unamortized
19 balance which represents investor funds for unexpected
20 and extraordinary expenses. And, in my view, that --
21 you know, that is what the Commission found to be used
22 and useful in this case.

23 Q. And you indicate the Company was ordered to
24 do that deferral.

1 That was an order the Company requested;
2 wasn't it, if you know?

3 A. You mean in the 2016 case.

4 Q. Yeah. Actually, both Sub 420 and Sub 522.

5 A. I know, in the 2016 case, it was subject to
6 the stipulation, but it also appeared in the Commission
7 order, and there was some discussion with regard to why
8 it was appropriate to defer those costs and exclude
9 them from current rates.

10 Q. Was that deferral in the Company's
11 application and direct testimony?

12 A. For future costs?

13 Q. The deferral request, yes, if you know.

14 A. I don't recall if costs beyond the update
15 period would have been addressed in our update case. I
16 think, when we filed our direct case in 2016, we would
17 have been addressing cost through the update period in
18 that case. Now we are addressing cost after the update
19 period. I don't recall if we would have addressed
20 those --

21 Q. Okay. That's good. Thank you.

22 A. -- in the direct case.

23 Q. Turning to page 9 of your rebuttal, you
24 describe the Public Staff's equitable sharing

1 recommendation as both standard lists and subjective.

2 I take it you're -- you think it's
3 inappropriate, in part, because there is not a
4 quantitative basis for explaining how to get to that
5 60/40 sharing; is that correct?

6 A. Yeah. I think there was discussion on that
7 yesterday at this hearing.

8 Q. Okay.

9 A. There was no specific finding of imprudency.

10 Q. Right. And you are aware, aren't you, that,
11 in the past, where a Commission orders for equitable
12 sharing for nuclear cancellation costs?

13 A. Can you repeat that?

14 Q. Are you aware that, in North Carolina, there
15 are past Commission orders for equitable sharing of
16 nuclear abandonment or cancellation costs?

17 A. Yes. And I think I address that in my
18 rebuttal testimony. As I stated before, those specific
19 assets were found to not be used and useful.

20 Q. Yes.

21 A. Right. Which that was kind of the basis for
22 the equitable sharing in those cases.

23 Q. I understand that, but I'm interested in the
24 standard list and subjective language.

1 Are you aware of any standard or objective
2 basis or quantification for how the equitable sharing
3 amortization period was determined in those nuclear
4 cancellation cost cases?

5 A. My understanding is that the Commission found
6 that those assets were not used and useful and arrived
7 at a similar determination to amortize them without a
8 return.

9 Q. And the Commission simply stated that was a
10 fair and reasonable result in those cases, didn't it?

11 A. I'll accept that, yes.

12 Q. Okay. They did not describe how they came
13 out with, say, 10 years instead of 8 or 12, did they?

14 A. I would have to review the orders.

15 Q. Okay. The same would be true for the
16 amortization with no return of environmental cleanup
17 costs for the manufactured gas plants, wouldn't it?
18 The Commission set an amortization period that resulted
19 in equitable sharing and did not state a standard; it
20 was a qualitative judgment, wasn't it?

21 A. I would -- again, I would have to review
22 those orders.

23 Q. What about the amortization period
24 recommended by parties for unprotected EDIT? That's

1 basically a qualitative judgment rather than some
2 quantitative outcome, isn't it?

3 A. Are you talking about our recommendation in
4 this case?

5 Q. Yes. And the Public Staff's recommendation.
6 And in other cases.

7 A. I think the Company's recommendation for
8 unprotected EDIT was tied to the remaining lives of the
9 underlying assets, which those -- the specific EDIT was
10 related to. So, in that regard, I don't think it was
11 just a qualitative judgment.

12 Q. What about for other companies? Did the
13 Commission accept that theory for amortization period?

14 A. I'm not aware of what the Commission has done
15 for other companies.

16 Q. How about deferred storm expenses? Is there
17 an objective mathematical basis for that amortization
18 period, or is it a qualitative judgment from the
19 Commission?

20 A. Can you tell me what case you are referring
21 to?

22 Q. The Duke cases.

23 A. Which one?

24 Q. The last rate case, you know, where they had

1 hurricane expenses that were amortized.

2 A. What was the -- I'm not familiar with what
3 the Commission order was.

4 Q. Okay. If you are not familiar, we will move
5 on.

6 When you describe the coal ash expenditures
7 during the deferral period as used and useful, do you
8 know if the Company is asserting that those
9 expenditures are legally entitled to a return?

10 A. I think, again, if you are asking for a legal
11 opinion on that, I'm not -- I'm not an attorney. I
12 think, in my perspective as a regulatory accountant,
13 when I'm preparing revenue requirement schedules and
14 rate base schedules, you know, I'm looking at how the
15 Commission has handled costs in previous cases and what
16 is -- what represents appropriate rate base, whether it
17 be plant service or working capital. And, you know, in
18 my view, those working capital -- the deferred CCR
19 balance is a source of -- or is investor-supplied
20 capital and, therefore, appropriate to include in rate
21 base in addition to rate base.

22 Q. Okay. On page 13 of your rebuttal, toward
23 the bottom of that page, you're discussing the 1988
24 Carolina Power and Light case involving the cost

1 recovery for the Shearon Harris Nuclear Plant.

2 A. Right.

3 Q. And you indicate that the Commission allowed
4 full recovery of the prudently incurred used and useful
5 portion of the Harris plant; is that right?

6 A. Yes.

7 Q. Okay. That would have been Harris Unit 1,
8 right?

9 A. Right.

10 Q. Because Units 2, 3, and 4 were canceled; is
11 that correct?

12 A. That's my understanding.

13 Q. Okay. And Unit 1 has actually been used and
14 useful on generating electricity successfully for more
15 than 31 years since that case; is that your
16 understanding?

17 A. I'll accept that.

18 Q. Okay. Now, those Unit 1 costs were allowed
19 in rate base in 1988 as utility plant as long-term
20 physical assets and not as O&M expenses, weren't they?

21 A. I will accept that.

22 Q. I mean, it's steel in the ground, right?

23 A. Okay.

24 Q. Okay. Let's talk a little bit about working

1 capital, which we could turn to pages 18 and 19 of your
2 testimony, we would suggest somewhat there, working
3 capital includes both materials and supplies and
4 inventory and also includes cash working capital?

5 A. Right.

6 Q. Okay. You're not suggesting that the CRR
7 expenditures of Dominion are materials, and supplies,
8 and inventory, are you?

9 A. No. And, you know, I relied upon, for that
10 determination, again, how these costs have been treated
11 in previous cases. There is a separate section in the
12 working capital portion of rate base for additions and
13 deductions to rate base, and that is based on an
14 analysis of the Company's balance sheet -- you know,
15 non-plant-related balances, but nevertheless, you do an
16 analysis of the Company's balance sheet, and to the
17 extent there is sources of investor funds or, you know,
18 sources that are provided by the customer, those are
19 incorporated into the working capital section of rate
20 base in addition to materials, and supplies, and cash
21 working capital.

22 Q. Okay. So then -- and that's exactly where
23 I'm going with this.

24 This is a traditional cash working capital;

1 it's a separate category working capital as you
2 understand it?

3 A. Yeah, I agree it is working capital, yes.

4 Q. Okay. But not cash working capital, which
5 flows from the lead-lag study?

6 A. Right.

7 Q. Okay.

8 A. Just let me just clarify. A part of the
9 lead-lag study -- so the Company -- I believe it's my
10 Schedule 4, in Exhibit PMM-1, has a cash working
11 capital calculation, which is based on just current
12 operations. Operating expenses in the current period
13 and imputing a lead or lag. Based on either operating
14 revenues or the expenses themselves, there would be a
15 timing difference between, you know, when you are
16 theoretically recovering those costs from customers and
17 when you are actually paying for those expenses.

18 But again, separately -- and this is standard
19 practice. We have been doing this for several cases.
20 We have a balance sheet analysis portion of working
21 capital where we identify more long-term items, which
22 this CCR asset at issue in this case was identified in
23 that process and is included as a component of working
24 capital through that analysis. We refer to that as the

1 balance sheet analysis.

2 Q. Okay. Going back to cash working capital,
3 the purpose of that, is it fair to say, is to fund the
4 ongoing day-to-day operations of the utility?

5 A. Yeah. For those operating expenses that are
6 just currently flowing through cost of service and --
7 right. To the extent there is a deferral, again, those
8 wouldn't -- those wouldn't be flowing through operating
9 expense. They would be deferred.

10 Q. Right. So -- and this is for those of us who
11 are not accountants -- just looking at the lead-lag
12 that is the basis for cash working capital, if I
13 understand correctly, Company may have to pay an
14 expense, say on day one of a month, and that is funded
15 from investor money. And then say on day 31 in the
16 month, customer bills come in and you have got revenue
17 to reimburse for that. Meanwhile, you have had -- from
18 day 1 to day 31, you have got 30 days when the investor
19 capital had the carrying costs before the revenues from
20 the customers came in.

21 A. Right.

22 Q. Is that essentially how the lead-lag -- and
23 then what you do is you net all the leads and lags and
24 you come up with an average dollar amount that recurs

1 every month as what's needed to fund those ongoing
2 operations, and that becomes your cash working capital?

3 A. Yeah. I think you're accurately describing
4 that --

5 Q. Okay.

6 A. -- you know, discrete component of working
7 capital. And again, there are other components.

8 Q. So -- and I understand that the CCR
9 expenditures, the regulatory asset, you have included
10 as another component of working capital; is that right?

11 A. Correct.

12 Q. Okay. But the past coal expenditures, such
13 as the \$377 million from 2016 and 2019, those are
14 not -- those specific expenditures are not funds held
15 for the payment of future expenses, are they?

16 A. If you are speaking directly about cash
17 working capital, that one discrete component of overall
18 working capital --

19 Q. Yes.

20 A. -- that's correct. I did do some research
21 and -- you know, preparing for this hearing -- and
22 found Robert L. Hahne has a book, "Accounting For
23 Public Utilities," which provides guidance for
24 regulatory accounting, ratemaking, how costs are

1 treated, and he has a quote in here, "For ratemaking
2 purposes, working capital is a measure of investor
3 funding of daily operating expenditures," which I think
4 that's what you are speaking to, "and," he goes on,
5 "and a variety of non-plant investments that are
6 necessary to sustain ongoing operations of the
7 utility."

8 So I think, you know, if you're taking a
9 narrow view of just cash working capital, you know,
10 this deferral balance wouldn't necessarily meet that
11 definition. But I think, if you look at how the
12 Commission develops working capital just in practice
13 over the years, it's a broader view, and these deferral
14 balances, at least in my experience, there are several
15 cases where you'll have O&M related to prior periods
16 that are deferred and the unamortized balances included
17 as a component of rate base in working capital.

18 Q. So -- and I understand that. Here's where
19 I'm going with this.

20 The Company cites a 1984 VEPCO case from the
21 North Carolina Supreme Court as saying that working
22 capital is properly used and useful; is that correct?

23 A. (Witness peruses document.)

24 Yes, that's right.

1 Q. Okay. And in that court opinion -- just to
2 kind of end the suspense here -- they describe working
3 capital, and that description includes materials and
4 supplies, and it includes cash working capital, but it
5 does not include any other components of working
6 capital, does it?

7 A. (Witness peruses document.)

8 If you read -- and I think I am looking at
9 the quote you are looking at. It says, "The utilities
10 own funds reasonably invested in such materials and
11 supplies and its cash funds reasonably so held for
12 payment of operating expenses as they become payable."
13 That seems to me it would -- you know, I think that's
14 exactly what we're dealing with here, where we have
15 spent -- you know, the Company has spent nearly
16 \$380 million since its last rate case on CCR
17 remediation, which, as we discussed, you are
18 characterizing as operating expenses, 98 percent of it
19 are operating expenses. But this definition, to me, in
20 reading it, it would, in my view, include this deferral
21 balance that we are speaking of.

22 Q. Okay. I understand your interpretation. It
23 does say cash funds reasonably so held for payment of
24 operating expenses as they become payable.

1 So that would be funds held for future
2 expenses as they become payable, right? Not the past
3 expenditures.

4 A. I think my perspective in this case with
5 regard to the CCR balances, as those costs become
6 payable; i.e., recovered through rates in the future,
7 that's when they would no longer -- they would no
8 longer need to be a balance in rate base for those.
9 But in the interim time period when we've spent the
10 cash, it hasn't been included in rates -- you know, per
11 the Commission's order in the 2016 case, there is a
12 regulatory lag there between when, you know, those cash
13 funds were spent and when they will become -- you know,
14 when we will recover them from customers. In the
15 meantime, that represents working capital.

16 Q. Right. You have a financing cost here, but
17 that's not the cash working capital for future
18 operating expenses, is it?

19 A. Again, I think --

20 Q. It's a div- --

21 A. If you are talking about cash working
22 capital, that is more of a narrow discrete view of
23 working capital. I think I -- you know, this
24 Commission has found other items are working capital,

1 including regulatory asset balances.

2 Q. Okay. Let's turn to page 22 of your
3 rebuttal.

4 Now, would you agree that, in Mr. Maness'
5 testimony, he identifies the magnitude of coal ash
6 costs as one of the factors the Public Staff used to
7 recommend an amortization period?

8 A. Yes.

9 Q. Basically, bigger magnitude suggests a longer
10 amortization in the Public Staff's opinion?

11 A. I don't recall if he was saying -- Mr. Maness
12 was saying that we need to have a long amortization
13 period just because of the size of these costs. Maybe
14 he was supporting the sharing concept, which, you know,
15 he was recommending excluding the balance from rate
16 base and amortizing over a long period of time. I
17 think it was in support of just the whole concept.

18 Q. Okay. So, as I read your testimony, you're
19 at least implying that there is some inconsistency in
20 his testimony in the 2016 case where he recommended
21 initially, before stipulation, a 10-year amortization,
22 whereas in the present case he recommends 18 years; is
23 that a fair characterization?

24 A. Yes.

1 Q. Okay. The magnitude of the coal ash costs
2 sought for recovery in the present case are somewhere
3 between four and five times as much as those the
4 Company sought in the 2016 case; is that correct?

5 A. Yeah, that's right.

6 Q. Okay. On the topic of used and useful, did
7 the 2016 rate case order for Dominion identify which
8 CCR expenditures were property used and useful and
9 which were O&M expenses as they would have been booked
10 without FERC ARO accounting?

11 A. No. I don't recall there being a need to
12 distinguish between the two. In my view, I don't know
13 if you really need to do that. I think it's just --
14 again, we are following the cash. We are not -- you
15 know, all ARO accounting is adjusted out for purposes
16 of ratemaking, and we are simply looking at what are
17 the cash flows, regardless of hypothetically they would
18 have been capital O&M.

19 Q. Right. That wasn't even an issue that the
20 witnesses addressed in 2016, was it?

21 A. Right.

22 Q. Okay. Now, that issue did come up when the
23 Attorney General filed its post-hearing brief in that
24 case, if you are aware?

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1 A. Can you remind me of it?

2 Q. The question of whether the coal ash
3 expenditures qualify as used and useful?

4 A. Right. And I think that's where the
5 Commission drew its decision from. That was the
6 litigation around that --

7 Q. Right.

8 A. -- cost where the Commission found that the
9 deferral balance was used and useful.

10 Q. So the Attorney General's position in that
11 case was that they were not used and useful simply
12 because some of the plants were no longer in service,
13 if you recall?

14 A. (Witness peruses document.)

15 I believe, in that case, the Attorney General
16 was pointing to -- it says Carolina water service case,
17 which related to abandoned plant where, again, I think
18 similar to the nuclear plants, the Commission made a
19 finding about these costs not being used and useful,
20 and the Commission distinguished between those costs
21 and the CCR costs at issue in this case and ultimately
22 decided that the Company should earn a return.

23 Q. Let's turn to page 17 in your rebuttal -- and
24 we're almost through here -- starting at line 4. We

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1 are almost through with my part. I can't speak for
2 everyone else. Maybe that's wishful thinking.

3 Starting on line 4 you say, "As a threshold
4 matter, the coal plants associated with these costs" --
5 you mean -- by "these costs," you are talking about the
6 CCR expenditures?

7 A. Right.

8 Q. "And the related coal ash disposal facilities
9 have been used and useful in providing low-cost,
10 reliable power to North Carolina customers for
11 decades." So a couple of questions on that. You are
12 speaking in past tense here that they have been used
13 and useful.

14 Are all those facilities -- all those
15 coal-fired facilities still providing electric power,
16 or have some of them retired?

17 A. I think we established earlier that several
18 of those plants have been retired, but if you look at
19 the Commission -- here's the quote from the order here.
20 I think they found that, you know, those ash basins,
21 you know, while maybe they aren't accepting, you know,
22 ash from current operations, they are still being used
23 and, you know, my -- I guess my view is that that's
24 part of the lifecycle of those facilities, which one

1 could say that they are and continue to be used and
2 useful .

3 Q. So when we talk about, for North Carolina
4 retail ratemaking purposes, is there a difference
5 between utility plant that's used and useful and the
6 operating expenses associated with that plant?

7 A. Yeah. I think, yeah, that's true.

8 Q. One is entitled to a return and the other is
9 not entitled to a return, if you know?

10 A. I think I have said in my testimony, you
11 know, it's my view that the Company is entitled to a
12 return. Maybe -- I don't know if I'm saying that from
13 a legal perspective or not, but, you know, these costs
14 at question in this case were prudently incurred, and
15 this deferral balance is similar to the costs addressed
16 by the Commission in recent cases. You know, it was
17 unexpected and extraordinary, was explicitly not
18 included in our current rates. You know, they are
19 incremental new costs. We are not dealing with plant
20 investment from years ago. I mean, these are, you
21 know, new expenditures since the Company's last rate
22 case.

23 Q. These are new expenditures to dispose of coal
24 ash waste a second time, not resulting in any new

1 electric service to customers, aren't they?

