

1 PLACE: Dobbs Building, Raleigh, North Carolina

2 DATE: Thursday, December 19, 2019

3 TIME: 1:30 p.m. - 4:15 p.m.

4 DOCKET NO: EMP-105, Sub 0

5 BEFORE: Chair Charlotte A. Mitchell, Presiding

6 Commissioner ToNola D. Brown-Bland

7 Commissioner Lyons Gray

8 Commissioner Daniel G. Clodfelter

9 Commissioner Kimberly W. Duffley

10 Commissioner Jeffrey A. Hughes

11

12

IN THE MATTER OF:

13

Application of Friesian Holdings, LLC,

14

for a Certificate of Public Convenience and

15

Necessity to Construct a 70-MW Solar Facility

16

in Scotland County, North Carolina

17

18

Volume 4

19

20

21

22

23

24

1 A P P E A R A N C E S:

2 FOR FRIESIAN HOLDINGS, LLC:

3 Karen M. Kemerait, Esq.

4 Fox Rothschild LLP

5 434 Fayetteville Street, Suite 2800

6 Raleigh, North Carolina 27601-2943

7

8 Steven J. Levitas, Esq.

9 Kilpatrick Townsend & Stockton, LLP

10 4208 Six Forks Road, Suite 1400

11 Raleigh, North Carolina 27609

12

13 FOR DUKE ENERGY PROGRESS, LLC:

14 Jack E. Jirak, Esq.

15 Associate General Counsel

16 Duke Energy Corporation

17 Post Office Box 1551/NCH 20

18 Raleigh, North Carolina 27602

19

20

21

22

23

24

1 A P P E A R A N C E S Cont'd.:

2 FOR NORTH CAROLINA SUSTAINABLE ENERGY ASSOCIATION:

3 Peter Ledford, Esq.

4 General Counsel

5 Benjamin Smith, Esq.

6 Regulatory Counsel

7 4800 Six Forks Road, Suite 300

8 Raleigh, North Carolina 27609

9

10 FOR NORTH CAROLINA CLEAN ENERGY ALLIANCE:

11 Benjamin L. Snowden, Esq.

12 Kilpatrick Townsend & Stockton, LLP

13 4208 Six Forks Road, Suite 1400

14 Raleigh, North Carolina 27609

15

16 FOR THE USING AND CONSUMING PUBLIC:

17 Tim R. Dodge, Esq.

18 Layla Cummings, Esq.

19 Public Staff - North Carolina Utilities Commission

20 4326 Mail Service Center

21 Raleigh, North Carolina 27699-4300

22

23

24

1	T A B L E O F C O N T E N T S	
2	E X A M I N A T I O N S	
3	PANEL OF EVAN D. LAWRENCE and DUSTIN R. METZ	
4	Cont'd Cross Examination by Ms. Kemerait.....	6
5	Cross Examination by Mr. Ledford.....	15
6	Cross Examination by Mr. Snowden.....	41
7	Redirect Examination by Mr. Dodge.....	50
8	Redirect Examination by Ms. Cummings.....	57
9	Examination by Commissioner Clodfelter.....	59
10	Examination by Commissioner Duffley.....	63
11	Examination by Commissioner Brown-Bland.....	70
12	Examination by Commissioner Hughes.....	92
13	Re-Examination by Commissioner Duffley.....	96
14	Re-Examination by Commissioner Hughes.....	100
15	Examination by Chair Mitchell.....	100
16	Re-Examination by Examination by Commissioner	
17	Brown-Bland.....	106
18	Re-Examination by Chair Mitchell.....	110
19	Further Examination by Commissioner Duffley...	112
20	Examination by Mr. Dodge.....	114
21	Examination by Ms. Kemerait.....	116
22	Examination by Mr. Levitas.....	121
23	Examination by Mr. Snowden.....	127
24		

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

E X H I B I T S

IDENTIFIED/ADMITTED

Applicant Cross Exhibits 1 - 5.....--/130

Confidential Lawrence/Metz Exhibit 1.....--/131

(Filed under seal)

Lawrence/Metz Exhibits 2, 3 and 4.....--/131

1 P R O C E E D I N G S

2 CHAIR MITCHELL: Good afternoon. Let's go
3 back on the record, please. Ms. Cummings, I believe
4 we're with you.

5 MS. CUMMINGS: Karen Kemerait.

6 MS. KEMERAIT: Right. Right. Yes, we're
7 finishing up cross examination of the Public Staff
8 witnesses.

9 Good afternoon, again. Again, Karen
10 Kemerait, representing the Applicant, Friesian
11 Holdings, LLC, and I have just a few follow-up
12 questions from yesterday's line of questioning.

13 (Having previously been sworn,
14 Witnesses Evans and Lawrence
15 return to the stand)

16 CROSS EXAMINATION BY MS. KEMERAIT:

17 Q And I'd like to begin by the evidence and
18 testimony that's presented by Rachel Wilson
19 yesterday in regard to her testimony about the
20 Synapse Report that she provided. And have
21 either of you reviewed Ms. Wilson's Synapse
22 Report that is attached as Exhibit RW-2 to her
23 testimony?

24 A (Metz) Yes, we have.

1 Q And in that report, Ms. Wilson and her Synapse
2 colleagues had concluded that a storage -- a
3 solar plus storage plan for future generation
4 would save ratepayers about \$5 million relative
5 to an all-gas IRP. Is that your understanding?

6 A That's my understanding of the Synapse Report and
7 her testimony. In regards to the Synapse Report,
8 I believe that was introduced in a 2018 IRP, that
9 report was not thoroughly evaluated by the Public
10 Staff. We have raised our initial concerns and
11 that was filed in our comments within the IRP on
12 some of the assumptions within that model.

13 Q And then, other than the concerns that you have,
14 you do agree that there would be benefits to
15 additional solar in the state?

16 A (Lawrence) Is that a more general question or is
17 it still in regards to the Synapse Report?

18 Q Yeah, it's a more general question, yes.

19 A I think we agree that solar throughout the state
20 sited in the correct areas, done in a planned
21 manner, it can be beneficial to the people of the
22 state.

23 Q Okay. Thank you. And I may need to correct what
24 I said. I think I may have said \$5 million

1 related to her report but I meant to say
2 \$5 billion. So if I misstated that I'll correct
3 that question.

4 And then moving on to the
5 Governor's Clean Energy Plan, you are both, I'm
6 sure, aware that the Governor has issued a Clean
7 Energy Plan for the State of North Carolina.

8 A (Metz) Are you referencing Executive Order 80?

9 Q Yes. Uh-huh (yes).

10 A Okay.

11 Q And as part of that Executive Order 80 or the
12 Governor's plan, it calls for a 70 percent
13 reduction in carbon emissions from the state's
14 utility sector by 2020. Is that your
15 understanding?

16 A That's my general understanding of Executive
17 Order 80. I'd just like to clarify that that is
18 currently a goal and that goal is being
19 implemented through DEQ and we're still waiting
20 to see how -- what would be the long-term road
21 map to achieve those goals.

22 Q And then you're also aware that Duke Energy is
23 committed to achieving at least a 50 percent
24 reduction in its carbon emissions by 2030. Is

1 that your understanding as well?

2 A That is correct. I believe they filed that
3 approximately within the same timeframe as the
4 2019 IRP or the 2018 update, which that plan has
5 also not been reviewed and we are not fully aware
6 of how the utility plans to meet those goals.

7 Q Okay. But would you agree that in the ability to
8 achieve either the Governor's goals or Duke's
9 goals will require the retirement of coal
10 generating facilities and replacing them with
11 some combination of natural gas and renewable
12 resources?

13 A I believe that's a fair assumption. And again,
14 located strategically on the grid where it needs
15 to be located, and renewable resources and not
16 just solar-specific resources.

17 Q Correct; renewable resources.

18 And did you review Ms. Wilson's
19 testimony where she states that achieving that --
20 the Governor's 70 percent reduction goal in
21 carbon emissions would require the addition of
22 about 14 gigawatts of solar energy?

23 A Can you point to that in her testimony please?

24 Or I can accept it subject to check.

1 Q Okay. Subject to check.

2 A Subject to check.

3 Q And do you have any basis for disputing that
4 substantial amount of renewable energy will, in
5 fact, be required as you stated before to meet
6 that goal?

7 A I haven't validated that number. I don't know
8 how it was derived.

9 Q Okay. And then in regard to public health
10 benefits that Ms. Wilson discussed in her
11 testimony, she stated that the state will realize
12 hundreds of millions of dollars of reduced
13 healthcare costs as a result of relying primarily
14 on solar to meet Duke's new generation needs. Do
15 you have any reason to disagree with her
16 statement?

17 A That's not my expertise. It would require too
18 much speculation.

19 Q So no basis at this point to dispute that
20 statement?

21 A I have no technical basis to dispute that
22 statement.

23 Q Okay. And then finally I'll move on to -- I've
24 got just a couple more questions. This relates

1 to the benefit, economic development benefits to
2 the southeastern portion of the state. And I
3 think you'll recall that Mr. Bednar's testimony
4 was that the construction of the Friesian network
5 upgrades would open the door for billions of
6 dollars in investment in that part of the state.
7 Do you have any basis for disputing Mr. Bednar's
8 assessment and testimony about those benefits to
9 the communities in the southeastern portion of
10 the state?