2 A. Right. But I don't think that's -- if you
3 are thinking about used and useful, that wasn't what
4 the -- you know, the fact that it's -- that those
5 plants are no longer accepting new ash or those plants
6 aren't generating new electricity, that wasn't really
7 what the Commission was looking at in the 2016 case.

8 Q. Okay. And speaking of the 2016 case, Sub 532
9 for Dominion, did the Commission's orders specify that
10 its decision was based on the facts and circumstances
11 in that case?

12 A. Yes.

13 Q. And one of those facts and circumstances
14 included a negotiated settlement between Public Staff
15 and the Company?

16 A. It did, but as you mentioned, the Attorney
17 General's office took issue with, you know, whether or
18 not those assets should be included in rate base. So
19 the Commission did render a decision on that and found
20 that the balance was used and useful.

21 Q. Right. And the order also stated that the
22 decision in that case was not precedent for ratemaking
23 treatment of coal ash cost in the future, didn't it?

24 A. Yes. But I would say, I mean, if -- you

1 know, if you are looking ahead now to this case, we
2 have very similar costs in question, and you are trying
3 to make a decision with regard to whether or not it
4 should be in rate base, it's certainly informative to
5 look at the Commission's previous decisions.

6 Q. Well, you say similar cost.

7 In the prior case, North Carolina retail is
8 about \$4.4 million, and here it's 20-or-so million?

9 A. Right. But we are still dealing with CCR
10 remediation.

11 Q. Right. And in the prior case, no party put
12 on evidence of culpability for environmental
13 contamination; in this case, at least the Public Staff
14 has put on that evidence, hasn't it?

15 A. Yes. But again, it's the Company's position
16 that these costs are reasonably and prudently incurred,
17 and the Public Staff made no specific finding of
18 imprudence.

19 MR. DROOZ: Okay. Thank you. Those are
20 all my questions.

21 CHAIR MITCHELL: Redirect?

22 MS. GRIGG: Just very briefly.

23 REDIRECT EXAMINATION BY MS. GRIGG:

24 Q. Mr. McLeod, Mr. Drooz asked you about your

1 rebuttal testimony on page 9 where you said the Public
2 Staff's position was standardless on its equitable
3 sharing concept, as they have called it.

4 A. Right.

5 Q. Do you remember that?

6 A. Yes.

7 Q. Is it your understanding of the Public
8 Staff's position that, even if the Company does
9 everything perfectly, there is not one exceedance,
10 there is not one aspect of culpability in their
11 opinion, that they would still recommend some level of
12 disallowance?

13 A. That's what I heard yesterday, yes.

14 Q. And I know you're not Mr. Hevert or
15 Mr. Davis, but, in your opinion, how do you think
16 investors would perceive a regulatory environment if
17 the Public -- if the Commission adopts the Public
18 Staff's position that some adjustment is appropriate
19 just because the costs are large?

20 A. I think that the -- you know, as you said,
21 I'm not Mr. Hevert, but the community would certainly
22 not view that favorably. I think that would mean that
23 there is a larger amount of uncertainty in future cases
24 if the Commission -- or, you know, were to make a

1 finding -- disallowance without any specific finding of
2 imprudence.

3 Q. And do you think it's likely that the Company
4 is going to be back in here in a few years, or some
5 number of years, requesting recovery of additional CCR
6 closure costs?

7 A. Yes, that's right.

8 Q. And Mr. Drooz asked you some questions about
9 the length of the amortization period and what's an
10 appropriate length of time to amortize these costs?

11 A. Right.

12 Q. And yesterday Commissioner Clodfelter asked
13 Mr. Maness about a general regulatory policy that
14 yesterday's customers shouldn't pay for today's costs?

15 A. Right.

16 Q. Do you remember that, kind of this
17 intergenerational cost?

18 Doesn't that principle, in your opinion, also
19 apply to long amortization periods?

20 A. Yeah. I think, if you're trying to make a
21 determination with regard to how long to amortize the
22 deferred cost, that certainly should be a
23 consideration, and I think would support, you know, all
24 else equal, a decision for a shorter amortization

1 period.

2 Q. Right. So tomorrow's -- a 19-year
3 amortization period, tomorrow's customers are paying
4 today's costs?

5 A. Right.

6 Q. And didn't you also note in your testimony
7 that, since the Company will be likely coming back for
8 additional -- to seek additional recovery of those CCR
9 costs, that you will, what I crassly labeled pancake,
10 so you will have additional costs on top of the ones we
11 are seeking recovery on today?

12 A. Correct. That's another aspect of why we
13 believe a shorter amortization period is appropriate.

14 MS. GRIGG: I don't have anything
15 further.

16 CHAIR MITCHELL: Questions from
17 Commissioners? Commissioner Clodfelter?

18 EXAMINATION BY COMMISSIONER CLODFELTER:

19 Q. Mr. McLeod, I just have a few questions.
20 The -- my first question is really a predicate for the
21 main question.

22 In your supplemental testimony, as I read it,
23 as of December 31, 2017, on a North Carolina
24 jurisdictional basis, the total amount of protected and

1 unprotected excess deferred income tax was
2 approximately \$94.1 million; is that correct?

3 A. You said on -- what page was that?

4 Q. I took it off of page 47. Just -- I want to
5 ask you a question about the number, but I want to make
6 sure I got the right number.

7 A. Yeah. Let me get there real quick.

8 Q. Okay.

9 A. (Witness peruses document.)
10 Are you looking at Figure 2?

11 Q. Yes.

12 A. Yes, okay.

13 Q. So we have got the right number, and that's
14 protected and unprotected, and that represents amounts
15 collected from customers that are, in some manner and
16 at some point, will be repaid to customers because the
17 Company doesn't need them to pay income taxes?

18 A. Yes.

19 Q. In layman's terms, that's correct?

20 A. Yeah.

21 Q. Now, that number, \$94.1 million, does not
22 connect to any segregated account containing
23 \$94.1 million of cash untouched? Doesn't relate to
24 that, does it? There is no such thing?

1 A. No. It's not a cash --

2 Q. There is no such thing as a \$94.1 million
3 account that the Company has set aside and segregated?
4 That doesn't exist, does it?

5 A. Well, we would have regulatory assets --
6 regulatory asset liability accounts, but you are
7 correct in that there wouldn't be a specific amount of
8 cash.

9 Q. Those are not funded cash accounts set aside
10 somewhere, correct?

11 A. Correct.

12 Q. Again, I will ask you to sort of -- if you
13 want to check, that's fine, but I took this from the
14 Company's trial balance sheet as of December 31, 2018,
15 and according to the trial balance sheet, as I read it,
16 the total aggregate Company-wide -- not North Carolina
17 jurisdictional but Company-wide basis, because that's
18 what's on the balance sheet -- the total balance of all
19 regulatory liability accounts was \$3,813,023,099; does
20 that sound right to you?

21 A. Was that in one of our E-1 items?

22 Q. Yes, it was. Yes. It's from the trial
23 balance sheet as of December 31, 2019.

24 Subject to check, would you take it that's

1 correct?

2 A. Yes.

3 Q. That's just the predicate, because my
4 question really is, that number doesn't represent an
5 amount of cash sitting aside somewhere in an account
6 untouched, does it? It's not a funded cash account, is
7 it, that number?

8 A. All the regulatory assets and --

9 Q. No. These are regulatory liabilities.

10 A. All of the regulatory liabilities?

11 Q. Funds provided by customers that will be
12 returned to customers at some point.

13 A. I hesitate, because it may -- you know,
14 without doing a lot of research, it may include funding
15 or amounts associated with the nuclear decommissioning
16 trust, which in those cases -- or in that case there
17 would be a cash balance associated with that.

18 Q. Fair point. So let's leave those to one
19 side. Aside from those funds -- and whatever that
20 number would be, we subtract that from the 3 billion
21 813 million and so forth, but the remainder doesn't
22 represent a funded cash account, does it?

23 A. I guess, in general, I would agree with that.

24 Q. Okay. Did you participate in the 2016 rate

1 case -- general rate case for the Company?

2 A. Yes. I was a witness.

3 Q. Am I correct -- because I did not
4 participate, so that's why I have to ask you the
5 question.

6 The Company presented an updated depreciation
7 asked in the 2016 rate case, correct?

8 A. No. In that case -- so we presented a new
9 depreciation study in this case.

10 Q. In this case?

11 A. Based on, I believe, calendar year 27 -- 2017
12 activity. Prior to that would have been the 2012
13 depreciation.

14 Q. 2012 depreciation study?

15 A. Right.

16 Q. But your study in this case -- that presented
17 in this case, and the study in the 2012 case are the
18 two most recent depreciation studies the Company has
19 presented, correct?

20 A. Virginia Power; yes, that's right.

21 Q. For North Carolina purposes?

22 A. For Virginia Power and North Carolina
23 jurisdiction, correct.

24 Q. That's fine. That's all I have. Thank you.

1 A. Okay.

2 CHAIR MITCHELL:

3 Commi ssi oner Brown-Bl and.

4 EXAMI NATION BY COMMI SSIONER BROWN-BLAND:

5 Q. We could hold this out for Witness Williams
6 if you don't know this answer, but just in case you do,
7 were you familiar with the two cases West vs. VEPCO and
8 Morrow vs. VEPCO litigation in Virginia circuit court
9 regarding property damages?

10 A. Sorry, I'm not familiar with those cases.

11 Q. Okay. We will wait and hold off for
12 Witness Williams.

13 CHAIR MITCHELL: Questions on
14 Commi ssi on' s questi ons?

15 (No response.)

16 CHAIR MITCHELL: Okay. Thank you. You
17 may step down. And I will entertain motions.

18 MS. GRIGG: I don't think we have any
19 exhibits to Mr. McLeod's testimony, but ask that it
20 be entered into the record.

21 CHAIR MITCHELL: Motion is allowed.

22 (Whereupon, the prefiled rebuttal
23 testimony of Paul M. McLeod was
24 previously copied into the record as if

1 given orally from the stand and included
2 in Volume 6.)

3 MR. DROOZ: And Public Staff moves that
4 our three cross examination exhibits be admitted
5 into evidence.

6 CHAIR MITCHELL: Motion is allowed.
7 (Public Staff Cross Examination of
8 Paul McLeod Exhibit Numbers 1 through 3
9 were admitted into evidence.)

10 COMMISSIONER CLODFELTER: Madam Chair,
11 in connection with this witness' testimony, I would
12 like to ask that the Commission take judicial
13 notice of the 2012 depreciation study presented in
14 the Company's rate case contemporaneously at that
15 time and the supporting testimony of the sponsoring
16 witness of that study.

17 CHAIR MITCHELL: Commission shall take
18 judicial notice as requested.

19 Please call your next witness.

20 MR. SNUKALS: Dominion Energy
21 North Carolina now calls Mr. Jason E. Williams to
22 the stand.

23 CHAIR MITCHELL: Mr. Williams, I will
24 just remind you you are still under oath.

1 JASON E. WILLIAMS,
2 having previously been duly sworn, was examined
3 and testified as follows:

4 DIRECT EXAMINATION BY MR. SNUKALS:

5 Q. Would you please state your name and business
6 address for the record?

7 A. Yes. Jason E. Williams. Business address,
8 5000 Dominion Boulevard, Glen Allen, Virginia 23060.

9 Q. By whom are you employed and in what
10 capacity?

11 A. I am employed by Dominion Energy Services
12 Incorporation, with context of this testimony as the
13 director of environmental services.

14 Q. Did you cause to be prefiled in this docket
15 on September 12, 2019, 47 pages of rebuttal testimony
16 in question-and-answer form and 8 exhibits consisting
17 of 463 pages?

18 A. Yes, I did.

19 Q. Do you have any changes or corrections to
20 that rebuttal testimony or exhibits?

21 A. No, I do not.

22 Q. If I were to ask you the same questions that
23 appear in your rebuttal testimony today, would your
24 answers be the same?

1 A. Yes, they would.

2 MR. SNUKALS: Chair Mitchell, at this
3 time, I would move that the prefilled rebuttal
4 testimony of Mr. Williams be copied into the record
5 as if given orally from the stand including the
6 exhibits thereto.

7 CHAIR MITCHELL: The rebuttal testimony
8 of Mr. Williams shall be admitted, and we will
9 identify those exhibits as premarked, and we will
10 hold off on admitting those until he is -- until
11 cross examination is complete.

12 (Company Rebuttal Exhibits JEW-1 through
13 JEW-8 were identified as premarked.)

14 (Whereupon, the prefilled rebuttal
15 testimony of Jason E. Williams was
16 copied into the record as if given
17 orally from the stand.)

**REBUTTAL TESTIMONY
OF
JASON E. WILLIAMS
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 562**

I. INTRODUCTION

1

2 **Q. Please state your name, position of employment, and business address.**

3 A. My name is Jason E. Williams, and my business address is 5000 Dominion
4 Blvd, Glen Allen, Virginia 23060. My title, as of the filing of my direct
5 testimony in this case, was Director – Environmental Services for Dominion
6 Energy Services, Inc., a subsidiary of Dominion Energy, Inc. (“Dominion
7 Energy”), which provides services to Virginia Electric and Power Company,
8 doing business in North Carolina as Dominion Energy North Carolina (the
9 “Company” or “DENC”). On July 1, 2019, I transitioned to a new role within
10 the Company as Director, Learning Development & Communications.

11 **Q. On whose behalf are you submitting this rebuttal testimony?**

12 A. I am submitting rebuttal testimony on behalf of DENC.

13 **Q. Are you the same Jason Williams who filed direct testimony in this case?**

14 A. Yes.

15 **Q. Please discuss the purpose of your rebuttal testimony.**

16 A. The purpose of my rebuttal testimony is to respond to several issues discussed
17 in the direct testimony of Public Staff Witnesses Jay B. Lucas and Michael C.

1 Maness that are related to the Company's request to recover its compliance
2 costs for managing coal combustion residuals ("CCR").

3 **Q. Do you have any general comments you would like to make about the**
4 **Public Staff's testimony?**

5 A. Yes. The Public Staff argues that the Company should not be allowed to
6 recover all of its CCR costs because it is "culpable." The Public Staff
7 contends that the Company should have taken some undefined actions at some
8 unspecified times in the past to change industry standards for managing and
9 storing CCR. The Public Staff should understand that this argument is
10 untenable. As Mr. Lucas has previously stated:

11 *We can't go back in time and say, oh, they should have put in a clay*
12 *liner in 1978 or done dry ash stacking in the 1980s. I mean, that's*
13 *impossible to go back and put all these "what ifs" together and say*
14 *exactly here's what they should have done. And here's what would*
15 *have been the cost, and that cost would have been in the rates today*
16 *for customers.*

17 ...
18 *[T]hat's going back to the past. Somebody could have gone back and*
19 *said what you should have done back at a certain time. And that's —*
20 *you could be talking about the prudence, and I can't go back and — I*
21 *can't go back and tell you exactly what would have happened what you*
22 *should have done at a certain time. I'm not sure what good it would*
23 *have done...*¹

24 It is unclear how the Public Staff can argue that the Company is culpable,
25 while at the same time acknowledging that it cannot identify a specific action
26 that the Company could have taken.

¹ Tr. Vol. 19, pp. 34-5; 37 (Docket No. E-2, Sub 1142).

1 **Q. Please summarize your rebuttal testimony.**

2 A. The Public Staff effectively recommends a disallowance of 40% (forty
3 percent) of the Company's requested costs to comply with recent federal and
4 state CCR regulatory requirements that did not exist when the Company
5 began construction and operation of its CCR storage facilities, including
6 surface impoundments and landfills. To implement this disallowance, the
7 Public Staff recommends that the Commission adopt an equitable sharing
8 approach whereby the Company's CCR unamortized amount of the deferred
9 costs are excluded from rate base, which means that the Company will not
10 earn a return on the unamortized balance. The Public Staff recommends that
11 the costs be amortized for a period of 19 years. This would result in a 60-40
12 split where the Company would not recover 40% of its costs.

13 The Public Staff cites two purported justifications for its equitable sharing
14 approach. First, Public Staff Witness Lucas alleges that DENC is culpable for
15 environmental degradation that now requires expensive remediation, the costs
16 of which should be shared between the Company and its customers. Second,
17 Public Staff Witness Maness argues that even in the absence of evidence of
18 environmental culpability, the Public Staff would recommend equitable
19 sharing due to the enormity of the costs. My testimony will primarily focus
20 on addressing Witness Lucas' testimony regarding the Company's CCR
21 management and environmental compliance. Company Witness Paul M.
22 McLeod will address Witness Maness' testimony.

1 First, my rebuttal testimony will address the appropriate scope of issues to be
2 determined by this Commission with respect to CCR management costs,
3 which is whether the Company's management decisions and associated costs
4 from July 1, 2016 through June 30, 2019 to comply with the federal CCR Rule
5 and state regulations were reasonable and prudent. The Public Staff has not
6 alleged that DENC has imprudently or unreasonably incurred a single cost in
7 this case related to its CCR impoundments or landfills.

8 Second, I will respond to the Public Staff's criticisms of DENC's historical
9 CCR management practices. I will discuss the inappropriateness of the Public
10 Staff assuming the role of an after-the-fact environmental regulator. I will
11 also address the Public Staff's criticism of my experience and expertise. My
12 testimony will then provide the historical and regulatory context to properly
13 frame the evolving body of scientific knowledge regarding CCR disposal
14 methods. I will describe how Virginia's and West Virginia's environmental
15 regulators have taken a responsible and measured approach to regulating
16 CCR, and how DENC has complied with the directives and guidance from its
17 regulators. I will show that DENC has historically managed its CCR
18 responsibly in compliance with industry standards and with state and federal
19 regulations.

20 Third, I will respond to the Public Staff's accusation that the Company has not
21 been responsive and forthcoming during the discovery process. Relying on
22 that allegation, the Public Staff then baselessly infers that filling in the
23 information gaps would likely show problems with DENC's management

1 practices that would further justify a disallowance. The Public Staff's
2 characterization of the discovery process is wrong and misleading.

3 Lastly, I will respond to the Public Staff's extrinsic testimony intended to cast
4 the Company in a negative light, including testimony about litigation against
5 the Company, purported incidences of noncompliance, the Battlefield Golf
6 Club, and the Chisman Creek Site.

7 **II. RESPONSE TO THE PUBLIC STAFF'S TESTIMONY**

8 **A. CCR Costs from July 1, 2016 through June 30, 2019**

9 **Q. What CCR costs has DENC requested recovery of in this general rate**
10 **case?**

11 A. In my direct testimony, I outlined the scope of the Company's request related
12 to CCR compliance costs. My testimony described in detail the decisions
13 made by the Company from July 1, 2016 through June 30, 2019 to comply
14 with new federal and state CCR regulatory requirements at seven facilities in
15 Virginia – Bremo, Chesapeake, Chesterfield, Clover, Possum Point, Virginia
16 City Hybrid Energy Center, and Yorktown - and one facility in West Virginia
17 – Mt. Storm. Company Witness Mark Mitchell explained the costs associated
18 with those decisions. The proper issue before this Commission is whether the
19 identifiable CCR costs that the Company incurred from July 1, 2016 through
20 June 30, 2019 were the result of reasonable and prudent decisions made at the
21 time the costs were incurred.

1 **Q. Has the Public Staff recommended any specific disallowances for those**
2 **CCR costs?**

3 A. No. The Public Staff does not recommend a single, specific disallowance of
4 the Company's costs related to its CCR impoundments or landfills. In other
5 words, the Public Staff does not determine that DENC's costs to comply with
6 the CCR Rule or state regulatory requirements were unreasonable or
7 imprudent. *See* Lucas T. at 6:4-5 ("I note that the equitable sharing
8 recommendation is not based on the imprudence standard..."). As discussed
9 by Company Witness McLeod, DENC, therefore, should be allowed to
10 recover its compliance costs.

11 **Q. Has the Public Staff recommended a general disallowance of the**
12 **Company's CCR costs?**

13 A. Yes. As discussed by Company Witness McLeod, the Public Staff's
14 "equitable sharing" recommendation is effectively a disallowance of 40% of
15 DENC's requested costs. However, the 40% disallowance is arbitrary and not
16 tied to any specific cost that the Company has incurred. Nor is the proposed
17 disallowance tied to any specific finding of unreasonableness or imprudence
18 on behalf of the Company.

19 **Q. What is the effect of the Public Staff's selective use of the prudence**
20 **standard as it relates to its general disallowance recommendation?**

21 A. The Public Staff ignores the costs and contemporaneous management
22 decisions related to this case and focuses instead on historical decisions made
23 decades before these costs were incurred. The Public Staff replaces the

1 prudency standard with a new standard upon which to judge the Company's
2 decisions – culpability. Taking a hindsight approach, the Public Staff
3 scrutinizes DENC's decades-old CCR management decisions to manufacture
4 a disallowance of present-day costs. However, the Public Staff does not
5 identify any specific economic impact of the Company's decision, as would
6 be required under the prudence standard. The Public Staff acknowledges that
7 identifying any specific economic impact of the Company's decisions or
8 omissions from decades in the past on current costs would be impossible. The
9 mere fact that the Public Staff admits that such a task would be impossible
10 demonstrates the unfairness of its methodology. Instead, the Public Staff
11 adopts an even more attenuated and speculative standard - recommending a
12 general disallowance of present-day costs based on unspecified past decisions
13 or omissions.

14 **B. CCR Management History**

15 **Q. What is your understanding of the role of the Public Staff and the**
16 **Commission with respect to the Company's historical environmental**
17 **practices?**

18 **A.** Based on prior statements made by Witness Lucas, my understanding is that
19 the Public Staff and the Commission are not environmental regulators.
20 Therefore, Mr. Lucas' criticism of the Company's historical CCR practices is
21 improper and conflicts with the Public Staff's longstanding positions
22 regarding environmental compliance. DENC can find no instance prior to
23 2016 where the Public Staff had raised any concerns regarding groundwater or

1 surface water issues related to CCR or CCR management strategies at any of
2 DENC's facilities. Neither can the Public Staff. Company Rebuttal Exhibit
3 JEW-1 (PS Response to DR 2-15).

4 To explain why the Public Staff had never evaluated environmental
5 compliance related to CCR management in the past, Mr. Lucas previously
6 testified that the role of the "Public Staff is to protect the using and consuming
7 public while reviewing the managerial, financial and technical aspects of the
8 company. *We're not environmental regulators.*" Company Rebuttal Exhibit
9 JEW-2 (Lucas Dep. T. at 86 (E-2, Sub 1142)) (emphasis added). Mr. Lucas
10 went on to explain that the focus of the Commission and the Public Staff is the
11 regulation of cost and rates, not environmental regulation. *Id.* In North
12 Carolina, environmental regulation is the responsibility of the North Carolina
13 Department of Environmental Quality ("NC DEQ"). *Id.* Likewise, in
14 Virginia and West Virginia, environmental regulation is the responsibility of
15 the Virginia Department of Environmental Quality ("VA DEQ") and West
16 Virginia Department of Environmental Protection ("WV DEP"), respectively.
17 The division of responsibilities – between economic regulation and
18 environmental regulation – ensures consistency and efficiency.

19 The Public Staff did not raise any concerns about DENC's CCR management
20 practices and environmental compliance at the time when the decisions related
21 to CCR management were made in the 1970's, the 1980s, the 1990s, or the
22 2000s. From the Company's perspective, it would have been reasonable to
23 assume that the Public Staff did not have any concerns or did not otherwise

1 believe that the Company's CCR management practices were imprudent or
2 unreasonable. Fundamental principles of fairness and due process dictate that
3 the Company should be able to rely on the Public Staff's prior position and
4 not be subject to second-guessing decades later.

5 Even if the Public Staff did have concerns, which were never voiced to the
6 Company, the Public Staff are not environmental regulators. According to
7 Mr. Lucas, it was not the Public Staff's role to raise those concerns to the
8 Company or the Commission. It has also been Mr. Lucas' position that "[i]t
9 would not be mismanagement" for a utility to follow the directives of its
10 environmental regulators. *Id.* at 83. If the Public Staff's role did not involve
11 evaluating the Company's historical CCR environmental practices when the
12 management decisions were made, the Public Staff cannot argue that its role
13 now involves second-guessing the decisions of the Company and its
14 environmental regulators decades later. But that is exactly what the Public
15 Staff has done here. The Public Staff has supplanted VA DEQ's and WV
16 DEP's judgment with that of Mr. Lucas. Witness Lucas' testimony in this
17 case far exceeds his and the Public Staff's expertise and is unreliable.

18 **Q. Has the Public Staff recently acknowledged that it does not have**
19 **environmental expertise?**

20 A. Yes. On May 24, 2019, the Public Staff submitted the testimony of Evan D.
21 Lawrence, Utilities Engineer, Electric Division in Docket No. EMP-103, Sub
22 0. Mr. Lawrence, like Mr. Lucas, is also an engineer within the Electric
23 Division of Public Staff. In that docket, Albemarle Beach Solar, LLC applied

1 for a certificate of public convenience to construct an 80 megawatt solar
2 facility in Washington County, North Carolina. Certain intervenors raised
3 issues regarding the environmental impacts of the project. The Public Staff
4 deliberately did not weigh in on the environmental issues surrounding the
5 project:

6 “[T]he Public Staff does not have particular expertise in the area of
7 impacts of electric generation on the environment. Those issues are
8 best left to the purview of environmental regulators who do have this
9 expertise, and who are responsible for issuing specific environmental
10 permits for electric generating facilities. To that end, as stated below,
11 the Public Staff recommends that the Commission require compliance
12 with all permitting requirements[.]”

13 Company Rebuttal Exhibit JEW-3 (Lawrence T. at 7 (EMP-103, Sub 0)).

14 Despite the Public Staff’s admitted lack of expertise regarding and jurisdiction
15 over the environmental impacts of electric generation, the entire purpose of
16 Mr. Lucas’ testimony is to characterize the environmental impacts of DENC’s
17 coal generation facilities. The Public Staff goes even further by attempting to
18 establish, in hindsight, subjective and ill-defined environmental compliance
19 standards that the Company should have been bound to follow. I do not
20 believe that the Public Staff should be critiquing or attempting to supplant the
21 expert decisions of environmental agencies, particularly when those decisions
22 were informed by the context of the distant past.

23 **Q. How do you respond to the Public Staff’s criticisms of your background**
24 **and experience?**

25 **A.** I believe the criticisms are unfounded. I am a professional geologist with
26 almost twenty (20) years of groundwater remediation and waste management

1 experience. This experience includes five years that I spent with VA DEQ,
2 where I was the lead staff on reviewing coal ash regulations following the
3 TVA dam failure in 2008. My role was to not only provide expertise in coal
4 ash, but to also provide guidance regarding Virginia's groundwater
5 requirements and their history. While at the Company, I have become
6 proficient in West Virginia's groundwater regulations and their application to
7 DENC's Mt. Storm facility. Since the Public Staff's recommended
8 disallowance is largely based on alleged groundwater issues at DENC's sites
9 in Virginia and West Virginia, I am extremely well-qualified to explain the
10 Company's CCR management decisions with respect to groundwater in those
11 states.

12 Additionally, I am well-positioned to discuss the history of CCR management
13 at DENC's facilities. In my role as Director of Environmental Services, I was
14 responsible for overseeing environmental compliance at all of DENC's coal-
15 fired plants. That role required that I understand how those plants and CCR
16 storage facilities have been historically operated. As discussed further below,
17 I have reviewed historical regulatory reports as well as the studies cited by
18 Mr. Lucas, and I am well-qualified to understand those materials in their
19 proper context and to draw meaningful and reasoned conclusions from them.

20 **Q. Do you have any other observations regarding the Public Staff's position**
21 **on the Company's CCR management?**

22 A. Yes. My impression is that the Public Staff is being unfairly punitive to the
23 Company. It appears that only in cases relating to coal ash does the Public

1 Staff depart from its admitted area of expertise. It is my opinion that the
2 Public Staff's disparate treatment of coal ash issues is arbitrary and does not
3 serve the industry, customers, or the Commission well.

4 I also believe that allowing or encouraging the Public Staff to take on the role
5 of a hindsight environmental regulator – particularly by revisiting decades-old
6 records and decisions – would promote inefficiency and inconsistency within
7 the utility industry. It would be inefficient because environmental regulators
8 already consider and understand the potential impacts of their decisions, such
9 as when and to whom to issue permits, when and where to require and not
10 require groundwater monitoring, or how potential impacts, if manifested,
11 should be addressed. The Public Staff is attempting to second-guess those
12 efforts but without the requisite level of expertise. It would promote
13 inconsistency because having utilities be subject to the Public Staff's
14 hindsight environmental review would potentially undermine the decisions,
15 judgment, and expertise of environmental regulators.

16 **Q. Does the Public Staff have any criticisms of DENC's past CCR**
17 **environmental practices?**

18 A. Yes. Mr. Lucas' criticisms can be summarized as follows:

- 19 • Based on an "evolving body of scientific knowledge...by the early
20 1980's, the electric generating industry knew or should have
21 known that the wet storage of CCR in unlined surface
22 impoundments was detrimental to the quality of surrounding
23 groundwater and surface water." Lucas T. at 34-35;

- 1 • “[I]ndustry leaders, prior to the recent nationwide trend towards
2 development, strengthening, and enforcement of regulations for
3 storage and disposal of CCR, were at least partly responsible for
4 setting the “industry standard” for waste disposal, which they cite
5 for past decisions regarding coal ash management.” *Id.* at 37;
- 6 • “DENC and other utilities should have installed comprehensive
7 groundwater monitoring well networks to determine if the risk was
8 materializing at their ash ponds.” *Id.*;
- 9 • The Company’s decision not to construct a dry ash waste disposal
10 site at Possum Point was unreasonable. *Id.* at 47;
- 11 • Historical reports related to Chesapeake, Chesterfield, Yorktown,
12 and Chisman Creek show evidence of degradation of the natural
13 groundwater quality as a result of the Company’s coal ash disposal
14 practices. *Id.* at 50-56;
- 15 • “Unanswered questions remain about what the Company knew or
16 did not know regarding CCR contamination at the time it made key
17 decisions pertaining to coal ash storage...The Company is not able
18 to demonstrate, with the records available, that it fully accounted
19 for and mitigated the risks of CCR contamination in prior decades
20 of CCR disposal and management.” *Id.* at 56;
- 21 • “The Public Staff believes that the Company has had exceedances
22 at its impoundments over a long period of time.” *Id.* at 73; and

- 1 • The Company's CCR compliance costs are related to corrective
2 actions that would only be needed where CCR constituents have
3 contaminated the water to a degree in excess of environmental
4 standards. *Id.* at 75.

5 Based on the above criticisms, Mr. Lucas determines that "DENC has a great
6 deal of culpability for compliance costs related to CCR impoundment
7 closures..." and that equitable sharing of those costs is reasonable. *Id.* at 79.

8 **Q. Do you agree with the Public Staff's criticisms of DENC's historical CCR**
9 **management practices and the characterization of DENC's compliance**
10 **history?**

11 A. No. As I will discuss further below, Mr. Lucas' criticisms are unfounded.

12 **Q. How do you respond to the Public Staff's contention "that the electric**
13 **generating industry knew or should have known that the wet storage of**
14 **CCR in unlined surface impoundments was detrimental to the quality of**
15 **surrounding groundwater and surface water"?**

16 A. I take issue with this contention for several reasons. First, Mr. Lucas cites
17 historical studies without providing any context for the purpose of those
18 studies. None of the handful of articles cited condemn or suggest the
19 elimination of the use of unlined impoundments. As Mr. Lucas notes, these
20 articles are merely part the "evolving body of scientific knowledge" regarding
21 CCR management and disposal. Lucas T. at 34. The Public Staff has also
22 omitted findings and other reports that would provide additional context.

1 Second, unlined surface impoundments are not by their very existence
2 “detrimental” to groundwater and nearby surface water. As the
3 Environmental Protection Agency’s (“EPA”) reports in the 1980s, 1990s, and
4 2000s show, many site specific and regional factors must be considered to
5 evaluate potential impacts to water quality from surface impoundments. And,
6 even if impacts are discovered, that does not mean that any material harm to
7 the environment has occurred or is likely to occur.

8 **Q. What context do you believe is missing from the Public Staff’s testimony,**
9 **and how should that impact the Commission’s assessment of the Public**
10 **Staff’s recommendations?**

11 A. The Public Staff’s testimony is devoid of any qualitative analysis of the
12 evolving knowledge of potential impacts from CCR management practices.
13 Understanding the extent and nature of potential impacts is crucial to
14 determining whether the Company should have taken any different actions
15 with respect to managing its CCR and when those actions should have
16 occurred. One must also consider how different actions may have impacted
17 DENC’s ability to reliably generate electricity to meet demand and other
18 economic impacts.

19 Surface impoundments were constructed as an environmental solution, not an
20 environmental problem. Concerns about air emissions from coal-fired plants
21 resulted in the adoption of emission control technologies to collect CCR that
22 normally would have been emitted into the air. That CCR was then redirected
23 via water to surface impoundments, which served a water treatment function.

1 The EPA's approach to regulating CCR has evolved significantly over time,
2 ultimately culminating in the CCR Rule. Below, I have provided a summary
3 of this regulatory history, much of which was omitted from the Public Staff's
4 testimony.

5 Bevill Amendment

6 The EPA has never regulated CCR as a hazardous waste. In 1976, Congress
7 passed the Resource Conservation and Recovery Act ("RCRA") to create a
8 federal program for regulating hazardous waste. The program established a
9 "cradle to grave" approach managing hazardous waste. The program covers
10 the generation, transport, treatment, storage, and disposal of hazardous waste.
11 Four years later in 1980, Congress passed amendments to RCRA to exclude
12 the following wastes from regulation as hazardous:

13 fly ash waste, bottom ash waste, slag waste, and flue gas emission
14 control waste generated primarily from the combustion of coal or other
15 fossil fuels; solid waste from the extraction, beneficiation, and
16 processing of ores and minerals, including phosphate rock and
17 overburden from the mining of uranium ore; and cement kiln dust.

18 42 U.S.C. §6921(b)(3)(A)(i)-(iii) ("Bevill Amendment"). Thus, CCR was
19 considered by the EPA to be non-hazardous solid waste, subject to less
20 stringent standards.

21 1988 EPA "Report to Congress, Wastes from the Combustion of Coal by
22 Electric Utility Power Plants" ("1988 EPA Report")

23 The 1988 EPA Report was the EPA's first major evaluation of the scientific
24 body of knowledge regarding CCR disposal methods and potential
25 environmental impacts. The 1988 EPA Report was prepared in response to a

1 directive contained in the Bevill Amendment to “conduct a detailed and
2 comprehensive study and submit a report on the adverse effects on human
3 health and the environment, if any, of the disposal and utilization of fly ash
4 waste, bottom ash waste, slag waste, flue gas emission control waste, and
5 other byproduct materials generated primarily from the combustion of coal or
6 other fossil fuels.” 1988 EPA Report at ES-1.

7 Notably, the purpose of the historical studies cited in the Public Staff’s
8 testimony, along with numerous uncited scientific studies, was to aid the EPA
9 in reaching the findings and conclusions in the 1988 EPA Report. Those
10 studies were not intended to be interpreted in isolation, as the Public Staff has
11 done. It would, likewise, have been imprudent for the Company or its
12 environmental regulators to make decisions about CCR management based
13 solely on those isolated studies. The findings and conclusions the EPA
14 reached after evaluating the full body of scientific knowledge available at the
15 time were far more valuable.