11 A I have no reason to dispute it. But again, I
12 don't know how those values are derived.

13 Q Okay.

14 A (Lawrence) Additionally, we have no reason to
15 dispute that but if that holds true for
16 southeastern North Carolina that holds true for
17 anywhere. That wouldn't be specific to that
18 area.

19 Q And, also, are you aware that there are a number
20 of communities that have submitted resolutions of
21 support of the Friesian project. And
22 specifically are you aware that the Scotland
23 County Board of Commissioners, the Bladen County
24 Board of Commissioners, and the Town of Maxton

1 have filed statements of support of the Friesian
2 upgrades in this docket?

3 A (Metz) I'm aware of the -- I believe there is one
4 consumer statement position that supported the
5 Friesian project in the docket system.

6 A (Lawrence) I did see that there, that those
7 counties did file those positions. Yes.

8 Q Okay. And then moving on to the statement or the
9 comments that you made in your testimony about
10 Clearinghouse review for the Friesian amended
11 CPCN application, and I'll provide a little bit
12 of background before I ask my question, but as
13 you will recall this application started off as
14 an amended application and a SP docket; is that
15 your recollection?

16 A (Metz) Yes, it is.

17 Q And as part of the amended application in the SP
18 docket, is it your understanding that the site
19 plan and the application went through
20 Clearinghouse review, and that Clearinghouse
21 review has been completed in the SP docket?

22 A Yes, that is correct.

23 Q Then after Clearinghouse review had been
24 completed, it was determined that this amended

1 application needed to be refiled in this EMP
2 docket, the Merchant Plant Docket. Is that your
3 recollection of how we ended up here?

4 A Can you state that one more time?

5 Q Okay. We withdrew the application --

6 A Yes.

7 Q -- from the SP docket because it was determined
8 that it was not a qualifying facility and that it
9 was more appropriate and it needed to be -- the
10 amended application needed to be filed in a
11 merchant plant proceeding so we refiled in
12 EMP-105.

13 A Yes, that's my understanding. Correct.

14 Q And is it also your understanding that the site
15 plan and application -- excuse me, the site plan
16 and details about the facility have not changed
17 in any respect from the site plan and details
18 about the facility from the SP docket?

19 A In my review of the application, yes, that is
20 correct.

21 Q And so does the Public Staff have a position
22 about whether additional Clearinghouse review
23 needs to be completed since the site plan has not
24 changed in any way?

1 A So historically if we looked at this from say an
2 SP item or an amendment to an SP item, if the
3 site plan did not change between the original
4 application and the amended application we would
5 not recommend to the Commission for additional
6 Clearinghouse comments.

7 Q And if Friesian were to request that the
8 Commission not require further Clearinghouse
9 review since the site plan has not changed, would
10 the Public Staff support that request or at least
11 not oppose it?

12 A If there is no change in between the amended
13 application and transitioning over into the EMP
14 docket then we would not object to that.

15 Q Okay. And then finally I wanted to ask you a
16 couple of questions about a very general proposal
17 that Friesian has made to the Public Staff. Do
18 you recall that Mr. Levitas and I reached out to
19 Mr. Dodge and Ms. Cummings and requested a
20 meeting in November so that we could talk about
21 some possibilities of ways to address the Public
22 Staff's concerns about the cost of the network
23 upgrades?

24 A (Lawrence) I agree in that the meeting was --

1 that was part of the meeting. Yes.

2 Q And we had a meeting on November the 22nd; is
3 that your recollection?

4 A I believe that date is correct but I guess
5 subject to check.

6 Q Subject to check. And during the meeting do you
7 recall that Mr. Levitas and I provided a general
8 proposal for the Public Staff to consider about a
9 possibility of cost sharing of the network
10 upgrade costs among the interdependent projects?

11 A That is correct.

12 MS. KEMERAIT: Thank you. That's all the
13 questions I have. Steve?

14 MR. LEVITAS: Nothing further.

15 MS. KEMERAIT: Okay. Thank you.

16 CHAIR MITCHELL: Mr. Ledford.

17 MR. LEDFORD: Thank you.

18 Mr. Metz, Mr. -- excuse me. Mr. Metz,
19 Mr. Lawrence, my name is Peter Ledford. I'm here on
20 behalf of the North Carolina Sustainable Energy
21 Association.

22 CROSS EXAMINATION BY MR. LEDFORD:

23 Q I wanted to start out with a couple of questions
24 about the need for the generation, leaving aside

1 the issue of the transmission and network
2 upgrades. Does the -- do NCEMCs file an IRP with
3 the Commission?

4 A (Metz) No, they do not.

5 Q And have you presented any evidence that Friesian
6 does not meet the needs of NCEMC?

7 A The needs of NCEMC are not known.

8 Q Okay. So there's no evidence that Friesian would
9 not meet the needs because the needs are unknown?

10 A The needs are unknown for NCEMC. Yes, that's
11 correct.

12 Q Okay. And NCEMC is a party to this docket,
13 correct?

14 A That is correct.

15 Q And did the Public Staff serve discovery on
16 NCEMC?

17 A (Lawrence) I do not recall.

18 Q Okay. Did the Public Staff attempt to determine
19 NCEMC's need for the facility?

20 A (Metz) No. Because, again, the burden of proof
21 is on the Applicant and not on NCEMC as an
22 intervenor into the docket.

23 Q Understood. So is the Public Staff attempting to
24 substitute its own judgment for the judgment of

1 NCEMC about their needs?

2 A No. What we're saying is the Applicant did not
3 meet the burden of proof in demonstrating NCEMC's
4 needs.

5 A (Lawrence) And we're not attempting to judge what
6 NCEMC needs and or what they don't need. We're
7 simply saying that that proof is not in this
8 docket. We haven't seen it as evidence in here
9 so we don't believe that burden has been met.

10 Q Okay. And NCEMC's filing stating that they have
11 a need is insufficient in your minds?

12 A (Metz) I didn't read it as them having stating --
13 can you point to me where they say they stated or
14 they absolutely needed -- needed it?

15 Q They said that it would help them reach their
16 brighter energy future goals.

17 A Right. Help is not a need.

18 A (Lawrence) I would not characterize what they
19 had said they needed to meet their goal but their
20 goal is not a need in itself. It is a goal, a
21 want by them, something that they're trying to
22 achieve but if they don't achieve it then there
23 are no -- the consequences are not the same as
24 they would be for a legal action or something of

1 that nature.

2 A (Metz) Say, for example, if NCEMC was to file
3 evidence, or the Applicant was to file evidence,
4 say if we did not sign this contract our lights
5 would turn off for our members, that would have
6 weight in the overall conversation; however, that
7 was not mentioned by NCEMC nor the Applicant.

8 Q Thank you. And I appreciate the conversation
9 about goals versus needs. We're going to circle
10 back to that in a minute. But I want to look now
11 at some of the network issues that are going on
12 in the DEP east service territory.

13 Friesian Witness Askey testified
14 in his rebuttal that while technically NERC
15 compliant the grid will be far more vulnerable to
16 disruption than it would be if the Friesian
17 network -- excuse me, if the Friesian upgrades
18 are built. Do you recall that testimony?

19 A Yes.

20 Q Do you agree that the Friesian upgrades will
21 provide reliability benefits?

22 A Trying to just take that into consideration about
23 what do you mean by reliability. If I'm defining
24 reliability as a need to meet ramping constraints

1 on the overall system by the injection of energy
2 by a non-dependable intermittent resource, then
3 no, not directly. There could be secondary
4 benefits, but it's not one-to-one.

5 A (Lawrence) And additionally, just because it
6 would increase reliability that doesn't mean what
7 is currently there is not sufficient to meet the
8 reliability requirements currently in place.

9 A (Metz) If the existing system was at the state of
10 failure, I believe Duke Energy Progress would be
11 already making plans because they're responsible
12 as the BA to make those needed repairs or
13 upgrades on the overall system. But as the
14 application here before us is the facility
15 requesting to interconnect or to interject energy
16 into the system is the catalyst or an inflection
17 point it is causing the need to upgrade, not the
18 other way around.

19 Q So as a policy would you agree that it's better
20 to go beyond the bare minimum necessary to
21 maintain NERC compliance and other reliability
22 standards?

23 A Well, I'm not going to be up here saying I make
24 policy decisions, but when I have to evaluate the

1 overall cost of going to the next tier of say
2 reliability that creates a challenge in itself.

3 Q So is that a yes or a no?

4 A So I say this, I'm not making a policy decision.

5 And so when you evaluate the cost -- when you
6 evaluate the gains and reliability there is a
7 cost element. And the reliability elements
8 specific to this project as presented by the
9 Applicant appears that it's only needed for -- to
10 interconnect the facility. Everything else is
11 secondary.

12 A (Lawrence) And commonly when evaluating safety
13 measures of any kind or reliability measures
14 there is a factor of safety already built in to
15 those measures so that it's -- you're not
16 reaching some kind of a catastrophic failure if
17 you go above say the rating of a line it's not
18 going to cause the line to snap under something
19 such as that unless you're reaching well over
20 what the intended ratings are for. There is an
21 amount built in there to compensate for that.

22 Q Kind of like a reserve margin for generation?

23 A (Metz) Mr. Lawrence is referring to the
24 engineering safe margin typically built into

1 certain components.

2 Q Okay. So I do want to shift gears and talk about
3 another place where there's a NERC standard and
4 that is the reserve margin for generation. The
5 NERC required reserved margin is 15 percent; is
6 that correct, subject to check?