16 The 1988 EPA Report did not conclude that groundwater contamination was
17 widespread or that, when it occurred, it posed a risk to human health or the
18 environment. To the contrary, EPA concluded that “when groundwater
19 contamination does occur, the magnitude of the exceedance is generally low.”

20 1988 EPA Report, at 7-8. EPA further concluded:

21 “Although coal combustion waste leachate has the potential to migrate
22 from the disposal area, the actual potential for exposure of human and
23 ecological populations is likely to be limited. Because utility plants
24 need a source of water to operate, most of the disposal sites are located
25 quite close to surface water. Fifty eight percent of the 100 sample sites

1 were within 500 meters of surface water. It is not common for drinking
2 water wells to be located between the disposal site and the nearest
3 downgradient surface water body. The effect of this proximity to
4 surface water is that only 34 percent of the sampled sites had drinking
5 water intakes within five kilometers. Furthermore, the flow of the
6 surface water will tend to dilute the concentrations of trace metals to
7 levels that satisfy drinking water standards.”

8 *Id.* at 5-96 – 5-97.

9 EPA also did not conclude that industry management practices at the time
10 were improper or that overhauling CCR management practices was warranted.
11 “EPAs tentative conclusion is that current waste management practices appear
12 to be adequate for protection of human health and the environment” *Id.* at 7-
13 11. The EPA acknowledged that there may be potential risks associated with
14 CCR management practices, but that those potential risks did not justify the
15 potential costs of requiring CCR to be managed differently, including
16 retrofitting existing impoundments with liners.

17 1993 EPA Regulatory Determination

18 Building upon the findings, conclusions, and recommendations in the 1988
19 EPA Report, the EPA published “Part 1 Regulatory Determination” in 1993 as
20 required by the Bevill Amendment. 58 Fed. Reg. 42466 (Aug. 9, 1993)
21 (“1993 EPA Determination”). As it did in the 1988 EPA Report, the EPA
22 determined that CCR was not hazardous waste under RCRA and further
23 regulation was not warranted. As part of its determination, EPA addressed the
24 specific question of whether the industry should eliminate impoundments
25 altogether:

1 One commenter felt that there is the potential for groundwater
2 degradation from these coal combustion residues as a result of their
3 leaching potential, although regulation of these wastes under Subtitle
4 C is not appropriate. The inherent high permeability of materials
5 landfilled without the benefit of stabilization or liners could allow a
6 large volume of percolation to occur, resulting in potential
7 groundwater contamination. The commenter urged the Agency to
8 eliminate questionable coal combustion waste impoundments and
9 suggested that regulations similar to 40 CFR part 258 (requirements
10 for municipal solid waste landfills) would be appropriate for FFC
11 waste management units.

12 While the Agency believes that design and operating requirements similar
13 to part 258 may be appropriate for some FFC waste management units,
14 the risks posed by FFC waste management are site-specific. Although
15 groundwater contamination has occurred at certain coal combustion waste
16 sites, *contamination has been due to a limited number of constituents,*
17 *which are likely to attenuate and dilute to safe levels before reaching an*
18 *exposure point.* This is in contrast to municipal solid waste landfills that
19 are subject to 40 CFR part 258. The leachate at these sites often contains
20 elevated levels of a wide range of toxic pollutants, and numerous
21 damages have been observed. Therefore, the Agency believes that the
22 level of protection provided by the part 258 criteria may not need to be
23 universally applied to all FFC waste management units. *It is therefore*
24 *appropriate to allow the States to retain the flexibility to tailor*
25 *requirements to site-specific or regional factors rather than establish*
26 *broad Federal minimum requirements.*

27 *Id.* at *42481 (emphasis added).

28 Due to the generally limited environmental impacts from CCR disposal, EPA
29 determined that imposing significant operational controls on utilities for CCR
30 management, including requiring liners or standardized monitoring
31 requirements, were unnecessary:

32 A Subtitle C system would require coal combustion units to obtain a
33 Subtitle C permit (which would unnecessarily duplicate existing State
34 requirements) and would establish a series of waste unit design and
35 operating requirements for these wastes, which would generally be in
36 excess of requirements to protect human health and the environment.
37 For example, *if such wastes were placed in the Subtitle C universe, all*
38 *ash disposal units would be required to meet specific liner and*
39 *monitoring requirements.* Since FFC sites vary widely in terms of
40 topographical, geological, climatological, and hydrological

1 characteristics (e.g., depth to groundwater, annual rainfall, distance to
2 drinking water sources, soil type) and the wastes' potential to leach
3 into the groundwater and travel to exposure points is linked to such
4 factors, *it is more appropriate for individual States to have the*
5 *flexibility necessary to tailor specific controls to the site or region*
6 *specific risks posed by these wastes.*

7 *Id.* at *42477.

8 EPA concluded “that the potential for damage from these wastes is most often
9 determined by site- or region-specific factors and that the current State
10 approach to regulation is thus appropriate.” *Id.*

11 1999 Report to Congress

12 Six years later, the EPA again concluded that CCR should not be regulated as
13 hazardous waste:

14 The Agency has tentatively concluded that the comanaged wastes
15 generated at coal-fired utilities, including petroleum coke combustion
16 wastes as well as wastes from other fuels co-fired with coal, generally
17 present a low inherent toxicity, are seldom characteristically
18 hazardous, and generally do not present a risk to human health and the
19 environment. Current management practices and trends and existing
20 state and federal authorities appear adequate for protection of human
21 health and the environment. State programs increasingly require more
22 sophisticated environmental controls, and tend to focus on utility waste
23 management due to the high waste volumes. For example, the
24 frequency of environmental inspections at utilities is among the
25 highest of all the major industry sectors in the United States.

26 *Report to Congress on Wastes from the Combustion of Fossil Fuels*, EPA, at
27 3-5 (Mar. 1999) (“1999 EPA Report”).

28 EPA also determined that outright elimination of large impoundments was not
29 warranted:

30 *[T]he Agency was unable to identify any feasible risk mitigation*
31 *practices for these very large impoundments other than to continue to*

1 rely on the Clean Water Act new source standards to move the
2 industry toward dry handling of the coal combustion wastes. (Dry
3 handling methods do not involve surface impoundments and therefore
4 do not present the ecological risks identified for impoundments.)
5 Outright elimination of the large impoundments would impose
6 extremely high costs on the operators. The benefits to be derived from
7 elimination of impoundments are uncertain due to unavailability of
8 information on actual receptor exposure rates and impacts as described
9 above.

10 *Id.* at 3-6. As of 1999, the EPA could not identify any particular actions the
11 Company or industry should have taken to mitigate the risks from existing
12 large surface impoundments.

13 2000 Regulatory Determination

14 Following its 1999 Report to Congress, EPA issued another regulatory
15 determination in 2000 affirming its decision not to regulate CCR under
16 Subtitle C of RCRA. Company Rebuttal Exhibit JEW-4 (65 Fed. Reg. 32214
17 (May 22, 2000)) ("2000 EPA Determination"). EPA decided to retain the
18 exemption for CCR disposed in surface impoundments and landfills, relying
19 instead on state regulators because of the substantial improvement in state
20 programs to advance CCR management practices and mitigate risk. For
21 example, EPA found that:

22 [...] for landfills, more than 40 states have the authority to require
23 permits, siting restrictions, liners, leachate collection, groundwater
24 monitoring, closure controls, and cover/dust controls. Forty-three
25 states can require liners and 46 can require groundwater monitoring
26 compared to 11 and 28 states, respectively, in the 1980's. For surface
27 impoundments, more than 30 states have authority to require permits,
28 siting restrictions, liners, groundwater monitoring, and closure control;
29 33 can require leachate collection (there is no earlier comparison data
30 for surface impoundments). Forty-five states can require liners and 44
31 can require groundwater monitoring for impoundments.

1 *Id.*, at *32228. As discussed in more depth below, both Virginia and West
2 Virginia were on the leading edge of implementing and improving
3 environmental controls for CCR landfills and impoundments. However, not
4 all states had implemented the same risk mitigation controls as Virginia and
5 West Virginia and that is why EPA, for the first time, concluded that further
6 regulation under Subtitle D for CCR disposed in landfills and surface
7 impoundments would be needed to improve management practices in certain
8 states.

9 The CCR Rule

10 An attempt to increase regulation of CCR under RCRA did not come until
11 June 2010, when EPA proposed the draft CCR Rule, which coincided with the
12 Tennessee Valley Authority coal ash dam failure. The proposed CCR Rule
13 included three possible regulatory options, two of which would have regulated
14 CCR under RCRA Subtitle D and one of which would have regulated CCR
15 under RCRA Subtitle C. The regulatory implications of those options ranged
16 from allowing the continued operation of unlined impoundments with
17 additional monitoring to complete excavation of all impoundments. Many
18 state environmental regulators, including VA DEQ, questioned whether
19 further federal regulation of CCR was necessary and argued that regulation
20 should be left to the states. This sentiment was echoed by the Public Staff in
21 an August 2009 letter to the EPA:

22 As we understand it, the EPA is also evaluating a requirement for the
23 early retirement of active surface impoundments used by electric
24 utilities to manage CCBs. We understand that, to date, every State
25 environmental agency that has weighed in on the issue (approximately

1 twenty State agencies) has opposed regulating CCBs as hazardous
2 waste. The agencies have instead taken the position that the best
3 management option for regulating CCBs is as non-hazardous waste
4 under RCRA Subtitle D in order to both preserve and expand the
5 beneficial use of CCBs and because the States have the regulatory
6 infrastructure in place to ensure the safe management of these
7 materials. We believe that this is certainly the case in North Carolina.²

8 Therefore, as of 2010 and until the final CCR Rule was signed in late 2014,
9 the regulatory landscape for CCR was still very much in a state of flux.

10 **Q. How should DENC's historical CCR management practices be evaluated**
11 **in the context of the regulatory history discussed above?**

12 A. I believe that DENC responded reasonably and appropriately to evolutions in
13 industry practices and regulatory approaches for CCR management. From the
14 passage of the Clean Water Act ("CWA") in 1972 and the RCRA in 1976
15 until enactment of the CCR Rule in 2015, EPA has consistently deferred to
16 state environmental agencies to regulate CCR. That is because, until the CCR
17 Rule, a one-size-fits-all federal regulatory approach was not deemed necessary
18 to address region-specific conditions and risks. This deference is also
19 consistent with EPA's ability to delegate primary permitting and oversight
20 authority of its programs to states.³

² https://obamawhitehouse.archives.gov/sites/default/files/omb/assets/oira_2050/2050_102809-5.pdf.

³ EPA authorized Virginia and West Virginia's NPDES permitting program in 1975 and 1982, respectively: <https://www.epa.gov/npdes/npdes-state-program-information>.

1 **Q. Please describe the regulatory scheme in Virginia with respect to**
2 **groundwater that was applicable to DENC's CCR impoundments and**
3 **landfills.**

4 A. Virginia first adopted groundwater regulations in 1977. From 1977 until
5 1998, VA DEQ's regional offices evaluated groundwater risks at CCR
6 facilities through requirements placed in the Company's VPDES, Virginia
7 Pollution Abatement ("VPA") permits, and solid waste permits. Additionally,
8 local governments could also require groundwater monitoring through
9 conditional use permits issued for certain CCR storage facilities. As of 1988,
10 Virginia had authority to require groundwater monitoring for surface
11 impoundments.

12 In 1998, VA DEQ developed guidelines to promote consistent standards
13 amongst its six regions for "1) when to require ground water monitoring, 2)
14 monitoring well installation, 3) parameters to consider for monitoring, 4)
15 proper sampling and analytical methods, 5) review of submitted data, 6) risk
16 assessment, and 7) remediation." Company Rebuttal Exhibit JEW-5 (VA
17 DEQ Guidance Memorandum No. 98-2010, at 1-2 (Sept. 30, 1998)) ("1998
18 VA DEQ Guidance").

19 The 1998 VA DEQ Guidance, consistent with the prior practice of the
20 divisions, also delegated discretion to the permit writer – a member of VA
21 DEQ staff with specialized expertise – to determine whether a groundwater
22 monitoring plan ("GWMP") would be required and to determine the scope of
23 the GWMP. Where a GWMP was deemed necessary, VA DEQ adopted a

1 phased approach. The first phase would typically involve a small number of
2 wells (minimum of one upgradient and two downgradient). If potential
3 groundwater impacts were detected during the first phase, a second phase with
4 additional monitoring wells may have been required. *Id.* at 7-8.

5 Based on the groundwater monitoring data received (i.e. constituents, detected
6 levels, extent of plume, proximity of plume to receptors), VA DEQ would
7 then determine whether a risk assessment was necessary. If VA DEQ
8 identified a potential risk, then it could require remedial action.

9 VA DEQ had authority to require a broad range of remedial actions to address
10 potential groundwater impacts from existing and new impoundments,
11 including requiring closure, excavation, or lining of impoundments. *Id.* at 27-
12 28. However, VA DEQ also determined that any required remedial actions
13 should be commensurate with the risks posed by the potential impacts. *Id.*
14 For example, “[d]epending on the pollutants and receptors, leaving the ground
15 water alone at that point may be all that is necessary (decompose naturally).”
16 *Id.*

17 **Q. How did Virginia’s regulatory programs impact DENC’s operations in**
18 **Virginia?**

19 **A.** By 1988, all of DENC’s stations, with the exception of Bremo, were required
20 to monitor groundwater. By 2000, all of DENC’s stations in Virginia were
21 monitoring groundwater.

1 VA DEQ's monitoring requirements applied to DENC's CCR impoundments
2 and landfills. By 2000, DENC was monitoring groundwater at all of its active
3 CCR impoundments under VPDES permits, with the exception of the West
4 Pond at Bremo. The West Pond has always contained a small volume of
5 CCR, which was periodically dredged and placed in the North Pond, which
6 was undergoing groundwater monitoring. The inactive impoundments at
7 Possum Point (Ponds ABC) and Bremo (East Ash Pond) were not subject to
8 groundwater monitoring. Those impoundments had been closed in the 1960s
9 and 1980s, respectively.

10 DENC began monitoring groundwater at all of its landfills at or near the time
11 they were constructed pursuant to its solid waste permits.

12 **Q. Please describe the regulatory scheme in West Virginia with respect to**
13 **groundwater that was applicable to DENC's CCR operations at Mt.**
14 **Storm.**

15 A. WV DEP and its predecessor agency, the Division of Energy, were
16 responsible for overseeing the State's solid waste program applicable to CCR
17 storage. As of 1987, all CCR disposal sites in West Virginia were required to
18 "meet leachate, waste confinement, and aesthetic standards. There [were]
19 specific requirements concerning ground-water monitoring and final cover."
20 Company Rebuttal Exhibit JEW-6 (1988 EPA Report, Appendix C, at C-6 –
21 C-7).

1 **Q. How did West Virginia's regulatory programs impact DENC's operations**
2 **in West Virginia?**

3 A. Groundwater monitoring at Mt. Storm began after the issuance of a NPDES
4 permit to construct Phase A of the now Phase A and B landfill. This permit
5 was issued in 1986 and included groundwater monitoring as a component of
6 the construction and long term monitoring during subsequent operation.
7 Groundwater monitoring at Mt. Storm began in 1987. The low volume waste
8 ponds area was also regulated by a WV issued NPDES permit, but did not
9 require groundwater monitoring. Monitoring at these ponds did not begin
10 until the passage of the CCR Rule and with it the first requirement to monitor
11 groundwater surrounding these ponds. As demonstrated in the 40 semiannual
12 groundwater monitoring reports provided to Public Staff for Mt. Storm, an
13 exceedance was not managed as a violation. An exceedance, much like in
14 Virginia, simply required DENC take additional steps as identified in the
15 NPDES permit. Those additional steps are outlined in the same semiannual
16 groundwater reports provided to the Public Staff and included increased
17 frequency of sampling, additional parameters, and assessments to determine if
18 additional actions were required. Based on those assessments and subsequent
19 NPDES permit reissuance, no further corrective actions were required.

1 **Q. How do you respond to the Public Staff's contention that "DENC and**
2 **other utilities should have installed comprehensive groundwater**
3 **monitoring well networks to determine if the risk was materializing at**
4 **their ash ponds"?**

5 A. I disagree with Mr. Lucas' insinuation that the Company did not do enough to
6 evaluate the potential groundwater impacts of CCR impoundments. As Mr.
7 Lucas notes in his testimony, the Company began groundwater monitoring in
8 1983, which expanded greatly over time. Mr. Lucas does not specify when or
9 to what extent the Company should have taken further action to monitor
10 groundwater.

11 Mr. Lucas is attempting to establish an arbitrary, hindsight-based standard that
12 is not based on any reasonable principles or criteria. The Company would
13 have no way of knowing whether it was complying with that standard since it
14 is based on the subjective judgment of Mr. Lucas. An applicable and
15 enforceable standard, at a minimum, would need to address the following
16 criteria:

- 17 • How would one determine which ponds would be subject to
18 monitoring?
- 19 • How many monitoring wells would need to be installed?
- 20 • How many background wells would need to be installed?
- 21 • Should the installation of wells be tied to the existence of receptors in
22 the vicinity of the CCR facility?
- 23 • Where would the wells need to be installed?

- 1 • At what depth would the wells be installed?
- 2 • What constituents would be monitored?
- 3 • When should each well have been installed?
- 4 • How often should the wells be tested?
- 5 • How long would the Company be required to continue monitoring?
- 6 • Who would determine the sufficiency of the monitoring program?
- 7 • What is an acceptable cost for the monitoring program?