7 A Can you provide that standard? I'm just trying
8 to say where the NERC explicitly calls out
9 15 percent. Can you provide that standard so I
10 can review it in its entirety?

11 Q I don't have it on me so we'll move on to
12 something else.

13 So can you explain to me why it's
14 appropriate for DEP's transmission system to
15 remain constrained?

16 A So why is it appropriate for the DEP system to
17 remain constrained. So if I had to evaluate --
18 so if the utility went and did a quarter billion
19 dollar upgrade into their system and came in and
20 sought cost recovery, it would be scrutinized
21 through a general rate case no different than if
22 it was \$10 million, \$100 million. And if part of
23 the investigation we reviewed it says hey your
24 existing system is fine. Based upon projected

1 load growth, projected demand, projected
2 generation, we didn't need this asset to be built
3 for the next 10 years, 15 years, 20 years, 30
4 years. We would probably be proposing an
5 adjustment to the utility not for cost recovery
6 and, therefore, shareholders would be picking up
7 that quarter billion dollar cost.

8 Q So did I hear you to say that constrained is
9 fine?

10 A I'm saying you have -- when spending money into
11 the electrical grid it has to be at the right
12 place at the right time. Constrained systems can
13 occur all over the system. That's why we have
14 the multiple -- through the NERC standard the "P"
15 codes that allows one to evaluate sort of a risk
16 matrix approach to target critical areas in the
17 electrical grid for investment. Constrained does
18 not mean bad.

19 Q So when was the issue of the constrained
20 infrastructure in the DEP's service territory
21 first identified?

22 A DEP would be the best person to address that. My
23 general understanding was there were multiple
24 conversations with DEP through interconnection,

1 approximately 2016-2017 time period. But again,
2 DEP would be the best person to answer that.

3 Q And would you agree, subject to check, that
4 witnesses in this docket have cited to in Duke
5 Witness Gary Freeman's testimony from
6 November 19, 2018, in the interconnection docket,
7 that there was a constrained infrastructure
8 issue?

9 A Yes.

10 Q All right. And since that time what has the
11 Public Staff done to resolve any transmission
12 constraints in DEP's service territory?

13 A The Public Staff is not the BA and is not
14 required to do or -- yeah, it's not required to
15 do the transmission modeling to make them in
16 compliance to NERC standards.

17 Q Would the Public Staff support an explicit policy
18 that no new utility scale solar could be built in
19 DEP's eastern service territory?

20 A I'm not up here to make policy decisions.

21 Q Do you agree with Duke, as they stated in their
22 letter, that if Friesian's CPCN is rejected,
23 quote, the most likely outcome in the short term
24 would be a cascading series of withdrawals

1 resulting in complete paralysis of the
2 interconnection queue in this portion of DEP's
3 service territory?

4 A Emphasis on this, their words, but again emphasis
5 on their portion in the overall system. There
6 are still lots of other areas in the system that
7 can be interconnected and utilized and compliment
8 the overall system.

9 Q So by opposing the CPCN in this proceeding, is
10 the Public Staff supporting an implicit policy
11 that no new utility scale solar should be built
12 in DEP's eastern service inventory?

13 A No, I don't believe so. I believe the facts and
14 circumstances of this particular case don't
15 support.

16 Q All right. Thank you. I want to switch gears
17 and look at some alternatives to the 220 odd
18 million dollars that have been identified for
19 this.

20 Do you have reason to dispute
21 Friesian witness Askey's testimony that the
22 cumulative upgrades comprised the lowest cost
23 solution to the problem?

24 A (Lawrence) The problem right now -- as we stand

1 today there is not a problem. The problem comes
2 up after another generator connects. And that
3 generator is the one that causes the problems.
4 Once you've -- that would put it over that
5 threshold. So that statement -- it creates
6 that -- I'm sorry. Excuse me. So that is a
7 clarification that I think is important to note,
8 yeah, to note because without another generator,
9 without additional generation that has already
10 been taken up on this line, there is no problem.

11 Q So you state in your testimony that due to
12 technological changes there also may be other
13 alternatives identified to help defer -- excuse
14 me, to help avoid or defer costly transmission
15 upgrades, correct?

16 A (Metz) That is correct.

17 Q And do you believe that there are currently any
18 alternatives that could avoid or defer the
19 upgrades necessary to interconnect Friesian?

20 A So there's multiple components to that statement.
21 So as the Public Staff has stated many times in
22 its IRP comments that we continue to look
23 at non-wire alternatives for the overall system,
24 that can be DSM, EE, load control, other

1 elements. Again, the particular component that
2 makes this a unique circumstance that we've heard
3 is while we can implement DSDR, we can implement
4 DSM, we can implement EE, those are load
5 reduction programs. We are talking about the
6 southeast where there is lower load growth than
7 the rest of North Carolina that's growing. So
8 while you can look at non-wire alternatives, it
9 will have lesser help or relief in parts of the
10 states where load growth is not growing. So what
11 that means is we need to potentially have
12 renewable generation located closer to load
13 centers to get a better bang for your buck and to
14 compliment the overall system.

15 Q I understand that's the Public Staff's position
16 but that's not responsive to the question that I
17 asked. Are there lower costs available --
18 options available to interconnect Friesian?

19 A Well, the lower cost alternative is that Friesian
20 does not interconnect because the system is fine
21 and ratepayers don't have to pick up the tab.

22 Q But Friesian has a right to have access to the
23 grid, correct?

24 A Yes, Friesian has a right to have access to the

1 grid.

2 Q Thank you. Moving ahead, in your joint testimony
3 you state that the Public Staff agrees that
4 costly investments in the siting of new
5 transmission and generation should be evaluated
6 and decided through comprehensive system
7 planning, utilizing processes such as the IRP,
8 ISOP, distribution system planning and
9 competitive bidding processes like the CPRE
10 program or short-term market solicitations rather
11 than by individual CPCN applications; is that
12 correct?

13 A That's correct. And we try to evaluate --
14 attempt to evaluate things on a more holistic
15 whole planning approach while we're reaching
16 these inflection points on the overall system.

17 Q So are any new transmission -- is any new
18 transmission being constructed for the Friesian
19 network upgrades or are there upgrades to the
20 existing transmission system?

21 A Upgrades to the overall transmission system are
22 constant -- isn't quite -- is not quite the right
23 word but they're always occurring. But Duke
24 Energy Progress would be the best to talk about

1 what constructions are occurring where on the
2 overall system at this given point and time and
3 what they're next three-year plan is.

4 From the Public Staff's view, we
5 look at it from a rate case on what has been
6 built and we look at it when certain thresholds
7 are met for CEPCN applications which has its
8 regulatory requirements of when it triggers a
9 review.

10 Q And Duke is not in for a C -- Certificate of
11 Environmental, CECPN -- Duke's not in for a CECPN
12 for new transmission, correct, related to this
13 project?

14 A No.

15 Q Thank you. Does North Carolina have
16 comprehensive system planning?

17 A On a -- so from a IRP -- when you say
18 comprehensive, that we would take Dominion's
19 service territory with DEP service territory with
20 DEC service territory, I would not call it
21 comprehensive to that regard. However, I do view
22 the IRPs as to be a comprehensive plan for the
23 utility.

24 Q For the utility. And the off-taker of Friesian's

1 electricity is NCEMC, correct?

2 A That is correct.

3 Q And we've established they do not file an IRP?

4 A That is correct. But they're going to be
5 utilizing the DEP transmission system.

6 Q Has Duke implemented ISOP?

7 A It's in the process of review and stakeholders
8 input and it's still maturing.

9 Q And when do you expect it to be available for
10 use?

11 A I do not know.

12 Q Subject to check with some of your colleagues,
13 you attended the ISOP meeting a couple of weeks
14 ago, if you weren't there, would you agree that
15 Duke says it will not be implemented until 2022?

16 A I presented on that panel and, yes, I know it's
17 going to take some time, but I don't have a date
18 certain.

19 Q Okay. Is Friesian proposing to interconnect to
20 the distribution system?

21 A No.

22 Q Why is the lack of distribution system planning
23 relevant in this instance?

24 A Well, I would say it's -- if you wanted to

1 interconnect a 70-megawatt facility into the
2 distribution system you would have some
3 challenges.

4 Q I don't disagree. But I'm asking why
5 distribution system planning is relevant to
6 Friesian?

7 A Why a distribution planning system is relevant to
8 Friesian. When you look at the larger scale that
9 1 megawatt, 5 megawatt rooftop solar all are
10 needed to compliment the overall system. So when
11 you looked at centralized generation always power
12 was flowing out of that node. Well, if this is
13 the house sitting over here and this is say
14 Belew's Creek, well that was the power flow.
15 Well, and if that's the transmission line, well
16 Friesian is trying to connect somewhere in
17 between. But we also have to take into
18 consideration the cumulative impacts of all of
19 the other renewable energy trying to interconnect
20 on different parts of the system. So if you
21 looked at a power flow analysis it would be a
22 cumulative impact as we have continued
23 penetrations as the cumulative impact because by
24 the time we get backup to Belews Creek in this

1 hypothetical example this won't be 70 megawatts
2 it's going to be the summation of all the nodes
3 going back to that point. So it could be a
4 hundred or higher, lower.

5 Q So has the Public Staff petitioned the Commission
6 to open dockets on any of these issues?

7 A Not to my knowledge, no.

8 Q And have any stipulations between the Public
9 Staff and Duke resulted in new dockets being
10 opened to investigate any of these issues?

11 A We have raised our concerns in different dockets
12 highlighting some of these issues that continue
13 to grow.

14 Q So until all of these systems that you named in
15 your testimony are in place, should the
16 Commission reject all CPCNs for new generation?

17 A All CPCNs for new generation? No. However, we
18 request that they deny the application based upon
19 the information that we laid out before.

20 Q Should the Commission reject only CPCNs for
21 merchant plants?

22 A No. We -- for Lincoln County CT filed testimony
23 and not approving that and that was a Duke Energy
24 Carolinas. And again for Asheville combustion

1 turbine, we recommended approval for the combined
2 cycle that also denied the combustion turbine
3 element.

4 Q Thank you. I want to turn to the transmission
5 planning collaborative. And you note in your
6 testimony that Friesian's network upgrades have
7 not been identified by the North Carolina
8 Transmission Planning Collaborative, correct?

9 A Correct.

10 Q Has the North Carolina Transmission
11 Collaborative -- Transmission Planning
12 Collaborative studied Duke's power forward
13 proposal?

14 A Can you state that one more time?

15 Q Has the Transmission Planning Collaborative
16 studied Duke's power forward proposal?

17 A I do not know.

18 Q Do you know if the transmission planning
19 collaborative has studied Duke's new grid
20 improvement plan?

21 A I don't know. But I want to potentially talk
22 about the TPC or what goes into the overall
23 process that as a --

24 Q Well, I understand and NCSEA participates in the

1 TPC --

2 A Okay. But I'm talking to the Commission and
3 maybe they don't understand all the inputs that
4 go into it as much as me and you do and actually
5 have contributed in those committees.

6 Q I would appreciate that if you answered
7 questions, but I thank you.

8 Are you familiar with the carbon
9 reduction goals in the Clean Energy Plan?

10 A Are you talking about the DEQ unapproved Clean
11 Energy Plan?

12 Q The Clean Energy Plan that was released, I
13 believe it was last month by DEQ.

14 A Yes. Currently still going through iterations
15 and trying to work our way through the overall
16 process.

17 Q Do you have a copy of Public Staff Friesian Panel
18 Cross Exhibit Number 7? I can see one right
19 there.

20 A They're not numbered.

21 A (Lawrence) This one is not marked.

22 A (Metz) If you want to come bring one or counsel
23 or --

24 Did you say Number 7?

1 Q I believe that's how your counsel had identified
2 it.

3 A You want to talk about that one? (Referencing
4 document)

5 Q Are you familiar with this document?

6 A Yes, I have reviewed it.

7 Q Thank you. And would you agree that the goals
8 contained in this document are to reduce electric
9 power sector greenhouse gas emissions by
10 70 percent, below 2005 levels by 2030, and attain
11 carbon mutuality by 2050?

12 A Yes. That is the goal but, however, we still
13 have to implement the plan to get there.

14 Q Great. And the carbon reductions in the Clean
15 Energy Plan are goals, correct; they're not
16 statutory mandates?

17 A Correct.

18 Q Does the Public Staff believe that the Commission
19 should attempt to achieve the goals of the Clean
20 Energy Plan?

21 A Maybe under the purview of what the Commission
22 and how they interpret it when they should start
23 implementing a plan when we don't have, at least
24 in my opinion, a bigger picture or holistic plan

1 of how to meet those. I guess where I'm going at
2 is if we have a problem, if we have a leak in the
3 wall and we start putting our finger on one, are
4 we going to cause a bigger leak to pop out
5 somewhere else. We need to look at overall
6 impacts and especially if we start talking about
7 large costs on an electrical system to transform
8 it and meet the overall plan once it's laid out.

9 Q So if Friesian is granted a CPCN in this
10 proceeding, do you know when it will come online?

11 A I don't know the date certain that it will come
12 online, no.

13 Q Subject to check, and it's contained in Witness
14 Bednar's supplemental testimony, would you agree
15 it's December of 2023.

16 A That's the potential date that it can come
17 online. But with any construction project and
18 especially one that's approximately 70 miles with
19 limited times that you can take out the
20 transmission system, spring and fall, hurricanes
21 in the Carolinas, that date might slip.

22 Q So we can agree that the earliest it will come
23 online is December of 2023?

24 A I can't agree to that because I don't know what

1 headway is going to be made in certain planning
2 activities. I can agree that the witnesses have
3 stated that they plan on getting it online in
4 December of 2023.

5 Q Are you familiar with Witness Bednar's testimony?

6 A Yes.

7 Q Would you agree that he testified that without
8 the upgrades -- excuse me, without Friesian the
9 upgrades could not be put in place until 2027?

10 A Can you turn me to that so I can take it in
11 context? I mean, subject to check, whatever he
12 testified to he testified to.

13 Q Subject to check. So it's currently
14 December 2019, can we agree on that?

15 A Yes.

16 Q Thank you. So we're talking about a four-year
17 period necessary for Friesian to come online?

18 A Correct.

19 Q All right. So the first submission's milestone
20 complained (sic) in -- first emissions milestone
21 contained in the Clean Energy Plan is 2023,
22 correct -- excuse me, 2030, correct?

23 A Subject to check.

24 Q And that gives us about 10 years to reach that

1 date, correct?

2 A Correct.

3 Q So without the Friesian network upgrades more
4 than half of DEP's service territory will be off
5 limits to solar until 2027, correct?

6 A The southeastern part where the level of
7 penetrations being requested by Friesian would
8 have limitations interconnecting to the overall
9 system. I wouldn't go as far as to say off
10 limits.

11 Q So 2027 to 2030, three years, does that give
12 enough -- give the state enough time to meet the
13 goals of the Clean Energy Plan?

14 A I don't know. But are you also making an
15 assumption that we can't interconnect other
16 renewable generation to help that target in other
17 parts of the state.

18 Q In its letter, Duke states that regardless of the
19 precise GHG emissions target substantial amounts
20 of new renewable resources will be needed. Do
21 you agree with this statement?

22 A That's their statement, yes.

23 Q Do you agree with it?

24 A I don't know how they calculated or derived its

1 overall values, which we testified to yesterday.

2 Q Do you agree that waiting until 2027 or 2028 to
3 begin installing these renewable resources would
4 result in technical and logistical issues?

5 A It requires too much speculation.

6 Q So wouldn't it be prudent to begin installing
7 these renewable resources now, especially since
8 they have a 10-year development timeframe?

9 A The Public Staff is not denying that renewable
10 resources should not be built. They should be
11 built to compliment the overall system and placed
12 into areas in the system where it's needed.

13 Q Thank you. Who does the Public Staff represent?

14 A The General Using and Consuming Public.

15 Q So does the Using and Consuming Public benefit in
16 the form of lower rates when costs are shifted
17 from them to solar developers?

18 A Can you state that one more time, please?

19 Q If costs are shifted from the Using and Consuming
20 Public to solar developers, does the Using and
21 Consuming Public benefit?

22 A That's one component of a benefit if you're only
23 looking at a rate impact.

24 Q So in an exchange yesterday with Ms. Kemerait you

1 stated your belief that Mr. DeMay may have a
2 bias. Do you recall that exchange?

3 A Yes, I do.

4 Q So do you believe that in this docket the Public
5 Staff is unbiased?

6 A No. We have a bias and I'll fully admit that.

7 Q Thank you. And are you familiar with the
8 testimony of Public Staff Witness Jay Lucas in
9 the recent interconnection standards docket?

10 A I don't have his testimony memorized offhand.

11 MR. LEDFORD: May I approach?

12 (Mr. Ledford hands the panel a document)

13 Q On Page 5 of his testimony, would you agree that
14 Mr. Lucas states that however the Public Staff
15 cannot act as a completely independent evaluator
16 of all issues in this case as stated in NC
17 General Statute § 62-14.15 -- excuse me, § 15(b)
18 the purpose of the Public Staff is to represent
19 the Using and Consuming Public versus the general
20 public. Therefore, our recommendations of the
21 Public Staff in this proceeding reflect its
22 efforts to protect the Using and Consuming Public
23 from absorbing unreasonable risks, costs, and
24 service degradation. To the extent they are

1 quantifiable, the Public Staff must also
2 determine the benefits to the Using and Consuming
3 Public.

4 A That is correct.

5 Q All right. And if you'd flip forward to the next
6 tab on Page 37. I believe it's marked with a
7 pink sticky note.

8 A Go ahead.

9 Q Would you agree that Mr. Lucas testifies that the
10 Public Staff agrees with NCSEA that it is not a
11 neutral facilitator for purposes of disputes? As
12 discussed above, the Public Staff's primary goal
13 is to protect the Using and Consuming Public, not
14 DG developers.

15 A That is correct.

16 Q So would you agree that in this proceeding we
17 have an instance where the interest of the Using
18 and Consuming Public who the Public Staff is
19 charged to represent and the interest of the
20 general public in terms of clean energy, carbon
21 reductions, and other things may diverge?

22 A Yes, they may diverge.

23 Q Thank you.

24 CHAIR MITCHELL: Mr. Snowden.

1 MR. SNOWDEN: Thank you, Madam Chair.

2 Mr. Metz and Mr. Lawrence, good afternoon.

3 I'm Ben Snowden with Kilpatrick Townsend here for

4 NCCEBA. I just have a few questions.

5 CROSS EXAMINATION BY MR. SNOWDEN:

6 Q And I would like to start with Mr. Jirak's letter

7 that was filed in this docket. It was discussed

8 some yesterday. I believe it is Cross

9 Examination Exhibit 5.

10 A (Metz) Okay.

11 Q So in Mr. Jirak's letter he said that if the

12 Friesian project is not constructed the need for

13 the Friesian upgrades will not go away; is that

14 right? I'm looking on Page 3 here. The first

15 full paragraph under .2.