8 These criteria are crucial to determining how monitoring should be applied, as
9 the Commission has previously noted:

10 Determining the number and placement of monitoring wells, not an
11 inexpensive endeavor, is an inexact science. The prevalent and cost-
12 effective process is to install monitoring wells iteratively to best
13 identify harmful groundwater contamination. Evidence of excessive
14 constituent levels up gradient of impoundments tells nothing about
15 impoundment contamination but is necessary to identify naturally
16 occurring constituents that may or may not exist down gradient.
17 Unlike synthetic contaminants like dry cleaning fluid or nuclear waste
18 where evidence of its presence in groundwater can be tied to a source
19 of pollution, all the potentially harmful elements from coal ash occur
20 naturally in the ambient environment. Underground water flows may
21 dissipate excessive levels of CCR contaminants through natural
22 attenuation to those below standard thresholds. There may be no
23 receptors in the vicinity of the impoundment.

24 *Order Accepting Stipulation, Deciding Contested Issues, and Requiring*
25 *Revenue Reduction*, Docket No. E-7, Sub 1146, at 264 (June 22, 2018) (“*DEC*
26 *Order*”).

27 Additionally, Mr. Lucas does not explain why VA DEQ and WV DEP’s
28 judgment regarding the necessity for and scope of groundwater monitoring
29 should be ignored. As late as 1998, VA DEQ’s position was that extensive

1 monitoring networks were not an appropriate starting point for assessing
2 potential groundwater impacts at surface impoundments. As of 2015, when
3 the CCR Rule was published, the 1998 VA DEQ Guidance was still in effect.
4 Since DENC's environmental regulators did not believe that installing
5 extensive monitoring networks was necessary or appropriate for all sites, it is
6 reasonable to question whether DENC's economic regulators (the
7 Commission and SCC) would have deemed costs to install and monitor
8 unnecessary wells to be reasonable.

9 **Q. How did DENC and its environmental regulators utilize the groundwater**
10 **data the Company provided to mitigate risks?**

11 A. In Virginia and West Virginia, DENC collected and submitted groundwater
12 data at the frequency established in its environmental permits. VA DEQ and
13 WV DEP then reviewed and analyzed the data. In the event of an exceedance,
14 the agencies then would evaluate the statistical significance of the exceedance
15 to determine if it could be attributed to DENC's CCR storage areas. If a
16 correlation was suspected, then the agencies, based on their expertise and
17 professional judgment, could require the Company to take a variety of actions.
18 At DENC's facilities, environmental regulators have required anything from
19 an increasing the frequency of sampling, increasing the number of
20 constituents sampled, installing new wells, or preparing site characterization
21 study that would evaluate risks. In all cases, DENC complied with the
22 additional actions required by its environmental regulators to mitigate risks
23 and protect the environment. Notably, for all of DENC's surface

1 impoundments, environmental regulators reissued NPDES permits and solid
2 waste permits allowing the Company to continue to dispose and store CCR in
3 those impoundments. Had environmental regulators determined that DENC's
4 CCR storage areas posed a threat to human health or the environment, they
5 would not have continued to renew operating permits and more corrective
6 actions would have been required.

7 **Q. What are the implications of the Public Staff not using the prudence**
8 **standard?**

9 A. Mr. Lucas' testimony does not identify any specific instances of imprudence
10 on behalf of the Company with respect to its historical CCR management
11 practices. Other than not installing "comprehensive groundwater monitoring
12 networks," which the Public Staff did not determine was imprudence, the
13 Public Staff identifies no different action that it believes the Company should
14 have taken with respect to overall management of its CCR facilities. The
15 Public Staff also cannot demonstrate how groundwater monitoring beyond
16 what was required by VA DEQ or WV DEP should or would have altered the
17 Company's decisions. Even if the Public Staff could identify alternative
18 actions the Company should have taken in response to additional monitoring,
19 which it cannot, the Public Staff cannot show how those alternative actions
20 would have impacted the present-day costs that the Company is seeking to
21 recover in this case. If the Public Staff is going to argue that the Company's
22 historical management practices justify a disallowance of present-day costs, it
23 must also demonstrate how those practices have directly and quantitatively

1 impacted present-day costs.⁴ Mr. Lucas' testimony does not provide this
2 necessary analysis.

3 For the reasons discussed above, the Company's compliance with VA DEQ
4 and WV DEP requirements regarding groundwater monitoring was reasonable
5 and prudent.

6 **Q. How do you respond to the Public Staff's contention that DENC, as an**
7 **industry leader, was at least partly responsible for establishing the**
8 **industry standard it cites to justify its past management practices?**

9 A. I agree that DENC is one of many regulated utilities in the country that has
10 generated electricity for its customers by burning coal and that it has disposed
11 of CCR through various means over time consistent within industry standards
12 and practice, including the use of surface impoundments and landfills.⁵ Mr.
13 Lucas does not define what the industry standard should have been. More
14 importantly, as he does not argue that DENC's compliance with the industry
15 standard and applicable laws was unreasonable, imprudent, or irresponsible,
16 his contention here is not relevant.

17 Mr. Lucas seems to be suggesting that DENC should have moved well ahead
18 of accepted science, regulatory requirements, and industry practice and began
19 taking unspecified measures to prevent any and all groundwater quality issues,

⁴ See 1988 DEP Rate Order, at 15.

⁵ Mr. Lucas' characterization of DENC as a large generator of CCR is misleading. As of 1987, Virginia, where most of DENC's CCR is located, was not even one of the seventeen highest coal-burning states in the country. See Company Rebuttal Exhibit JEW-6, at Appendix C. DENC has only one coal-fired plant in West Virginia.

1 without regard to the cost of those measures, how those measures would have
2 impacted the Company's ability to provide reliable and uninterrupted electric
3 service, whether sufficient and proven technology existed at the time to
4 address the conditions at each site, or whether groundwater quality issues
5 posed any risk to human health or the environment.

6 **C. Alleged Evidence of Environmental Degradation**

7 **Q. How do you respond to Mr. Lucas' testimony regarding alleged**
8 **environmental degradation at Possum Point, Chesapeake, Chesterfield,**
9 **and Yorktown?**

10 **A.** Mr. Lucas suggests that environmental reports from Possum Point,
11 Chesapeake, Chesterfield, and Yorktown demonstrate that the Company was
12 or should have been aware of degradation of groundwater quality resulting
13 from its CCR disposal practices and did not adequately mitigate risks. I
14 disagree with this assertion.

15 The existence of exceedances does not mean that the Company did not
16 mitigate risks. Mr. Lucas is wrongly conflating impacts (exceedances) with
17 harm (risks). Virginia's groundwater regulations and remediation
18 requirements are focused on mitigating harm, not impacts. As the reports and
19 VA DEQ's actions indicate, impacts alone, without any sufficient risk of
20 harm, did not justify further action beyond continued monitoring. None of the
21 reports cited by Mr. Lucas indicated any risk to offsite human health or
22 ecological receptors. Nor do they demonstrate mismanagement by the
23 Company. When VA DEQ did require follow-up measures, DENC took

1 appropriate action at each site. This is consistent with VA DEQ's
2 longstanding approach to remediation, which is tied to risk analysis. *See*
3 Company Rebuttal Exhibit JEW-5 at 25 ("...the risk assessment ultimately
4 determines whether some measure of remediation needs to be completed.").

5 The Public Staff also accuses the Company of violating the 1989 Special
6 Order at Possum Point, citing a lack of documentation showing otherwise.
7 Lucas Exhibit 4 proves that the Public Staff is wrong. Lucas Exhibit 4 is not
8 from 1989, as the Public Staff suggests.⁶ It is a letter that the Company
9 received on May 14, 1991 from the State Water Control Board ("SWCB")
10 with the subject line "Cancellation of Consent Special Order – Possum Point."

11 The letter further states:

12 Based on a review of regional and enforcement files in the above
13 referenced matter, it appears that the requirements of the above
14 referenced consent special order (hereinafter the "Order"), issued on
15 September 12, 1989 have either been substantially fulfilled, or, if not
16 fulfilled, incorporated into the newly reissued VPDES permit for the
17 Possum Point facility.

18 Lucas Exhibit 4. After receiving the Public Staff's testimony, the Company
19 requested documentation regarding the special order from VA DEQ. The
20 Company received a document confirming that the SWCB cancelled the
21 special order because the Company had met its compliance obligations.
22 Company Rebuttal Exhibit JEW-7 (Cancellation of Special Order). The
23 Public Staff posited Lucas Exhibit 4 as evidence that the Company did not
24 comply with the special order. It actually shows the opposite. The

⁶ The special order is an attachment to the letter.

1 Company's response to the 1989 Special Order was clearly not unreasonable,
2 otherwise the SWCB would not have cancelled the special order.

3 The reports cited for Chesapeake and Chesterfield indicate that the Company
4 was diligently monitoring groundwater to assess whether mitigation measures
5 were necessary. Where corrective action has been required, the Company has
6 complied with those directives. Regarding the Yorktown report, the Company
7 ultimately determined, and VA DEQ accepted, that the chloroform was
8 attributable to off-site conditions, not CCR. Again, the Public Staff's citation
9 to the Yorktown report as an indication of groundwater exceedances due to
10 CCR is misleading.

11 **Q. How do you respond to Mr. Lucas' discussion of exceedances?**

12 A. Exceedances alone are not evidence of mismanagement, wrongdoing, or
13 environmental harm. The existence of past and present groundwater
14 exceedances reflects historical construction practices and the evolution of
15 groundwater assessment and corrective action under modern laws. The
16 Company has taken every action required by VA DEQ and WV DEP pursuant
17 to the applicable groundwater rules to address groundwater impacts as they
18 have been identified. Further, in studying ash basins and developing the CCR
19 Rule, the EPA was aware that the design of ash basins had resulted in
20 groundwater concerns throughout the industry; however, EPA determined that
21 immediately closing basins, which would require shutting down operating
22 coal plants, would be more harmful to human health and the environment than

1 taking a measured approach.⁷ As discussed above, DENC's regulators
2 focused on whether the exceedances were causing, or had the potential to
3 cause harm to, any on- or off-site receptors to determine whether mitigation
4 measures were necessary. The existence of an exceedance of applicable
5 standards at a particular location is not evidence of actual or potential harm;
6 rather, it is a data point that informs whether and to what extent further study
7 is required to assess potential risk. This is a complex and highly technical
8 task that takes into account many different factors.

9 Virginia and West Virginia's groundwater regulations are not intended to be
10 punitive or to determine culpability. These regulations should not be
11 misapplied in this case to penalize the Company.

12 **Q. Are the Battlefield Golf Club site and Chisman Creek site relevant to this**
13 **case?**

14 A. No. The purpose of my direct testimony was to explain why DENC should be
15 allowed to recover its reasonably and prudently incurred costs to comply with
16 the CCR Rule and state environmental regulations pertaining to CCR
17 management *at its facilities*. The Battlefield Golf Club ("Battlefield") is not
18 owned by DENC. At the time the contamination occurred at Chisman Creek,
19 DENC did not own or control the disposal pits. Neither site is subject to the
20 CCR Rule. The Public Staff does not argue that the environmental conditions

⁷ See 80 Fed. Reg. 21302, 21423 (Apr. 17, 2015) (recognizing that "the risks to the wider community from the disruption of power over the short-term outweigh the risks associated with the increased groundwater contamination from continued use of leaking or improperly sited CCR units").

1 at Battlefield or Chisman Creek caused the CCR Rule or any costs in this
2 case. Lucas Direct T. at 77.

3 The Public Staff instead appears to cite Battlefield and Chisman Creek for the
4 purpose of suggesting that the environmental investigations at those sites are
5 somehow connected to DENC's CCR facilities. That conclusion is wrong and
6 is not supported by the evidence.

7 Notably, VA DEQ objected to such an inference in its comments to the draft
8 CCR Rule regarding Battlefield:

9 As EPA's own conclusions do not indicate harm from this site,
10 Virginia DEQ respectfully disagrees with EPA's presentation of this
11 issue in the proposal and requests that the situation of the Battlefield
12 Golf Club not be used to mistakenly assume problems with Virginia's
13 CCR management program when in fact EPA's own data and
14 conclusions do not support that assumption. Virginia DEQ is very
15 proud of the success of its beneficial use program for CCRs and other
16 solid wastes, and has worked diligently to ensure that success while
17 protecting human health and the environment.

18 Company Rebuttal Exhibit JEW-8 (VA DEQ Comments on EPA Proposed
19 Rule, at 21 (Nov. 18, 2010)).

20 Like Battlefield, the issues at Chisman Creek are not evidence of problems
21 with DENC's CCR management practices. From 1957 to 1974, the Company
22 hired contractors to lawfully dispose of CCR and petroleum coke byproducts
23 from Yorktown in abandoned sand and gravel pits at a site in York County
24 known as Chisman Creek. These sand and gravel pits at Chisman Creek were
25 not surface impoundments or landfills like the Company operated at its
26 stations. The contractors owned the byproducts, they owned or controlled the

1 disposal areas, and the contractors were responsible for disposing of the
2 byproducts in compliance with relevant federal and state standards.

3 Due to groundwater contamination, primarily attributable to constituents
4 associated with petroleum coke (i.e. vanadium), EPA entered the site into the
5 Superfund Program. The contractors were identified as responsible parties.
6 The Superfund Program, however, has a strict liability standard for
7 determining responsible parties that is not dependent on fault, negligence, or
8 mismanagement. Because it generated the byproducts disposed at Chisman
9 Creek, the Company was determined to be a responsible party. When the
10 contractors were unable to address the issues at the site, the Company
11 voluntarily cooperated with EPA, VA DEQ, and the local government
12 throughout the remediation process, even earning the Environmental
13 Achievement Award for its efforts.⁸

14 **Q. Is litigation against the Company relevant to this case?**

15 A. No. Additionally, it is unclear from Mr. Lucas' testimony why he cited the
16 litigation. He does not argue that the existence of those cases are evidence of
17 wrongdoing, prior mismanagement, or harm to the environment.

18 For example, the Public Staff references a case involving the Sierra Club and
19 cites to findings in court orders that arsenic was reaching surface waters and

⁸ Information related to Chisman Creek is publicly available at EPA's website:
<https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0302756>

A helpful summary document about Chisman Creek is available at:
<https://semspub.epa.gov/work/HQ/176439.pdf>

1 groundwater. Once again, the Public Staff's testimony is misleading. The
2 Public Staff omitted the trial court's conclusion about the environmental
3 effects of the arsenic:

4 As discussed above, *no evidence shows that any injury, much less an*
5 *irreparable one, has occurred to health or the environment.* In contrast,
6 the hardships of the proposed injunction on Dominion are enormous,
7 given the absence of any evidence of the amount of arsenic going into the
8 water. The proposed injunction will entail years of effort costing
9 hundreds of millions of dollars, for very little return. The public interest
10 will not be served. Dominion receives income through rates charged to
11 its customers; those rates would likely rise to pay for the Sierra Club's
12 proposal. Moreover, the Sierra Club has not even attempted to itemize the
13 collateral environmental effects of moving this much coal ash.

14 *Sierra Club v. Virginia Elec. & Power Co.*, 247 F. Supp. 3d 753, 765 (E.D.
15 Va. 2017), *appeal dismissed*, No. 17-1537, 2017 WL 5068149 (4th Cir. July
16 13, 2017), and *aff'd in part, rev'd in part*, 903 F.3d 403 (4th Cir. 2018).
17 Further, as the court recognized, the Company's historical monitoring results
18 for surface water around the Chesapeake site all have been well below
19 applicable standards. The Company performed additional surface water,
20 sediment, and biological monitoring as required by the district court's original
21 order, all of which supported the court's finding of a lack of harm. This data
22 was provided to the Public Staff during discovery.

23 **D. Discovery Issues**

24 **Q. The Public Staff accuses the Company of not being forthcoming during**
25 **discovery and withholding documents. How do you respond?**

26 A. These accusations are false. I, along with my staff and many others within the
27 Company, worked tirelessly and in good faith to locate, collect, and then
28 produce information and documents spanning almost four decades of the

1 Company's operations. As the Company and the Public Staff were attempting
2 to work cooperatively, likewise, the Company did not object to the numerous
3 overly broad and unduly burdensome requests that the Public Staff made. I
4 estimate that we spent over 250 hours searching for and collecting
5 information, culminating in the production of decades' worth of CCR-related
6 documents to the Public Staff. While now claiming that the Company's
7 discovery responses and production were incomplete, the Public Staff never
8 filed a motion to compel.

9 Despite the Company's efforts, the Public Staff complains that it has
10 "attempted without great success to obtain from the Company all available
11 sources of historical information." The Company has produced voluminous
12 historical materials that it has available, and the Public Staff has also obtained
13 additional historical records from state regulators. There is no reason why, in
14 the absence of any legal requirement or business reason to do so, the
15 Company should have retained four decades' worth of CCR permitting
16 records. Certainly in the 1980s, the Company could not have foreseen that the
17 Public Staff would be, in the year 2019, scrutinizing the Company's historical
18 CCR management practices.

19 The Public Staff accuses the Company of withholding information from the
20 Public Staff in response to a discovery request regarding seeps at DENC's
21 CCR basins. *See* Lucas Direct T. at 66. This accusation is misleading. Mr.
22 Lucas' testimony references a 2018 seep mitigation report from Chesterfield
23 to support his accusation. *See* Lucas Exhibit 11. However, the seep

1 referenced in the mitigation plan has nothing to do with DENC's CCR
2 management practices or its impoundments. The seep originated from the
3 coal pile, not the CCR impoundments. Lucas Exhibit 11 also includes a letter
4 identifying VA DEQ of a potential seep near the Upper Ash Pond at
5 Chesterfield; however, this observed condition was not a channelized flow of
6 water emanating from the berm of the impoundment berm. For the reasons,
7 discussed above, the Company stands by its discovery responses.

8 Similarly, the Public Staff insinuates that the Company withheld information
9 regarding regulatory findings of non-compliance at Chesterfield. The Public
10 Staff refers to documents that it received from VA DEQ (Lucas Exhibit 10) to
11 prove this point. Once again, the Public Staff's accusations are false. The
12 Public Staff's discovery requests relate to DENC's CCR storage areas (i.e.
13 impoundments and landfills). The warning letters in Lucas Exhibit 10 are not
14 administrative findings of non-compliance for DENC's CCR storage areas.
15 The letters relate to the onsite coal pile and a temporary pipe failure that
16 occurred before CCR entered the impoundment. Therefore, not only is Lucas
17 Exhibit 10 irrelevant, it is also misleading.