16 COMMISSIONER DUFFLEY: What page are you on?

17 I'm sorry I couldn't hear you.

18 MR. SNOWDEN: I'm sorry. I'm on Page 3 of

19 Mr. Jirak's letter in the first full paragraph under

20 bullet 2.

21 A Just one second while I read the whole paragraph.

22 Q Sure.

23 A I cannot speak for Mr. Jirak, but how I am

24 interpreting his need is by stating that the

1 projects behind it would be then needed in order
2 for the projects behind it would need the
3 capacity granted by the Friesian facility.

4 Q Okay. Well, let me just repeat my question. So
5 in Mr. Jirak's letter he says -- he says that if
6 the Friesian project is not constructed the need
7 for the Friesian projects will not go away; is
8 that right?

9 A Right. And I'm reading the remainder of the
10 paragraph that gets context in the first
11 sentence. I can't speak on what Mr. Jirak meant
12 or did not mean.

13 Q Okay. Well, is it your understanding that
14 because -- well, that the reason for the
15 statement is that because under the serial
16 interconnection process the responsibility for
17 the Friesian upgrades would fall on the next
18 project in the queue that triggers those
19 upgrades?

20 A That is correct.

21 Q And there's not currently a mechanism under the
22 North Carolina interconnection procedures for the
23 cost of network upgrades to be allocated among
24 projects; is that right?

1 A That's correct.

2 Q And you and Mr. Ledford talked a few minutes ago
3 about Mr. Jirak's statement that the most likely
4 outcome in the short term of the Friesian project
5 being withdrawn is a cascading series of
6 withdrawals resulting in complete paralysis of
7 the interconnection queue in that portion of
8 DEP's service territory.

9 A Yes, that's what Mr. Jirak stated.

10 Q Okay. And just to be clear, it's your
11 understanding that complete paralysis would not
12 be limited to solar projects in that portion of
13 the service territory; is that right?

14 A That would be correct in that portion of the
15 state.

16 Q So it would affect all projects that might want
17 to interconnect in that portion of the state?

18 A That is correct.

19 Q Okay. So moving on to your testimony you
20 mentioned -- and this is on Page 28.

21 A Okay.

22 Q So you mention in your testimony that the Clean
23 Energy Plan recommends grouping studies as one
24 means to facilitate the interconnection of

1 distributed energy resources?

2 A Yes.

3 Q And are you generally of the view that a
4 transition to a grouping study model for
5 interconnection is a good idea?

6 A Yes, I am.

7 Q And you're aware that Duke is exploring a
8 grouping study mechanism as part of its current
9 queue reform efforts?

10 A Yes, I am.

11 Q And the mechanism for grouping studies might
12 allow the cost of network upgrades to be
13 allocated among multiple projects?

14 A That's correct. So to help with that overall
15 movement as we continue to look forward, I
16 believe the FERC just ruled on PSCo on approving
17 their plan for grouping studies. So hopefully we
18 can extract some lessons learned from PSCo and
19 continue to move forward and don't have to
20 recreate the entire wheel.

21 Q Thank you for that. So going back to Mr. Jirak's
22 letter, on Page 4 Mr. Jirak points out that one
23 of the key challenges in implementing a queue
24 reform is transitioning from the serial queue to

1 the grouping study model. Would you agree with
2 that?

3 A Yes. And there's going to be some challenges
4 when we get to that point in time.

5 Q So again, in Mr. Jirak's letter he says that if
6 the Friesian upgrades are not constructed at this
7 time the transition process will be much more
8 complex and the transition may be delayed; is
9 that right?

10 A That's what Mr. Jirak states. Yes.

11 Q Okay. Do you have any reason to disagree with
12 that?

13 A No, I do not.

14 Q Okay. And so you've also read Mr. DeMay's letter
15 filed in this docket; is that right?

16 A That's correct.

17 Q So on the first page of Mr. DeMay's letter he
18 says that one of the benefits of the Friesian
19 upgrades is that they will minimize certain
20 short-term challenges associated with the Duke
21 Utilities' queue reform plans; is that right?

22 A Can you --

23 Q Sure. That's the second full paragraph, the last
24 sentence, .3 there where he talks about benefits.

1 A Yes, that is correct.

2 Q And would you interpret that to also refer to the
3 transition to a cluster study model?

4 A I believe that could be part of it. Yes.

5 Q And you don't disagree with Mr. DeMay's and
6 Mr. Jirak's assessment of how the Friesian
7 upgrades will impact their company's queue reform
8 plans, do you?

9 A Well, I don't -- I don't draw a strong
10 correlation of why queue reform has to address
11 Friesian specifically. With the success of
12 generation occurring on this part of the system,
13 we're just at a unique spot or we're at the
14 tipping point where we're triggering substantial
15 upgrades.

16 Q So you don't understand what -- you don't
17 understand how -- I'm sorry. Let me back up.
18 You don't understand the connection that
19 Mr. DeMay and Mr. Jirak draw --

20 MR. DODGE: Chair Mitchell --

21 I'm sorry, Mr. Snowden. Go ahead and finish
22 your statement. I apologize.

23 MR. SNOWDEN: Okay. Sure. Thanks.

24

1 BY MR. SNOWDEN:

2 Q So you don't understand the connection that
3 Mr. Jirak and Mr. DeMay draw between the Friesian
4 upgrades and the transition to a cluster study
5 model?

6 MR. DODGE: Chair Mitchell, I'd like to
7 object. I think yesterday we stipulated that to these
8 two -- the words in these two documents, the letter
9 from Mr. DeMay and the letter from Mr. Jirak, these
10 are already in the record. I'm not sure why we're
11 repeating what those witnesses, not those witnesses,
12 what those statements of position say again today.

13 MR. SNOWDEN: I'm not using this
14 to bootstrap this into evidence. I'm just asking as I
15 would with any other document, asking the witnesses
16 questions about their understanding of what's in this
17 letter and whether they agree or disagree with it.
18 And I won't have very many questions about it.

19 CHAIR MITCHELL: All right. Mr. Snowden, we
20 did stipulate to the fact that the letters say what
21 they say. There are no witnesses here to swear to
22 those, the statements made in those letters. They are
23 in the nature of public comments and these gentlemen
24 did not write these letters so please move quickly

1 through your comments and questions with all of this
2 in mind. And I'd ask that you keep --

3 MR. SNOWDEN: I will be brief on it. I'm
4 almost at the end. So thank you.

5 BY MR. SNOWDEN:

6 Q So, Mr. Metz, do you recall the conversation I
7 had yesterday with Mr. Bednar when he was on the
8 stand about the Friesian upgrades?

9 A Yes. Vaguely, yes.

10 Q And do you recall him testifying that if the
11 Friesian upgrades are not constructed that the
12 cost of those upgrades would somehow have to be
13 allocated among all of the subsequent projects if
14 we were to transition to a cluster study model?

15 A Yes.

16 Q And that -- as yet there's not a mechanism under
17 the interconnection procedures or any other law
18 of North Carolina for doing that allocation of
19 cost?

20 A That's correct.

21 Q And you'd agree with that?

22 A Yes.

23 Q So do you recall that Mr. Bednar also testified
24 that we'd essentially have to go back to square

1 one with figuring out how to allocate those costs
2 and how to get those upgrades constructed if
3 Friesian was canceled?

4 A If he's referring to square one of what business
5 decision that he needs to make on behalf of
6 Friesian then that's for his prerogative.

7 Q I'm sorry if I wasn't clear. Square one was my
8 phrase. It didn't refer to Friesian's business
9 plans, it was -- what I was referring to was the
10 fact that the upgrades will need to be
11 constructed. Friesian is fairly far down the
12 line in terms of figuring out both how they'll be
13 constructed, how'll they'll be financed, when
14 they'll be constructed, all that good stuff, and
15 that for the upgrades to be constructed by a
16 different set of projects, all that work would
17 have to be re-done in some way?

18 A I don't know who the next applicant in line is
19 and how far down the process they have gotten. I
20 can agree to that if Friesian withdraws the cost
21 will be passed onto the next person in line.

22 Q Okay. But would you anticipate there would be a
23 substantial delay in figuring out how those
24 projects are going to get -- I'm sorry, how those

1 upgrades would be constructed by those other
2 projects?

3 A It would be a delay.

4 Q Thank you.

5 MR. SNOWDEN: I don't have any further
6 questions.

7 CHAIR MITCHELL: Redirect, please.

8 MR. DODGE: Thank you, Chair Mitchell. I'll
9 kind of work backwards the way my notes are structured
10 here. So starting with a couple of questions that
11 Mr. Ledford raised just a few moments ago.

12 REDIRECT EXAMINATION BY MR. DODGE:

13 Q Mr. Metz, I think you indicated, and he shared a
14 copy of Mr. Lucas' testimony with you from the
15 E-100, Sub 101, the interconnection docket last
16 year?