18 Lastly, the Public Staff accuses the Company of withholding information
19 about the Chisman Creek Site ("Chisman Creek"). The Company reasonably
20 interpreted the Public Staff's overbroad requests to relate to the CCR disposal
21 locations at the Company's generating facilities, which are subject to the CCR
22 Rule and state CCR regulations and are the focus of the costs discussed in my
23 direct testimony. As discussed further below, Chisman Creek falls within the

1 EPA's Superfund Program and is not subject to the CCR Rule or state CCR
2 rules. Furthermore, Chisman Creek is a matter of public record and, from the
3 Company's and EPA's perspective, is an environmental stewardship success
4 story. If the Public Staff wanted information about Chisman Creek, the
5 Company would have been happy to direct the Public Staff to that
6 information.

7 The Public Staff's criticism of the discovery process simply distracts from the
8 purpose of this proceeding. The Public Staff used a similar tactic in Duke
9 Energy's rate cases. Ironically, though, Mr. Lucas complained that he could
10 not perform a prudence review because Duke Energy produced *too many*
11 documents. Tr. Vol. 19, p. 15 (E-2, Sub 1142).

12 **Q. The Public Staff claims to have inadequate information to evaluate the**
13 **Company's environmental compliance history. Do you agree?**

14 A. No. Throughout Mr. Lucas' testimony, he suggests that the lack of annual
15 groundwater reports and other documents created prior to 2000 somehow
16 limits the Public Staff's ability to understand DENC's compliance history.
17 Although the Company could not locate annual groundwater reports prior to
18 2000 (i.e., reports 20 years old and older), DENC did provide the Public Staff
19 with a spreadsheet showing all groundwater monitoring results going back to
20 the beginning of monitoring for each site. As these monitoring results were
21 required by DENC's state environmental permits, each of the almost 300,000
22 individual results was provided to VA DEQ or WV DEP. While we do not

1 know precisely how VA DEQ and WV DEP responded to each sample prior
2 to 1999, we do know the following:

- 3 • DENC's environmental regulators did not require the Company to
4 retrofit its existing impoundments with liners;
- 5 • DENC's environmental regulators did not require the Company to
6 close its existing impoundments;
- 7 • DENC's environmental regulators did not require the Company to
8 excavate CCR from its existing impoundments;
- 9 • DENC's environmental regulators authorized the Company's
10 continued use of its existing impoundments;
- 11 • DENC's environmental regulators authorized the Company to
12 continue disposing of CCR in its existing impoundments; and
- 13 • DENC's environmental regulators, where potential groundwater
14 impacts were identified, required further monitoring, risk assessments,
15 or corrective action.

16 DENC's environmental regulators, with all of the data available to them, did
17 not see a sufficient environmental justification for requiring DENC to change
18 its CCR management practices. And, in the absence of any environmental
19 justification, the Company would not have been able to make an economic
20 justification to its shareholders and customers for overhauling its operations.
21 Further, it is questionable whether environmental regulators would have even
22 allowed the Company to line or excavate its impoundments at the time,

1 considering the potential environmental and health risks associated with those
2 activities.

3 The Public Staff's assertion that "missing" groundwater data may show
4 additional evidence of degradation is speculation, is not scientifically
5 supported, and is not consistent with the regulatory record. Moreover, it
6 would be speculation built on speculation to suggest that additional evidence
7 would have triggered any different action by environmental regulators or the
8 Company. Recent groundwater data collected under the CCR Rule actually
9 suggests otherwise.

10 The CCR Rule data confirms that there is no impact to public health from
11 DENC's CCR facilities. While the results do demonstrate local elevated
12 concentrations, those concentrations are within DENC's property boundaries.
13 Studies of DENC's facilities have consistently shown for each location with
14 elevated groundwater concentrations there are no impacts to private or public
15 water supply wells. Nothing in the results collected over the past two years
16 requires the removal of the CCR under the CCR Rule, nor would it have
17 required removal of CCR under existing state regulations and policy. The
18 decision to remove the ash from impoundments in Virginia, the costs for
19 which are not included in this case, was a policy decision by the General
20 Assembly and not one driven by existing legal or regulatory requirements.

1 **Q. Would filling in other purported information gaps that the Public Staff**
2 **references be relevant to its recommended equitable sharing**
3 **disallowance?**

4 A. No. Mr. Lucas did not perform a prudence review of the Company's
5 historical CCR management practices or costs. Therefore, he did not identify
6 any specific action the Company should have taken in the past to avoid its
7 alleged present-day culpability. That, as Mr. Lucas has admitted, would be
8 "impossible" and not helpful.

9 Nevertheless, Mr. Lucas complains that the Company did not produce
10 "proposals, cost-benefit analyses, budgets, environmental studies, engineering
11 plans, permit applications, and/or other planning documents" from when the
12 Company constructed CCR storage units in the 1980s. Lucas Direct T., at 58.
13 That information, he testifies, would "make it clearer what the Company knew
14 at the time and why they made the decisions they did." *Id.* While that
15 evidence might be relevant in a prudence review, the Public Staff did not
16 conduct a prudence review and had no intent to:

17 Somebody could have gone back and said what you should have done
18 back at a certain time. And that's — you could be talking about the
19 prudence, and I can't go back and — I can't go back and tell you
20 exactly what would have happened what you should have done at a
21 certain time. I'm not sure what good it would have done.

22 Tr. Vol. 19, p. 37 (E-2, Sub 1142). Therefore, the Public Staff's complaint
23 here is simply a distraction.

III. CONCLUSION

Q. What respective roles have DENC's regulators played in how CCR has been generated and managed over time?

A. Providing reliable and affordable electricity has historically depended upon using a combination of fuel sources, including coal. With coal-fired electric generation comes byproducts from burning coal – CCR.

DENC's and the industry's CCR management practices have always been transparent. In North Carolina, for example, from 1967 until 2009 the Commission was solely responsible for regulating electric utility dams in the state. Many of these dams were constructed to impound water used to generate coal-fired electricity, including sluice water containing CCR. During that time, the Commission allowed, and the Public Staff never objected to, the continued use of those dams and impoundments.

Q. Is it, therefore, appropriate for the Public Staff to recommend disallowances for costs of providing affordable and reliable electricity to its customers for decades?

A. No. I do not raise these points above to try to point the finger for the CCR costs that the Company has and will incur. I believe that acknowledging why CCR was generated in the first place is necessary to understand how we got to this point. As is evidenced by the Public Staff's testimony, it is much easier to judge the Company's decades-old actions in hindsight than it is to grapple with those decisions in the context and environment in which they were made.

1 It is also not productive, as it is impossible to construct different alternative
2 histories and realities to quantify how the Company's past conduct translates
3 to present costs.

4 The Company understands that its present and future CCR costs are
5 significant and, as reflected in my direct testimony, the Company has
6 minimized those costs to the degree that it can while still fully complying with
7 its new environmental compliance obligations. But the viability of the
8 Company depends on its ability to reliably recover unavoidable, yet prudently
9 and reasonably incurred, costs now and in the future. It is reasonable to
10 expect that environmental compliance costs for utilities will only increase in
11 the future. The Public Staff's position on CCR costs is shortsighted, and, if
12 adopted and then applied to future situations, would create an unpredictable
13 and unhealthy regulatory environment for utilities and their customers.

14 **Q. Does that conclude your rebuttal testimony?**

15 **A. Yes.**

1 Q. Mr. Williams, do you have a summary of your
2 rebuttal testimony?

3 A. Yes, I do.

4 Q. Would you please now present your summary for
5 the Commission?

6 A. Yes. Good morning, Chair Mitchell,
7 Commissioners. I am Jason Williams, former director
8 environmental services for Dominion Energy Services.
9 My rebuttal testimony responds to the testimony of
10 Public Staff witness Jay Lucas and Mike Maness related
11 to the Company's request to recover its compliance
12 expenses for managing CCR at its coal-fired generation
13 facilities. In my rebuttal testimony, I address the
14 scope of the issues in this case with respect to CCR
15 management costs, which is whether the Company's
16 management decisions and associated cost from
17 July 1, 2016, through June 30, 2019, to comply with the
18 federal CCR rule and state regulations were reasonable
19 and prudent.

20 The Public Staff has not alleged that DENC
21 has imprudently or unreasonably incurred a single cost
22 in this case related to its CCR impoundments or
23 landfills. I also respond to the Public Staff
24 criticisms of DENC's historical CCR management

1 practices and discuss the inappropriateness of the
2 Public Staff assuming the role of an after-the-fact
3 environmental regulator. I will also address the
4 Public Staff's criticism of my experience and
5 expertise. Additionally, I provide the historical and
6 regulatory context to properly frame the evolving body
7 of scientific knowledge regarding CCR disposal
8 knowledge -- disposal methods.

9 I describe how Virginia's and West Virginia's
10 environmental regulators have taken a responsible and
11 measured approach to regulating CCR and how the Company
12 has complied with the directives and guidance from its
13 regulators. I show that the Company has historically
14 managed its CCR responsibly and in compliance with
15 industry standards and with state and federal
16 regulations.

17 Additionally, I respond to the Public Staff's
18 accusation that the Company has not been responsive and
19 forthcoming during the discovery process. Relying on
20 that allegation, the Public Staff then baselessly
21 inferred that filling -- filling in the information gaps
22 would likely show problems with DENC's management
23 practices that would further justify a disallowance.
24 The Public Staff's characterization of the discovery

1 process is wrong and misleading.

2 Finally, I respond to the Public Staff's
3 testimony intended to cast the Company in a negative
4 light, including testimony about litigation against the
5 Company, purported incidences of noncompliance, the
6 Battlefield Golf Club and the Chisman Creek site.

7 As I explained in my rebuttal, the provisions
8 of reliable and affordable electricity has historically
9 depended upon using a combination of fuel sources,
10 including coal. With coal-fired electric generation
11 comes byproducts from burning coal, CCR.

12 DENC's and the industry's CCR management
13 practices have always been transparent. For decades,
14 the Public Staff has never objected to the continued
15 use of electric utility dams and impoundments that were
16 constructed to impound water and CCR as part of
17 generating coal-fired electricity. It is important to
18 acknowledge why CCR was generated in the first place in
19 order to understand how we came to where we are today.
20 The Public Staff's testimony shows that it is much
21 easier to judge the Company's decades-old actions and
22 hindsight than it is to grapple with those decisions in
23 the context they were made. It is also not productive,
24 as it is impossible to construct different alternative

1 histories and realities to quantify how the Company's
2 past conduct translates to present cost.

3 The Company understands that it presents --
4 that its present and future CCR costs are significant.
5 And as reflected in my direct testimony, the Company
6 has minimized those costs to the degree it can while
7 continuing to fully comply with new environmental
8 regulatory -- or environmental compliance obligations.

9 Again, no witness for the Public Staff has not
10 documented that any specific cost that the Company has
11 incurred from July 1, 2016, through June 30, 2019,
12 related to its CCR impoundments or landfills is
13 unreasonable or imprudent. This concludes my summary.
14 Thank you.

15 MR. SNUKALS: Mr. Williams is available
16 for cross examination.

17 CROSS EXAMINATION BY MS. CUMMINGS:

18 Q. Good morning, Mr. Williams.

19 A. Good morning.

20 Q. I'm Layla Cummings with the Public Staff.

21 Do you have with you a copy of the CCR rule
22 with the preamble from 2015?

23 A. I do not have a complete copy of the rule
24 with me.

1 Q. I wanted to start off by discussing some
2 provisions, and I can bring them to you, or we can just
3 agree.

4 Did the CCR rule preamble state that,
5 overall, the information from commenters and the EPA's
6 own review of state programs generally confirms EPA's
7 original conclusion that significant gaps remain in
8 state programs?

9 A. The preamble may state that, based on the
10 conclusion of what was over a 20-year evolution of
11 EPA's review of the coal ash practices.

12 Q. And Dominion, for all but one site, Mount
13 Storm, the state environmental regulator is the
14 Virginia Department of Environmental Quality?

15 A. Yes, that's correct. All facilities with the
16 exception of Mount Storm, are located in Virginia.

17 Q. And you used to be an employee of the
18 Virginia Department of Environmental Quality?

19 A. That's correct.

20 Q. In what years did you work there?

21 A. I worked there on two times. First was in --
22 beginning in 2004 time frame through 2007, and then
23 again returned to the Company -- or returned to DEQ
24 after being a regional waste manager for -- or

1 environmental manager for waste management would have
2 been in approximately 2009 through 2010 or '11.

3 Q. And what did you do between 2010 and 2011 in
4 working for the Company?

5 A. So -- well, not for the Company. I was
6 working for DEQ. So, you know, I'll kind of cover my
7 experience, in general, to answer your question.

8 Beginning of my career, nearly 20 years ago,
9 my first role was working for a consultant where I was
10 responsible for groundwater monitoring, groundwater
11 reports, statistical analysis, solid waste facilities
12 in Virginia, several of which were coal ash landfills.
13 And then from there I became an inspector for Virginia
14 DEQ. I was a hazardous waste and solid waste
15 inspector. I then was promoted to a team leader where
16 I oversaw all the Piedmont region's waste activities,
17 inspections, permitting, et cetera.

18 From there I went to work for Waste
19 Management where I was the environmental manager for 17
20 landfills, overall about 40 facilities throughout
21 Maryland, D.C., Virginia, Delaware, and West Virginia.
22 And then from there I went back to Virginia DEQ where I
23 was the statewide solid waste permit coordinator. So I
24 was responsible for the solid waste permitting within

1 the state of Virginia in establishing the standards
2 permit writers would use. Also reviewed what we call
3 the part A applications. I'm a professional geologist.
4 That's where most of the geology is discussed, in those
5 applications.

6 During that time, I also supported reg
7 writing activities where I was part of the rewrite of
8 the solid waste regulations in Virginia. Also in the
9 prior role, I was part of the group that reviewed and
10 was the technical lead for the state on reviewing the
11 coal combustion byproduct rules. They are basically
12 rules in Virginia that govern structural fills,
13 operations where you could build structural fillers
14 with CCR.

15 And from there I went to the Department of
16 Navy where I started off as a remedial project manager.
17 The program that ironically Mr. Lucas referenced
18 yesterday, it's the circle program at the installations
19 in North Carolina, and then expanded my role to
20 continental U.S. where I wrote the guidance policies
21 for five-year reviews and other evaluations of CERCLA
22 facilities, and then was with a consulting firm again
23 specializing in solid waste and landfills and including
24 coal ash landfills. And then most recently joined

1 Domi ni on Energy, where I have been responsi ble for the
2 last four years with CCR management. Hopefully that
3 covered the questi on.

4 Q. Yes, I thi nk so.

5 What year did you j oi n Domi ni on?

6 A. I j oi ned Domi ni on i n 2015.

7 Q. On page 33 of your testimony, you state
8 that --

9 A. Excuse me, is that rebuttal or direct?

10 Q. Yes, your rebuttal testimony.

11 A. Okay. Thank you. 33 you said?

12 Q. Uh-huh.

13 A. (Wi tness peruses document.)

14 Q. And I'm looking speci fi cally at line 17
15 through 19. You state that Vi rgi ni a's groundwater
16 regulations and remediation requirements are focused on
17 mitigating harm, not impacts, and as the reports on
18 Vi rgi ni a DEQ's actions indi cate, impacts alone, wi thout
19 any sufficient risk of harm, did not justi fy further
20 action beyond continued moni toring.

21 Is that accurate?

22 A. Yes, that's what my testimony states. As
23 mentioned in this testimony and in addi ti onal
24 information provi ded, all of these impoundments were

1 regulated by the Virginia version of NPDES permitting,
2 or their adoption, which is a NPDES permitting. And
3 one of the interesting things is that you must -- in
4 order to issue a permit, they must find that that
5 operation is in compliance with all the federal and
6 state regulations. And I know Public Staff put a lot
7 of focus on the antidegradation policy in Virginia,
8 which talks about natural-occurring levels, but having
9 worked at DEQ and having worked in Virginia groundwater
10 regulation for 18 years as I laid out, I know that that
11 is really a policy statement on the agency, and then
12 the agency uses its permitting mechanism to meet that
13 goal, meet that target. And in doing so, they make
14 decisions based off of risk, relative concentrations
15 versus what receptors are present, and then issue
16 permits that are protective of the environment.

17 And again, in this issuing permits, they
18 issue those permits, they cannot do so without
19 determining that it's in compliance with all the state
20 and federal rules. And as you are well aware, for
21 30 years, actually more than 30 years since the
22 creation of the Clean Water Act, they've continued to
23 reissue those permits every five years for our
24 facilities, again, confirming and asserting that we are

1 in compliance with the Virginia standards.

2 MS. CUMMINGS: At this time, I would
3 like to pass out an exhibit. And I would ask that
4 this be marked as Williams Cross Exhibit 1.

5 Q. What I have just --

6 CHAIR MITCHELL: Ms. Cummings, the
7 exhibits shall be so marked.

8 (Public Staff Cross Examination

9 Jason Williams Exhibit 1 was marked for
10 identification.)

11 Q. What I have just passed out as being labeled
12 Cross Exhibit 1 is an executive order -- it's actually
13 a packet. The first stapled portion is Executive Order
14 Number 6 issued by the State of Virginia in 2018, and
15 the second part of the packet is the report to the
16 governor responding to that executive order from the
17 Department of Natural Resources.

18 Are you familiar with this order?

19 A. I'm familiar, in general. I remember when it
20 was issued, yes.

21 Q. So this order was to look at -- it was signed
22 in April of 2018, and it was -- it was requiring a
23 report to the governor.