17 A Yes, he did.

18 Q And again, Mr. Lucas testified to that and we had
19 an extensive evidentiary hearing on that
20 proceeding. And the Commission in its Order
21 accepting the modifications in the
22 interconnection docket did it not direct the
23 utilities to file testimony in their next rate
24 case addressing some of the questions about the

1 benefits that distributed generators are
2 receiving from the utility system estimating
3 their share of the related cost and providing
4 options for fully recovering those costs?

5 A Yes, they did and I was part of that proceeding.

6 Q And as a result of that statement, did Duke in
7 the most recent two rate cases, Duke Carolinas
8 and Duke Progress, both requested a waiver from
9 the filing of that testimony in order to conduct
10 stakeholder groups --

11 A Yes, they did.

12 Q -- to address that issue?

13 A Yes.

14 Q And have you participated or members of the
15 Electric Division participated so far in those
16 discussions?

17 A Yes, members of the Electric Division have.

18 Q Thank you. Mr. Ledford also asked has the Public
19 Staff agreed to any settlements or made
20 any recommendations to the Commission about some
21 of these challenges with adopting or
22 interconnecting additional solar generation in
23 North Carolina. Are you familiar with the
24 stipulation that the Public Staff entered into in

1 the E-100, Sub 101 docket on January 25th, 2019,
2 in which we recommended that the Commission
3 implement a reform, queue reform including a
4 stakeholder process?

5 A Yes.

6 Q Okay. Thank you. So going back to some of the
7 discussion we had yesterday -- excuse me.
8 Yesterday, Mr. Metz and Mr. Lawrence, you both
9 discussed with Mr. Levitas some of the -- the
10 level of independent review that we conducted in
11 reviewing the CPCN application. And, Mr. Metz, I
12 believe you already indicated this morning that
13 it's your understanding that the Applicant has a
14 burden of demonstrating the projects in the
15 public interest.

16 A That is correct.

17 Q Did we evaluate the information submitted by the
18 Applicant?

19 A Yes, we have.

20 Q And did we also do some independent evaluation?
21 Did we conduct discovery or look at other
22 potential cost and benefits?

23 A Yes. We initiated discovery, went out there to
24 the extent possible and tried to do independent

1 review and evaluate the overall application.

2 Q And I believe you may have acknowledged this this
3 morning but just to confirm, in addition to
4 helping NCEMC with its REPS obligations and
5 greening its load, you acknowledge there could be
6 some other potential benefits associated with the
7 upgrades that result from the Friesian project?

8 A Yes. I mean, it's the possibility that benefits
9 can occur in the -- can occur with the addition
10 of this transmission line upgrade.

11 Q Okay. Yesterday Ms. Kemerait asked you about
12 whether Duke had shared its position with us in
13 advance of the position statements that were
14 filed on the same day we filed testimony, whether
15 those documents were shared with us in advance of
16 filing. Do you recall that discussion?

17 A Yes, I do.

18 Q And, subject to check, would you agree that those
19 documents were received by our legal team at
20 5:31 p.m. on Thursday the 5th, and our testimony
21 was filed on Friday, December 6th?

22 A That is correct, subject to check, yes.

23 Q Thank you. Excuse me. So yesterday Mr. Levitas
24 was asking a series of questions about the public

1 convenience and necessity and the need standard
2 in particular. And, Mr. Metz, I think you at one
3 point said it depends on how you define need. Do
4 you remember that discussion?

5 A Yes, I do.

6 Q So do you see need just as meaning one thing in
7 the context of the necessity for a CPCN? Is it
8 only the projected load or electric output that's
9 needed?

10 A No. And that's part of the challenging part or
11 where it's elastic or interdependencies. There
12 is components of the need that aren't mutually
13 exclusive of one another.

14 To take the application at hand,
15 one component is what does the system -- how does
16 the system exist right now and whether or not the
17 system needs it. So let's take that from the
18 lights going out and going black or reliability.
19 The system doesn't need that at this point right
20 now. The upgrades are only needed because we're
21 interconnecting a new facility. The existing
22 system is relatively fine. If it's not -- if it
23 was not Duke would already have a plan to be
24 having repairs made or upgrades made on that

1 system. That's one component of it.

2 Another element is looking at
3 the -- how the system operates. What does the
4 system need to meet generation. That's where we
5 often lean to the Integrated Resource Plan. So
6 looking at the IRP, well, the Duke Energy
7 Progress which this Friesian is interconnecting
8 into is going into DEP, and they are the
9 balancing authority, and it's ultimately who DEP
10 ratepayers will be picking up the tab for the
11 facility.

12 What does the project need? As we
13 filed in testimony, we laid out and it says okay
14 we'll look at the capacity factor that we have
15 during the summer. Look at the capacity
16 factor -- when I say capacity factor, reserve
17 margin, sorry, the reserve margin that we have
18 during the summer. Look at the reserve margin
19 that we have during the winter. The reserve
20 margin during the summer is nearly twice as much
21 than we have during the winter. The DEP system
22 is being built out to meet the winter demand and
23 winter peak. Part of that reason was I believe
24 in 2016, 2018, we at the success of solar in the

1 Duke systems have pushed us to more of a winter
2 planning because the sun is not shining at six or
3 seven a.m. when we're having demand on the
4 system. As the success of solar has increased,
5 2000, 3000, 4000 megawatts, that amount has to be
6 met in the morning. These are all components of
7 the overall need. I believe there are other
8 policies, for example, Senate Bill 3 and REPS
9 compliance. I'll let Mr. Lawrence talk a little
10 bit more about the REPS compliance.

11 A (Lawrence) The needs stated in there, I think any
12 issues we've had with that have largely been
13 addressed several times over at this point and
14 have been related to swine and poultry waste
15 set-aside issues. The general set-aside and
16 solar set-aside have been met quite substantially
17 and the issues to that are very, very limited if
18 any in a REPS sense and that holds -- that's for
19 all power suppliers, NCEMC included. And in most
20 recent filings, I've seen nothing where any of
21 the power suppliers have indicated any concerns
22 with meeting a solar general set-aside
23 requirement.

24 Q So, none the less, in terms of these various,

1 whether it's a requirement or a goal, policy goal
2 or a legal obligation, has Friesian, do you
3 believe, established a need in this case,
4 demonstrated a need?

5 A Partially. Well, I say partially because you
6 have to take all of these multiple needs into
7 consideration. When you waive the components of
8 the need versus a necessity and the upgrade cost
9 in this particular project then no.

10 Q And so in terms of once you've demonstrated a
11 need does that mean any generation is appropriate
12 to meet that need or is the -- as you just
13 described the need going to be -- because of the
14 various elements one type, one size is not going
15 to fit all to meet that demonstrated need?

16 A I mean, to your word, one size fits all is --
17 would not demonstrate the need. I believe the
18 facts and circumstances at the particular time
19 and the particular application all have been
20 taken into consideration.

21 MR. DODGE: Ms. Layla -- Ms. Cummings, I'm
22 sorry, has a few questions as well.

23 MS. CUMMINGS: Thank you.

24 REDIRECT EXAMINATION BY MS. CUMMINGS:

1 Q Mr. Lawrence and Mr. Metz, Mr. Ledford asked you
2 whether the Public Staff's general charge in
3 representing the Using and Consuming Public can
4 come into conflict with the interest of the
5 general public when speaking about achieving
6 clean energy goals. Would you agree in general
7 that the Friesian project is just one avenue to
8 achieving those goals and that carbon reduction
9 would also be in the interest of the Using and
10 Consuming Public?

11 A (Metz) That is correct. And one also has to
12 weigh the costs associated with each one of the
13 goals or implementations to meet that goal.

14 Q And along those same lines, both Ms. Kemerait and
15 Mr. Ledford asked if it's important at this time
16 to be adding renewable energy to the grid to
17 specifically meet the 70 percent emissions
18 reductions goal of the Governor. Subject to
19 check, would you agree that it is the case right
20 that you or other members of the Electric
21 Division are currently participating with DEQ and
22 other stakeholders on a report at the end of 2020
23 on how best to achieve those reductions?

24 A Yes, they are.

1 MS. CUMMINGS: Thank you. That's all.

2 CHAIR MITCHELL: Questions by the
3 Commission? Commissioner Clodfelter.

4 EXAMINATION BY COMMISSIONER CLODFELTER:

5 Q Gentlemen, I appreciate in multiple senses of the
6 word "appreciate", I appreciate the fact that
7 you're both engineers but I have to ask you a
8 financial analyst question because you're the
9 only guys I got.

10 So the question is this, did the
11 Public Staff in reviewing the project application
12 consider whether it would be less costly to Duke
13 Progress' ratepayers if Duke Energy Progress were
14 to fund, up-front the cost of this project to put
15 it into rate base instead of relying on Friesian
16 to finance it and then repaying Friesian at the
17 FERC interest rate?

18 A (Lawrence) I believe that was an idea that we
19 considered, but we did not --

20 Q Didn't run the numbers?

21 A Correct.

22 A (Metz) Correct.

23 Q Did not run the numbers on that?

24 A That's correct.

1 Q Thank you. Yesterday, were you both present
2 yesterday when Mr. Bednar testified?

3 A (Lawrence) Yes, sir.

4 A (Metz) Yes.

5 Q Great. And you heard, I think, the questioning
6 about the escalation in the cost estimates for
7 the project?

8 A Yes, sir.

9 Q Right. So as I recall the joint testimony from
10 the two of you, if I recall that testimony
11 correctly without going to look for a specific
12 page, it was to the effect that your
13 understanding of the primary driver of the cost
14 escalation was the need to manage construction in
15 such a way as to deliver the project by
16 December 2023. Have I summarized what you said
17 correctly?