24 Did the executive order -- the executive

1 order -- I'm sorry, let me go back here.

2 Can you read the first sen- -- would you
3 agree, in general, that the executive order was to
4 review the actions of the Department of Environment in
5 Virginia?

6 A. So this particular order was really a
7 comprehensive review of the overall agency. In fact,
8 it references how funding has decreased. I think it
9 says something like \$27 million a year, or something
10 along those lines, and focused on reviewing how they
11 regulate and protect the environment in Virginia. And
12 as I understood, looking for efficiencies.

13 I would note that, after this was issued, the
14 State has issued additional permits to us confirming we
15 were in compliance. Again, they can't legally issue
16 permits without saying we were in compliance with the
17 rules and regulations.

18 Q. So under executive action on page 2, under
19 subpart A, little A, was part of the DEQ review to
20 review DEQ's permitting programs to ensure that they
21 actually are protective of the health and the
22 environment?

23 A. Could you just say which one? I have two
24 sets of documents here. Which one are you talking

1 about?

2 Q. Yes. So the first -- the executive order,
3 itself, the first document.

4 A. Got you.

5 Q. And under -- this is page 2, under the title
6 "Executive Action," and then A, and then sub little A.

7 A. Yes. I'm reading it now, and it says that
8 it's asking them to review the permitting programs to
9 confirm or ensuring that they're protective of the
10 human health and the environment. I don't see anything
11 here that it says that they are not.

12 Q. Can you read --

13 A. It also says "identifying within 90 days of
14 critical updates to regulations." You know, this was
15 issued in 2018, and I'm not aware of any recommendation
16 that's been found that their regulations are
17 unprotective. And again, we have gotten at least three
18 permits issued following the existing standards
19 following this that, again, confirm we are in
20 compliance with the regulation. So I'm struggling to
21 understand --

22 Q. Can you read little B there as well?

23 A. Of course. "Assessing the enforceability of
24 permitting activity and determining if changes are

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1 needed and the methods DEQ uses to craft such permits."

2 Q. And you said you are aware -- unaware of any
3 findings from this executive order?

4 A. I am unaware of any that would impact what we
5 are here to discuss today, which is cost incurred
6 between 2016 and 2019, yes.

7 Q. Can you go to page 1 of the second packet,
8 the report to the governor?

9 A. Yes.

10 Q. And can you read the third paragraph after
11 the subtitle introduction?

12 A. The one beginning with "since DEQ was
13 formed"?

14 Q. Uh-huh.

15 A. Okay. "Since DEQ was formed in 1993, the
16 agency's funding has decreased significantly. Since
17 2001, DEQ's general fund appropriations have been
18 reduced by \$37 million per year and 74 positions have
19 been lost. Most of DEQ's permit fees are set in code
20 and have not been raised in recent years even as
21 permitting complexity and volumes have increased.
22 Further, the percentage of DEQ's operations supported
23 by general fund has decreased from 40 percent to
24 20 percent leaving the agency more reliant on limited

1 permit fees and federal funds."

2 Q. Thank you. And can you also turn to page 5?

3 A. Okay.

4 Q. And can you read the paragraph starting under
5 the italicized section saying "ensuring protection of
6 our air, water, and land"?

7 A. Yes. "The air, water, and land protection
8 and revitalization, formerly known as waste, divisions
9 carry out DEQ's traditional full responsibilities.
10 Unfortunately, since 2001, these divisions have
11 experienced budget cuts of \$4.3 million, \$8.5 million,
12 and \$2.3 million respectively. This has impacted DEQ's
13 ability to fulfill monitoring compliance and
14 enforcement responsibilities. OSNR recommends the
15 following administrative actions for existing programs.
16 Many of these initiatives will require additional
17 resources in order to carry out the recommendations."

18 Q. Thank you. And on page 7 under "improve
19 water supply monitoring specifically," can you read the
20 third bullet point?

21 A. "Expand groundwater monitoring to include
22 wells that measure saltwater intrusion in eastern
23 Virginia. Limited data shows significant saltwater
24 intrusion to some areas which will only get worse as

1 sea level rise." I'm puzzled as to why that's
2 applicable.

3 Q. I'm sorry. I meant the last bullet point.
4 My apologies.

5 A. Okay. Let me read that one. "Initiate a
6 service water management area study to explore the need
7 for more active management to conserve water in areas
8 where data indicates persistent low-flow conditions
9 could harm in stream uses, aquatic environment" --

10 Q. I apologize. I'm going to interrupt you.
11 I'm on the wrong -- page 6, under improved water --

12 A. To be honest, really, none of this has
13 anything to do with our discussion.

14 Q. Can I just ask you to read the bullet point?

15 A. Where are we going to read now?

16 Q. Can you read the last bullet point on page 6?

17 A. Sure. "Restore funding for Chesapeake Bay
18 water quality monitoring, laboratory services, and
19 coordinator position to ensure Virginia can make
20 progress towards Chesapeake Bay cleanup goals."

21 Q. Thank you.

22 A. Just for context, that has to do with
23 nutrient releases, if you read that regulatory program.
24 Again, not associated with CCR or this rate case.

1 Q. Are you aware that, in 2013, the head of the
2 Virginia DEQ disclosed a gift from Dominion to attend
3 the Masters tournament?

4 A. I think that was well publicized and aware,
5 the one that he lawfully filed the report on that he
6 had occurred.

7 Q. And he's still the head of the DEQ?

8 A. He is the director of the DEQ who answers to
9 the Secretary of Natural Resources.

10 Q. And subsequent to that incident, did the
11 Virginia State Assembly, did they pass a law on ethics
12 reform to limit gifts to government employees?

13 A. Yeah, I'm unsure of that. I'm not familiar
14 with that. That's outside of my purview as the
15 environmental witness, as are moral judgments.

16 Q. I will move on.

17 A. Thank you.

18 Q. Did you review Mr. Lucas' testimony on
19 historical documents and Mr. Junis' testimony from the
20 DEC case that was incorporated by reference?

21 A. Just to make sure, because there is a lot of
22 stuff, right?

23 Q. Yeah.

24 A. You are referring to the EPRI studies and EPA

1 studies that were included, and then some others from
2 organizations like New Mexico University?

3 Q. There was a number, yes.

4 A. I think so. I believe I have got all those
5 here.

6 Q. Are you specifically familiar with Junis
7 Exhibit 8, the 1982 EPRI manual for upgrading existing
8 disposal facilities?

9 A. Yes, I'm very familiar with that one.

10 Q. And did this document speak to retrofitting
11 existing coal ash surface impoundments?

12 A. It did. It's a very interesting document.
13 It does talk about retrofitting and potential options.
14 There is a few things that are kind of key in the
15 document, though. For one, it says perhaps the most
16 important consideration in such circumstances is a
17 determination of whether the site needs to be upgraded
18 at all. The information presented in this manual
19 presumes that the need to upgrade has already been
20 identified by the reading. However, it should not be
21 presumed that an old site must be upgraded to conform
22 with the guidance here. And it also closes with
23 limitations of the manual, which is kind of
24 interesting, but EPRI usually adds those to their

1 financials, and it states decisionmaking within the
2 context of this manual is difficult. So yeah, I am
3 familiar with this document and, in general, what its
4 purpose was.

5 Q. And isn't the first step towards identifying
6 deficiencies and assessing risk at the site to do a
7 detailed site assessment?

8 A. So the first step that is for these actions
9 that would have been focused on groundwater would be
10 monitoring the groundwater and see what those results
11 are. And as we provided, in the state of Virginia they
12 had a measured approach to that, where they require you
13 to put in maybe one up-gradient well, one or two
14 down-gradient, and then proceed based on those results,
15 which is what we did at our impoundments and followed
16 the State's recommendations and their continued permits
17 issued for our path forward.

18 Q. And is it the Company's position that, in the
19 absence of a regulatory directive to correct
20 deficiencies, it would have been imprudent to take
21 action when a site has the potential to cause
22 contamination?

23 A. Well, that's an interesting question. Let's
24 expand on that a little bit. So my understanding, part

1 of prudence is having a legal requirement. And if you
2 look at this document from 1982, which I already
3 pointed out suggests that it doesn't automatically
4 require upgrading of facilities, and it even says
5 shouldn't be used for decisionmaking purposes. I
6 struggle with the idea that we would have read this
7 manual, as I believe you are inferring, and would have
8 decided to take a drastic action, very costly, and come
9 before this Commission or other commissions in Virginia
10 to request significant cost recovery on something that,
11 at that point in time, there was no clear justification
12 that it was needed. But let's say, hypothetically,
13 that we did.

14 So let's say, in this report, they talk about
15 liners, and they talk about, as Mr. Lucas stated
16 yesterday, grout walls. You know, curtains, these
17 slurry walls you can build. And somehow, although not
18 specifically make a recommendation of something that we
19 should have done, makes a loose reference to those
20 items included in this report, which again suggests you
21 not use it for decisionmaking due to the difficulty of
22 the situation. We did that at Possum Point. Possum
23 Point has a liner, Possum Point has a slurry wall, and
24 yet Possum Point's groundwater results are nearly the

1 same as Bremono's, who don't have liners. It's also
2 going to result in the same closure result in Virginia.
3 Although not part of this rate case, it will be
4 excavated as well. But let's go a step even further
5 and say, let's say back in 1982, we decided to build a
6 liner system that doesn't even exist yet. It's called
7 a composite liner system. So let's say you are going
8 to build what now modernly is required. That's 2 feet
9 of clay, and then that's a 60 mil -- that has to do
10 with the thickness -- high density polyethylene liner.
11 And also in 1982, they wouldn't have invented -- since
12 they hadn't invented that liner system yet -- they
13 wouldn't have invented the modern mechanisms to weld
14 those sheets together. So when you build a liner or
15 you build a cap, they come in sheets that are maybe
16 30-feet wide. So you have to connect those, or
17 otherwise, what's the point? And so they hadn't really
18 developed that yet, but let's say they had.

19 Even with a 2019-designed composite liner
20 system, the EPA's standard is to assume there will be
21 one hole per acre over that entire site. It is also
22 assumed that, because holes will occur, per EPA, one
23 per acre, that at some point there will be impacts in
24 groundwater, and as such, they require groundwater

1 monitoring, and they include a stair-stepped process to
2 respond on to those. So they build -- here's the site.
3 They assume that there is still going to be a hole.
4 They assume there is going to be impacts, but they
5 establish a program to monitor, and mitigate, and
6 correct it if it occurs. So, you know, even if we had
7 some ability to go into the future and build liners as
8 constructed in 2019, even EPA still assumes that there
9 will be impacts to groundwater even with that.

10 Q. Was dry ash handling available in the 1980s?

11 A. Dry ash handling was beginning to become
12 available. In fact, we even installed in the '80s dry
13 ash handling at one of our sites. But again, you know,
14 as a utility tasked with providing reliable, affordable
15 power, which is what our mission is to our customers,
16 we have to weigh what the prudent decision is at each
17 site. And we could take a comparison between
18 Chesapeake and Bremo.

19 So Chesapeake began operation in the 1950s as
20 a sluicing operation. So that means they wet
21 transported the ash to ponds. And they operated that
22 way up until the '70s when they switched to oil for a
23 brief time, maybe less than a decade, due to the
24 unfortunate cost impacts of the embargo -- oil embargo.

1 And when they went back to coal, they no longer had a
2 pond to sluice to. The pond was full. And so, at that
3 time, the Company made a decision, well, we can build a
4 landfill on top of it, but to do that, you have to
5 switch to dry. So we switched to dry pneumatic
6 handling at the site so we could construct a landfill.
7 The state at that time required a liner. That predated
8 the regulatory requirements to have liners, but it was
9 to provide a separation, because it was built on top of
10 a pond, so it was very clear where the landfill starts
11 and the pond ends. And so that one switched over,
12 still sluiced bottom ash because it's a so much smaller
13 volume, but converted the dry ash for that landfill
14 purpose, because that was the land we had available and
15 the most prudent decision for our customers.

16 In addition to that, in Chesapeake, we had a
17 massive market for potential reutilization of the ash.
18 So for those that aren't familiar with the Hampton
19 Roads area, pretty much every road is made out of
20 concrete, and you really can't drive anywhere without
21 having to go across a bridge. So there is a massive
22 concrete market there. So shortly after converting to
23 dry ash management for the fly ash, we partnered with a
24 company, PMI, who put in what's called a carbon burnout

1 unit, and it burns up the excess carbon so we could
2 reuse a large volume of that ash into the -- into the
3 concrete manufacturers of Hampton Roads. So that's one
4 side where we made a decision to go to sluice -- from
5 sluicing to dry, and again, it was because that was the
6 most prudent decision versus there was no place to make
7 another pond, we already had to do significant air
8 pollution control and enhancements to meet the Clean
9 Air Act requirements which didn't come into effect
10 until the early '70s.

11 Now, if you look at Bremono, Bremono started
12 operating in 1931. It began operating as a sluicing
13 operation, and it continued to do that until it
14 switched to natural gas in 2014. And so throughout
15 that time, the Company sluiced ash, and in doing so,
16 they were able to have land to build additional ponds.
17 So they were able to build a pond directly adjacent to
18 the north pond, and as the state regulatory agencies
19 continued to issue permits, and continued to deem that
20 that operation was protective, the Company made the
21 most prudent decision that it was not in the customer's
22 interest to upgrade the dry handling at Bremono, because
23 we had these other ponds, there was sufficient lifespan
24 left, we should continue using those and continue

1 sl u i c i n g.

2 So I share that just to give a little more
3 perspective on, yes, it was available, and why, back in
4 1982, you would have maybe made that decision to go to
5 dry. And it is difficult. You know, we are all
6 sitting here in 2019, and we have 2019 regulatory
7 standards, 2019 social expectations, whatever it might
8 be, but you really have to go back to 1982 and what was
9 known at that time and how these operations function.

10 Q. And I am trying to bring the conversation
11 back to 1982 and the EPRI manual, and one of your
12 engineers just pointed out to me that the manual does
13 have a whole chapter on liners. Have you reviewed
14 that?

15 A. Yeah, yeah.

16 Q. And do you assert that all those options for
17 liners would not have made any difference; is that your
18 position?

19 A. What I'm saying is, in 1982, the liner
20 systems -- they were pretty poor methods for welding or
21 connecting these liners to each other. Remember I said
22 they are sheets? You can't put on a truck a 50-acre
23 role of matting, so a lot of them were PVC materials
24 which you had to glue together or overlap, which if you

1 just overlap can still leak. And then other ones were
2 much thinner, like at Chesapeake, the 20 mil HDPE.

3 So again, you know, this is 1982 technology.
4 If EPA is telling me, in 2019, that my Cadillac version
5 of a liner system with a composite liner of 2 feet of
6 clay and a 60 mil HDPE, which is far greater I believe
7 than what was in here, is going to leak through one
8 hole per acre, then I would have no other reason then
9 to believe that these 1982 liners too would have
10 leaked. As evidenced by the clay liner at Possum
11 Point, which has similar groundwater results as the
12 Bremon station, which doesn't have a liner.

13 Q. In several places throughout your rebuttal
14 testimony you state that the Company has always
15 complied with the directive of environmental
16 regulators. You also state that the Company has never
17 installed a single voluntary groundwater monitoring
18 well in responses to data requests from the Public
19 Staff.

20 Is it the Company's position that doing the
21 bare minimum for compliance is proof that the Company
22 has been reasonable and prudent?

23 A. So I would say I think our track record shows
24 that we have not always done the bare minimum, but as a

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1 utility, again, we have to make the decision based off
2 providing reliable, affordable power what path forward
3 we should take at every crossroads that we entertain.
4 And an aspect of that is what's legally required and
5 typically what has to be justified in any sort of
6 future rate proceeding. And so as such, we would have
7 moved forward with what was the proper action at that
8 time.

9 Q. On page 15 of your testimony --

10 A. Are we talking rebuttal?

11 Q. Yes. I will consistently stick with
12 rebuttal.

13 A. Thank you.

14 Q. You state that the Public Staff did not
15 provide the proper context to its analysis of the
16 evolving knowledge of potential impacts of CCR, and you
17 state that you have provided a summary of this
18 regulatory history, much of which was omitted from the
19 Public Staff testimony.

20 Can you tell us which reports, exactly, that
21 you allege the Public Staff omitted?

22 A. Can you reference a particular line in mine?
23 I was trying to get to the page here. A particular
24 statement that you are reading of mine?

1 Q. Yes. It's just in my notes, so let me look
2 it up.

3 Do you recall stating that the Public Staff
4 omitted?

5 A. I would like you to refer to the line in my
6 testimony, then I would be happy to answer any
7 questions about what I stated.

8 COMMISSIONER BROWN-BLAND: Looks like it
9 was line 11.

10 (Pause.)

11 Q. So I'm starting here on page 14, line 21,
12 "That the Public Staff has also omitted findings and
13 other reports that would provide additional context."

14 A. Correct. How about I answer that one first?
15 What I was referencing there are a couple of example of
16 that. One would be the inclusion of the special order
17 from 1986 for Possum Point, and an assertion that the
18 Company is clearly out of compliance with this order
19 from 33 years ago, simply because we did not build a
20 dry ash. And ironically the exhibit included by Mr.
21 Lucas included a cover letter from the acting
22 enforcement manager for DEQ at that time in the early
23 '90s saying we are derefering this case as all
24 conditions have been met. So that would be an example

1 of omitting findings or reports that would have
2 clarified context instead of portraying that we were
3 out of compliance. And then an additional one would be
4 they included a seep mitigation plan in their testimony
5 and implied that that came from our ash ponds, and only
6 included the text, not the figure that goes along with
7 that, which we provided in our rebuttal. And the
8 figure shows that that seep mitigation plan is focused
9 on a seep that occurred over by the power station
10 that's not connected to our ash ponds. So those would
11 be the couple of examples just off the top of my head
12 where information was kind of misleading or omitted.

13 Q. And I would like to talk about Possum Point a
14 little later, but --

15 MR. SNUKALS: I have to object to the
16 continued interruption of Mr. Williams. If you
17 could please allow him to finish his answer before
18 you continue your next question. Thank you.

19 Q. Would you like to finish your answer?

20 CHAIR MITCHELL: I will sustain the
21 objection, and if the witness does not ask the
22 question -- does not answer the question asked, I
23 will allow you to ask the question again.

24 MS. CUMMINGS: Okay. Thank you.

1 Q. So you do go through some regulatory
2 determinations.

3 First, you discuss the Bevill amendment,
4 which was the decision by Congress subsequent to the
5 enactment of RCRA to further study and assess whether
6 coal ash waste should be regulated; is that correct?

7 A. Correct.

8 Q. But coal ash, it does contain constituents
9 that are a risk to the human health and the environment
10 when they exceed certain concentrations in groundwater,
11 correct?

12 A. Well, that's a pretty complex question. Many
13 things in the world contain constituents that could be
14 harmful at certain levels. The important thing with
15 coal ash, as it is with all matters of waste, is how
16 they are managed, how they're monitored. And then
17 based on those relative results, what actions would be
18 required. So I'm not sure I would support the --

19 Q. You didn't --

20 A. I'm done.

21 Q. Okay. But arsenic, is that a -- that's an
22 example of a constituent that would be harmful at
23 certain concentrations?

24 A. So arsenic is present in coal ash, just as

1 it's present in most of the coastal plain soils of the
2 U.S., and the federal government promulgated an MCL
3 that establishes a drinking water standard for people
4 who are exposed to it over extended years. So there is
5 a limit that the federal government provided for that.

6 Q. And you also discuss subsequent reports and
7 determinations by the EPA that assess the
8 appropriateness of regulating coal ash under subtitle C
9 or subtitle D of RCRA; is that correct?

10 A. Yes. Their determination that it should stay
11 under subtitle D and was not worthy -- or required for
12 hazardous waste.

13 Q. You specifically discuss the 1980 EPA report,
14 the 1993 regulatory determination, the 1999 EPA report,
15 and the 2000 regulatory determination?

16 A. Yes, that's correct.

17 Q. And I would like to turn to the 1999 EPA
18 report to Congress.

19 MS. CUMMINGS: And I'm going to hand
20 that out at this time as a cross exhibit. And that
21 might take a moment. It's large.

22 CHAIR MITCHELL: Ms. Cummings, we will
23 mark this exhibit Public Staff Cross Examination
24 Jason Williams Exhibit 4.

1 (Public Staff Cross Examination
2 Jason Williams Exhibit 4 was marked for
3 identification.)

4 Q. So to help out, and finding some of these
5 sites that are large in here, I didn't put them on a --
6 I will try to put them on the scene, but I'm having a
7 bit of technical difficulties. Here we go.

8 So the report that we have just marked as
9 Cross Exhibit Number 4, including two volumes. The
10 first, Volume 1, is the executive summary, and then
11 there is a Volume 2, and I'm specifically referring to
12 the Volume 2, and it can get a little confusing with
13 the page numbers, that's why I pointed out. There is
14 two page 3-4s. I'm talking about page 3-4 -- and I
15 will pull it up -- that's in the second volume.

16 So, Mr. Williams, in your testimony about the
17 1999 EPA report, you say that the EPA could not
18 identify any particular actions the Company or industry
19 should have taken to mitigate risk from large service
20 impoundments.

21 A. That is the -- line 10 through 12 in my
22 testimony.

23 Q. And you can see on the screen, or you can
24 flip to it in the exhibit. This is page 3-4 in Volume

1 2. Would you mind reading into the record that quote?

2 A. Yes. "In addition to regulatory permits, the
3 majority of states are now able to require siting
4 controls, liners, leachate collection systems,
5 groundwater monitoring, closure controls, daily or
6 other operational, cover and fugitive dust controls.
7 EPA believes the use of such controls has the potential
8 to mitigate risks, particularly groundwater pathway
9 risks, and commingled -- comanaged" -- I'm sorry --
10 "waste disposals."

11 Q. So the EPA here did identify some ways to
12 manage risk?

13 A. So they identified ways to manage risk that
14 the states were using for sites going forward. Those
15 aren't for sites that are already constructed in place.
16 And this is another important subject, as we reference
17 to plucking particular lines out of a report. With
18 scientific studies and engineering reports, it's
19 important to look at the entire breadth, and
20 ironically, section 3-5, which is of the first
21 volume -- not to get mixed up here, since we have a
22 document that appears to start over in numbering --
23 number 3-5, the agency found current management of
24 practices and trends in existing state and federal

1 appear adequate for protection of human health and
2 environment. It also states that they present a low
3 inherent toxicity or characterize hazardous and
4 generally do not present a risk to human health or the
5 environment, which is on the same report, just in the
6 first page 3-5 that you get to.

7 Q. Appears we may have had a -- I am not finding
8 it on page 3-4 either.

9 A. It's 3-5. It's like the sixth page in from
10 the cover page.

11 COMMISSIONER CLODFELTER: What you have
12 on the screen is 3-4 from Volume 1, not Volume 2.

13 MS. CUMMINGS: Oh, okay. Thank you for
14 the correction.

15 Q. You also briefly summarized the 2000
16 regulatory determination, and this determination was
17 following up on the 1999 report; is that correct?

18 A. That's correct.

19 Q. And that was the first time that EPA
20 specifically decided to regulate under subtitle D?

21 A. That was when they made the determination
22 that it should be handled under subtitle -- or
23 reaffirmed their decision, going back I guess to '88,
24 that coal ash should be managed under subtitle D not C,

1 which again is where the nonhazardous solid waste is.

2 Q. And in 2000, they decided that national
3 regulations were nothing under subtitle D, subject to
4 check?

5 A. Subject to check.

6 Q. And on page 22, you state that Virginia and
7 West Virginia were on the leading edge of coal ash
8 regulation on the state level?

9 A. Correct.

10 Q. But that federal regulation was needed
11 because other states were not regulating as well?

12 A. Yeah. Virginia has a pretty long history of
13 management of solid waste in Virginia. In fact, they
14 promulgated their solid waste regulations about four
15 years before the federal government did. Most people
16 were surprised to find out that all your municipal
17 waste, your household hazardous waste, things like that
18 that go to landfills didn't have to have liners until
19 1993, many of which continue to operate without liners
20 and are monitored and shutting down. Latest shutdown
21 will be 2020 in Virginia. And so they have had a
22 program that's been ahead of the federal rule in
23 managing, and then also through managing groundwater
24 monitoring at surface impoundments as early as 1983 at

1 one of our sites. They were 30-plus years ahead of the
2 federal government's decision to require groundwater
3 monitoring at surface impoundments. So I would stand
4 by that point, that they were the leaders.

5 Q. And the 1999 report -- and again it may be
6 hard to find -- I believe this is actually in the
7 second volume, figure 3-5, but I can pull it up --
8 documented a trend in utilities moving from surface
9 waste impoundments to landfills.

10 A. If you could cite exactly where it's at. I
11 mean, I don't disagree that that was probably the case,
12 but again, this is nearly 20 years after our
13 impoundments were built. So it's a little confusing
14 what you're asking me.

15 Q. You did build impoundments in the '80s,
16 didn't you?

17 A. We did. This document is from 1999.

18 Q. But it's documenting trends over time?

19 A. It's documenting the latest trends and
20 regulation activities, which many have switched to dry
21 handling, largely for air pollution-control equipment
22 like we did in Chesapeake, and, you know, those units,
23 like Clover, that were built in the '90s were built
24 with dry handling, because that was the most efficient

1 handling since they didn't have a wet sluice system in
2 place. So if you could point me to the place in this
3 document where it says that trend was the result of
4 impacts and environmental harm, that would be helpful.

5 Q. I don't think I have a quote to that effect.

6 A. Yeah. I'm pretty sure it doesn't say that.
7 It just talks about industry trends at the time of this
8 report, which is substantially past when we built our
9 impoundments.

10 Q. But would you accept that there was a trend
11 in states moving to landfills at the time, and that may
12 have likely been because landfills had liners?

13 A. Yeah. I'm not gonna speculate on that,
14 because some impoundments had liners, much like I
15 referenced earlier; our Possum Point Pond D had a
16 liner. So it would be subjective to guess as to why.
17 But again, I think there were a number of economic
18 reasons that dry ash management for newly constructed
19 generation, much like our Clover power station, would
20 have gone to a landfill. And as I mentioned yesterday
21 in Commissioner's questions, those -- that facility is
22 lined because it was subject to the Virginia
23 regulations that were 20 years ahead of the federal
24 government that required industrial landfills to have a

1 liner.

2 Q. And my only point is that, in the '80s,
3 liners were becoming more prevalent, and just to this
4 point of what states were requiring or weren't
5 requiring, or what trends were going on, can I ask you
6 to read this quote? This is also the second volume,
7 page 328.

8 A. I'm gonna go to the actual document, if
9 that's okay. I have a little trouble reading from the
10 screen.

11 Q. Yeah. I understand.

12 A. All right. So this is the second 3- -- if
13 you could repeat, please?

14 Q. 3-28.

15 A. Thank you. Thank you. Let me find that
16 line. 3.3.4, okay. "An examination of the geographic
17 distribution of new lined surface impoundments suggests
18 that liner requirements in several states have changed.
19 The change from unlined to lined surface impoundments
20 appears concentrated in the states of Georgia,
21 Illinois, Indiana, Kentucky, Missouri, and Texas.
22 These states account for 44 percent of the active
23 comanagement surface impoundments in the EPRI survey.
24 In these six states, only six, or 15 percent, of the

1 impoundments opened before 1982 are lined. On the
2 other hand" -- or did you line that? Yes. "On the
3 other hand, all the impoundments opened since 1982 are
4 lined."

5 Q. So after the 1999 report, you also briefly
6 summarized the 2000 regulatory determination, as we
7 already noted, and the 2000 regulatory determination,
8 that was an exhibit to your testimony?

9 A. Yes.

10 Q. And you can look this up, or just subject to
11 check, would you accept that the EPA, in that
12 regulatory determination, said that groundwater
13 monitoring, at a minimum, is a reasonable approach to
14 monitor performance of the unit and a critical first
15 step to identify damage?

16 A. Well, I would -- I would say, subject to
17 check, however, my understanding is that's focused on
18 landfills. They decided to retain, I believe the
19 exemption for CCR surface impoundments, so I'm not sure
20 that statement is directed at impoundments and
21 landfills. I would really need to see that section.

22 Q. It's page 17 of 25 of your exhibit.

23 A. (Witness peruses document.)

24 I'm having trouble locating it, but subject

1 to check, I will -- yes, let's say that they
2 recommended groundwater in 2000.

3 Q. Well, you just said that may be likely
4 because they were talking about landfills. Wouldn't
5 surface impoundments require groundwater monitoring?
6 Wouldn't that be more important at surface impoundments
7 where there is not a liner?

8 A. Well, just to clarify, in 2000, we were
9 groundwater monitoring all of our impoundments. So we
10 were doing what the EPA was recommending.

11 Q. You just started at some of them, right?
12 Bremo you had just started, and it wasn't at all the
13 impoundments?

14 A. No, that's not correct. Bremo was the
15 last -- well, yeah, there were ABC that did not have
16 monitoring at that time, but the Chesterfield
17 lower/upper had been since the mid '80s, and CEC I
18 think goes back to the early '80s.

19 Q. And --

20 A. I've got that form, if you need the dates
21 exact.

22 Q. Sure. And that was presented to you in Lucas
23 Exhibit 1, all those dates?

24 A. Yes.

1 Q. Your Exhibit 5 is the 1998 Virginia DEQ
2 guidance, and you say that Virginia took a
3 comprehensive approach to groundwater monitoring?

4 A. Correct. What DEQ did is they had almost a
5 stair-stepped approach where they would require a
6 certain number of wells to start maybe one up-gradient,
7 one or two down-gradient, and then they would expand
8 the networks as needed based on those results. They
9 would also look at the results each time and determine
10 if there was an additional monitoring required, perhaps
11 additional frequency, or, as I said, more wells, or
12 they would determine, in the most extreme -- or more
13 extreme cases, that they may suggest doing a risk
14 assessment. And then based on that, they would
15 determine if natural attenuation was appropriate or if
16 there were other more active steps. So yeah, it was a
17 very stair-stepped kind of comprehensive program as to
18 how they address groundwater.

19 Q. I'd like to turn now to that exhibit and
20 page 25 of that exhibit.

21 A. (Witness peruses document.)

22 And again, Exhibit 5, correct, the '98
23 guidance?

24 Q. Yes.

1 A. All right, I'm on page 25.

2 Q. And I apologize, I think I'm confusing
3 your -- the top of your pages with the bottom. So it's
4 page 14 at the top. Can you read that highlighted
5 part?

6 A. Yes. "In summary, the authority exist" -- I
7 apologize. I'll start over. "In summary, the
8 authority exists for items such as groundwater
9 monitoring, facility upgrades, and response to
10 groundwater contamination, and groundwater remediation
11 to be required. The VPDES permit regulation contains
12 similar citations as the BPA permit regulation.
13 However, as noted above, this is still a controversial
14 issue for VPDES permitting and currently subject to a
15 number of lawsuits. In that regard, if" --

16 Q. And you can stop there. Sorry to interrupt
17 you.

18 A. Yup.

19 Q. On page 25 of your testimony, lines 9 through
20 11, you say DEQ has broad authority to require
21 groundwater monitoring. But they show in this document
22 that they had some concerns about requiring that
23 monitoring, correct?

24 A. Well, let's use their exact words. They

1 raised that there were concerns and there were
2 lawsuits. You know, I'm not aware of any VEPCO lawsuit
3 against DEQ when they required us to start groundwater
4 monitoring, which, as I mentioned, a number of our
5 ponds started before this guidance was even in
6 existence. Certainly, once this guidance was passed in
7 2000, when it started at Bremo, we had no objection to
8 the groundwater requirements. So I'm not sure how
9 that's applicable to Dominion, as we were not parties
10 in the lawsuit to prevent the state from doing it. And
11 as they state in their own guidance, they have the
12 authority to require risk assessments, corrective
13 actions, remediation.

14 Q. My only point is they may have been a bit
15 hesitant to do that?

16 A. I think that's subjective, and I wouldn't be
17 able to talk about how they felt in 1998 about asking
18 us to add groundwater. Again, they did ask us, and we
19 complied with that.

20 Q. Okay. On the next page of that same document
21 under "type of contaminants," so page 15 at the top.

22 A. Yes, ma'am.

23 Q. Sublittle B, can you read that about -- and
24 that concerns the type of contaminant and earthen dams.

1 A. "If earthen, are they lined or unlined?" And
2 you said read the parentheses as well?

3 Q. Yes.

4 A. "Obviously, if unlined, there would be much
5 greater potential for groundwater contamination to
6 occur."

7 Q. So, at the time the Virginia DEQ did
8 acknowledge that there was potential for groundwater
9 contamination from unlined impoundments; is that fair?

10 A. I think that's fair because, obviously, they
11 started requiring groundwater monitoring so that they
12 could monitor and mitigate those concerns and require
13 any corrective actions that were necessary, which with
14 the exception of Pond D weren't required at our sites.
15 And again, you know, it's part of their justification
16 for requiring groundwater monitoring.

17 Q. And if we could talk about Possum Point and
18 Pond D, on page 34 of your rebuttal testimony with
19 regard to Possum Point -- if you can turn there now --
20 you state that the special order was canceled due to
21 full compliance with the order.

22 A. That is what the testimony to the State Water
23 Control Board showed on behalf of DEQ, and the approval
24 memo that we provided -- or I'm sorry, confirmation

1 memo that we provided to Public Staff states that we
2 have complied with the order and that any applicable
3 requirements have been incorporated into the 1991
4 permit.

5 Q. And that same memo you supplied the Public
6 Staff was included in the Lucas exhibit on the special
7 order?

8 A. No. That's what's interesting is it appears
9 Mr. Lucas had reached out to DEQ for information on
10 Possum Point and had gotten, in return, this special
11 order with the letter recommending dereferral of that
12 action. We, subsequently to that, reached out to DEQ
13 and asked the question, hey, there's been an allegation
14 that we are not in compliance with this. You know,
15 what records do you have? And they sent us the records
16 on that, and in addition to the letter in Mr. Lucas'
17 testimony, directly behind that in the record was the
18 board's memo formally cancelling that special order.
19 So it was an additional document that Mr. Lucas didn't
20 provide. I don't know if he got that document when he
21 reached to DEQ or not, but it wasn't provided in his
22 exhibit.

23 Q. So this is the document you reference on
24 line 9 of your testimony; is that the May 14th, 1991?

1 A. Yeah. That's referencing the -- that's
2 referencing the letter that Mr. Lucas included.

3 MS. CUMMINGS: At this time, I would
4 like to pass out another cross exhibit. This would
5 be Cross Exhibit Number 5.

6 CHAIR MITCHELL: Ms. Cummings, I'll stop
7 you there. We will take our break and come back on
8 the record at 1:00, so just hold your exhibit until
9 that time. Thank you. Let's go off the record,
10 please.

11 (The hearing was adjourned at 11:33 a.m.
12 and set to reconvene at 1:00 p.m. on
13 Wednesday, September 25, 2019.)
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CERTIFICATE OF REPORTER

STATE OF NORTH CAROLINA)

COUNTY OF WAKE)

I, Joann Bunze, RPR, the officer before whom the foregoing hearing was taken, do hereby certify that the witnesses whose testimony appears in the foregoing hearing were duly sworn; that the testimony of said witnesses was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, nor employed by any of the parties to this action; and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, nor financially or otherwise interested in the outcome of the action.

This the 28th day of September, 2019.



JOANN BUNZE, RPR

Notary Public #200707300112