18 A That was correct. Yes, Commissioner Clodfelter.

19 Q And what I want to know is what was the source of
20 your understanding? What was the source of that
21 understanding?

22 A So through different settings we have multiple
23 communications with Duke Energy Progress, whether
24 it would be through interconnection or different

1 briefs, having just an open dialogue, and some
2 components of that was discussion about Q380. It
3 was just sort of a general conversation and it
4 was hey we've got Q380 and it's \$100 million
5 upgrade. Me personally, I was like what size are
6 we talking about here, 70, 75 megawatts, I'm
7 going off memory. And we just sort of took a
8 step back because that was the first time that
9 I've heard of that large of a utility scale solar
10 project to be triggering that much of an upgrade.
11 I can't recall the exact dates, a few months go
12 by and Q380 the cost went up a little bit. A
13 different conversation, Q380 the cost went up a
14 little bit. And it was my understanding through
15 the conversations being presented to me by Duke,
16 it wasn't formal, that one of the cost
17 considerations that drove an element of the
18 overall cost was the need to complete it by a
19 certain date and the amount of labor resources
20 that Duke had to apply to it in order to meet
21 that date. That was my general understanding of
22 conversations with Duke Energy Progress.

23 Q Were all of your conversations with the same
24 person?

1 A Primarily Gary Freeman, yes.

2 Q Primarily Gary Freeman?

3 A Yes, sir.

4 Q Okay.

5 A (Lawrence) I'm sorry.

6 Q No, go ahead.

7 A And I would like to add that we do understand
8 that some of the cost increase is still a
9 substantial amount when you're looking at the
10 total costs were due to confinements of those
11 increases because of when you first start out
12 it's a very high level amount, a very high level
13 estimate. And then as time goes on you refine
14 the cost estimates more and more, and get boots
15 on the ground in the areas and actually look at
16 things and the further refined the costs got the
17 higher they got.

18 A (Metz) So just to clarify, I'm not alleging that
19 the cost went from \$100 million to \$223 million
20 just because they need to meet the in-service
21 date, it was just a component as we got
22 fine-tuned estimates.

23 A (Lawrence) There are many factors.

24 Q Thank you. That's very helpful. But let me just

1 stay with that for one more point because I just
2 want to be sure we cover it completely here.

3 In those discussions primarily
4 with Mr. Freeman, was there any discussion that
5 some of the increases could be avoided if the
6 project were delayed, delivered on a more
7 extended schedule? Did that -- was that
8 something that Mr. Freeman was saying well we
9 could avoided this much if we pushed it out
10 another year?

11 A No, we did not go to that --

12 Q It didn't get that granular? The discussion
13 didn't get that granular?

14 A No, sir. It was a little more high level.

15 COMMISSIONER CLODFELTER: That's very
16 helpful. Thank you. That's all.

17 CHAIR MITCHELL: Commissioner Duffley.

18 EXAMINATION BY COMMISSIONER DUFFLEY:

19 Q Good afternoon. So does NCEMC gain other
20 benefits other than the PPA benefits from the
21 construction of these network upgrades? I mean,
22 are you aware of any projects that NCEMC may
23 have?

24 A (Metz) I'm not immediately aware of what other

1 project NCEMC may or not have. But NCEMC is in
2 the business of also buying and selling energy
3 out of their service territory.

4 Q And I just want to make sure that I heard you
5 correctly yesterday that one of the Public
6 Staff's concerns is that DEP ratepayers are going
7 to be experiencing a rate increase for a PPA that
8 benefits NCEMC. Am I correct in that assumption?

9 A Yes, ma'am.

10 Q And if we granted the CPCN is there a process at
11 FERC where Public Staff could petition FERC
12 regarding this allocation under the federal OAT?

13 A That is unclear at this time. It is something
14 that we are looking into.

15 Q So you are looking into that?

16 A We are aware of it and we're trying to have that
17 communication to say how -- what would be the
18 next step if this was to move forward. From a
19 historic sense it would rely on the merchant
20 plant to work with Duke Energy, in this
21 particular case it would be Duke Energy Progress,
22 to ensure that that cost is correct because the
23 merchant plant has the audit rights at the end of
24 the overall project. And then once Duke Energy

1 Progress sought rate recovery then we would audit
2 Duke Energy Progress.

3 Q Okay. But the point I'm trying to make is under
4 the federal OAT is there a process where you
5 could reallocate the cost based upon the
6 cost-causer or the benefits obtained?

7 A I am not immediately aware of that.

8 Q And let's hypothetically assume that this project
9 is an SP under the old SP and a cluster study or
10 grouping study process was already being
11 implemented in North Carolina. In your opinion
12 do you think the projects, all of the projects
13 that would depend on this upgrade could be
14 economically viable if there was cost allocation
15 amongst the projects?

16 A The hard part, at least in my opinion, of that
17 hypothetical is let us say it's 1500 megawatts.
18 If we can queue it together on multiple projects
19 70 megawatt, 20 megawatt, 30 megawatt, 5
20 megawatt, the aggregate to get to 1500. That's
21 going to be a lot of people sitting at the table.
22 And we do the study, we identify it, and we roll
23 out a cost. The cost gets passed down by
24 (coughs), excuse me, whatever allocation method

1 was approved. So let's just assume that it's by
2 megawatt nameplate capacity. That, say a
3 5 megawatt facility at the very end says oh
4 that's too much cost passed on to me, they
5 withdraw. Repeat. That new cost gets
6 distributed across 1495. You can see where this
7 iteration is going. I don't know where the end
8 in sight will occur and how much time we would
9 get stuck in that iterative loop churning until
10 we can get a number that all parties could agree
11 to.

12 Another challenging component --
13 well, I believe you stated under the SP so that's
14 a state queue. Because if we started introducing
15 federal queue in the state queue that's another
16 issue that we have been talking about. We don't
17 know a clear way how to implement that cautionary
18 mechanism at this time. So apologies.

19 A (Lawrence) And regardless, this is a substantial
20 cost. There would be many moving parts in a
21 grouping study. It's a complicated issue either
22 way. So certainly the more projects that the
23 cost is spread out over the more viable it
24 becomes for each individual project. But each

1 developer has their own risks built in that --
2 and their own risk tolerance that it may not meet
3 that, their criteria even still.

4 A (Metz) But, then we have to balance that against
5 what does the system need at that particular
6 point in the overall region.

7 Q Right. I understand that system efficiency is
8 another concern of yours as well. And then
9 Ms. Kemerait asked about this meeting between
10 Friesian and the Public Staff and said
11 November 22nd. Is that of 2019?

12 A Yes.

13 A (Lawrence) Yes.

14 Q And so what is the status of the queue reform,
15 the cluster studies, and the grouping studies?

16 A (Metz) It's my understanding that we're still
17 going through the stakeholder process. I don't
18 mean that lighthearted. But we are still trying
19 to get the input from different perspectives in
20 order to initiate a more thoughtful plan with
21 potentially less road blocks.

22 Q So but when would a filing be made with the
23 Commission?

24 A I do not know.

1 COMMISSIONER DUFFLEY: And I'd like a
2 late-filed exhibit regarding -- if my memory serves me
3 correctly under federal law, I'm not sure whether DEP
4 could build instead of the interconnection customer.
5 So if someone or both parties could research that
6 issue and provide their understanding of whether DEP
7 could actually build those facilities instead of
8 Friesian?

9 MR. DODGE: Commissioner Duffley, if I may
10 just for clarification, is this related to the comment
11 that Mr. Bednar made yesterday that they explored that
12 option with the utility?

13 COMMISSIONER DUFFLEY: It's related to
14 Commissioner Clodfelter's question regarding the
15 \$25 million in federal interest.

16 MR. DODGE: Okay. Thank you.

17 COMMISSIONER DUFFLEY: Yes, built-in pay.

18 BY COMMISSIONER DUFFLEY:

19 Q And -- I think I have one last question. Let's
20 assume that the network upgrades for this
21 facility costs \$100. Would the Public Staff be
22 opposing this CPCN?

23 A (Metz) If the project was \$100 and then there
24 would not be a rate impact then here on the

1 stand, just trying to think it through and not
2 having time to talk with other colleagues and
3 work through all of the potential scenarios, that
4 I believe there still would be a challenge of how
5 the system impacts, whether or not this is good
6 long-term planning, would this be the inflection
7 point where we've got to start reducing our
8 nuclear units that are located in proximity,
9 would we have to start operating Weatherspoon CT
10 which has high costs and is near the end of its
11 retirement life and would not be in good economic
12 dispatch. There is a break-even point. I'm just
13 not at a position right now to say what that
14 number would be.

15 Q Okay. Thank you. And I also think I heard one
16 of you state yesterday that one of your concerns
17 is the replication of this type of request where
18 DEC ratepayers and DEP ratepayers might be having
19 to foot the bill for future projects if future
20 developers decided to enter the federal queue and
21 found a customer. Has Public Staff discussed
22 with Duke changing the language of the federal
23 OAT to be similar to cost allocations similar to
24 MISO, the RTOs, and PJM?

1 A That direct expression with the OAT, no. Or
2 those direct comments with the OAT, no. I
3 believe working through the cluster study
4 process, I believe Duke is evaluating what
5 changes they may have to make to the OAT but I
6 believe that's independent of your direct
7 concerns?

8 A (Lawrence) And this project and mainly this
9 concern has just become a reality. And so this
10 is the first project we've had to work on that
11 that has been even present at this level. So I
12 believe that is still in its infancy in that
13 regard.

14 COMMISSIONER DUFFLEY: Thank you.

15 CHAIR MITCHELL: Commissioner Brown-Bland.

16 EXAMINATION BY COMMISSIONER BROWN-BLAND:

17 Q Either of you can answer my questions I think.
18 Frequently when a merchant plant makes
19 application for a CPCN it's not unusual that they
20 would be selling the generation elsewhere in the
21 region outside of the state. Is that your
22 understanding?

23 A (Metz) Yes.

24 Q And in those situations does the Public Staff

1 routinely scrutinize the end customers' need?

2 A So turning to my memory of NTE Kings Mountain and
3 explicitly NTE Reidsville as the two merchant
4 power plants, I believe NTE Kings Mountain as --
5 talking to others members as part of the task
6 force, that part of the need establishment was
7 looking at SCEG's need, DEC's need, and DEP's
8 need. Looking at a generation profile if you
9 would of a combined cycle plant, for lack of a
10 better word, 24/7 near full output and look at
11 the potential of municipalities or co-ops, or
12 wholesale off-taker's towns. We took that under
13 consideration. Then looking at NTE Reidsville
14 was the need of DEC and DEP. And around that
15 time there was a stronger focus needed to be on
16 winter planning so we took the considerations of
17 if the system is being built out under winter
18 planning. And we have currently within the IRP
19 let's say Town A located in North Carolina is
20 pulling 200 megawatts and NTE was able to make an
21 arrangement to sell 200 megawatts there, that
22 would be 200 more megawatts that gets freed back
23 up to the rest of retail and wholesale. Because
24 again, looking at the IRP wholesales are

1 ultimately reduced out because that almost can be
2 viewed as the demand component so that goes into
3 our consideration of looking at need.

4 So, yes, the merchant plant could
5 sell 200 megawatts. That's 200 megawatts that
6 goes back into the stack that gets redistributed
7 amongst everyone else. So it actually pushes up
8 the reserve margin and will delay construction of
9 future capital projects. That's -- yes.

10 Q And so in those examples the merchant plant
11 generation affected DEP or DEC's need for a
12 source or a generation?

13 A That is correct.

14 Q What about -- have there been instances where the
15 sales are primarily if not wholly outside of the
16 system so that that power is going to someone say
17 from Virginia or Tennessee or --

18 A (Lawrence) I believe in many of the solar CPCN,
19 yeah, CPCN and EMP hearings in the past we've had
20 several over the past three years, those have
21 been located in Dominion's service territory and
22 they are a member of PJM. And so those --
23 they've generally cited the need for in the area
24 of PJM's needs and Dominion's needs and they

1 do -- they are able to sell to an individual
2 customer if they are large enough under the
3 Virginia laws, and so that has happened in cases
4 there. But again, in those cases they have cited
5 and shown needs in the PJM region still.

6 A (Metz) And that's an element when we have to --
7 part of the evaluation is looking at whether --
8 being an RTO and not an RTO when the safeguards
9 are put into place in the cost allocation
10 mechanisms.

11 Q And this may be in the record but what do we know
12 about to the extent that NCEMC has agreed to take
13 this generation, the impact on the Duke, either
14 of the Duke Companies? Is it replacing or is it
15 in addition to the power that they presently take
16 from the Duke Companies? Do we know?

17 A I do not know. I don't know if it's a direct
18 replacement or not.

19 A (Lawrence) I'm not sure. We aren't aware of
20 NCEMC's, their general purchase power obligations
21 and who they mainly receive their power from.

22 Q And when you're looking at the need component of
23 the CPCN prong, the test to issue the CPCN, have
24 you in the past used a standard like a high level

1 standard like the lights are going won't be able
2 to stay on without this and, therefore, there's
3 no need because it's not impacting whether the
4 lights are going to go out?

5 A (Metz) So in terms of a merchant plant we do take
6 this into consideration. I think more of the
7 reality is of where we evaluate that in the
8 CECPCN process for transmission upgrades is
9 looking at how loaded the potential, the circuits
10 are, the facts and circumstances behind that
11 case. I remember working with Public Staff
12 Witness Tommy Williamson on the recent CECPCN --
13 I'm totally messing it up -- on the transmission
14 upgrades that DEP recently requested around the
15 Wilmington area. And we met extensively and had
16 multiple conversations with DEP and challenged
17 them to whether or not the loading restraints
18 could be alleviated (sic) through non-wire
19 alternatives or through other mechanisms. And it
20 was through our evaluation that no other
21 alternative could be reached. And the circuits
22 in that general area were already sort of in that
23 engineering safeguard margin during peak critical
24 times and had been operating there for a period

1 of over a few years. Because again, remember
2 2014, 2015, 2018 we had extreme weather events.

3 Q So does the Public Staff think that it's an
4 appropriate consideration in looking at the
5 customer who wants to buy from this proposed
6 project whether they have non-wire alternatives
7 available or some other alternative, would you
8 look at the customer's alternatives?

9 A I believe that would be a valued input in the --
10 in either part of the review or the burden of
11 proof is on the Applicant to demonstrate that
12 need. But whatever component of need I believe
13 that would be a valid input.

14 Q All right. Has the Public Staff -- does the
15 Public Staff suggest that a merchant plant should
16 supply or look at supplying a customer that might
17 have a greater need than another customer?

18 A (Lawrence) I don't believe that we would want
19 that level of scrutiny. In the Commission Rule
20 it says just a showing of need in the region,
21 state and/or region. That -- so I think that
22 that was left vague for a reason.

23 Q Isn't it ordinarily the case though that if there
24 is a known buyer and a known place for that

1 generation to go that that has been viewed by the
2 Public Staff as well as the Commission as
3 satisfying a need prong?

4 A (Metz) Yes. Under the facts and circumstances of
5 the case, yes.

6 Q And in this docket has any -- has there been any
7 public objection to the project itself or the
8 siting?

9 A (Lawrence) No, not in this docket. I don't
10 believe in the SP docket that it was originally
11 filed in either.

12 A (Metz) Subject to check, we don't believe there
13 was anything filed.

14 Q And so the only objection we have or request to
15 deny comes from the Public Staff. Is that square
16 with your knowledge?

17 A (Lawrence) Yes.

18 A (Metz) Yes, it is.

19 Q And as opposed to other merchant plant CPCN
20 dockets where the Public Staff didn't take issue
21 and found there to be a need, even when the sales
22 were more than likely going elsewhere or off the
23 Duke system, and found there to be a benefit or
24 that the project was in the public convenience,

1 is it -- as opposed to those, is it the network
2 upgrades that causes you to find either of the
3 prong, two prongs not met?

4 A In this particular case, yes, and the other
5 merchant plants where I've testified on and we
6 have other members who have been part of this
7 task force for the ones that I have not, the
8 normalized cost is typically taken into
9 consideration as well as approving the CPCN,
10 recommending approval or disapproval of the CPCN.

11 Q And you mentioned system impacts a minute ago, is
12 there anything about the Friesian project that
13 you view as a negative system impact?

14 A The element that -- in discussion about the
15 potential negative impact would be where Duke
16 Energy Progress has demonstrated to the Public
17 Staff multiple times of looking at what they call
18 the LROL I believe.

19 Q Loss of load?

20 A Least reliable operating limit. And I believe an
21 avoided cost docket with Sammy Holeman (spelling
22 uncertain) filed more -- we had a more detailed
23 conversation. That one had graphs on -- but if I
24 can illustrate with my hands. I like talking

1 with my hands. If this is our baseload and
2 that's typically nuclear. North Carolina, it's
3 current system and continue to plan to be it's
4 going to be operating at "X" amount of baseload.
5 Let's just say it's 40 percent. All right.
6 Well, for NERC planning contingencies I've got to
7 have the potential of loss of a unit so I've got
8 to have a buffer sitting on top of that because
9 if a nuclear plant trips I've got to be able to
10 meet that load within the next same time period.
11 All right. So this is where I'll draw a
12 horizontal line across here. Well, load is not
13 flat. We have our ups and downs. When load is
14 high and coincident with the solar generation
15 profile, company plant -- or utility-owned
16 plants, other plants that are utilizing the
17 system just have to dip. Well that dip is the
18 ramp, what we call the ramp restraints. Well,
19 the spinning reserves on the system just can't
20 flip the switch. They've got to take awhile to
21 wind up. They've got to take awhile to wind
22 down. And there's an embedded frequency in a
23 voltage component within those ramp restraints.
24 Now that's in an ideal world when we look at the

1 summer peak and coincident with load. Well what
2 about the 70, roughly 70 percent rest of the
3 year. Well, the winter, winter peak will -- we
4 have our peaks on the system here but we have
5 generation here. And so as solar comes on we
6 don't have load to match it and emphasizing on
7 DEP because they have the largest -- they have
8 the smallest load between DEP and DEC by
9 approximately 4000 megawatts peak. And then when
10 we get in the shoulder season we -- depending on
11 where you come into the shoulder season we get a
12 little bit of the summer peak and we get a little
13 bit of the winter peaks but we reduce the overall
14 load. So when we have load and we have excess
15 generation we start running into ramp restraints.
16 And you're going to have an inflection point of
17 when you're going to start dipping into your
18 baseload plants - combined cycle, nuclear - when
19 you start dipping those down into your baseload
20 plants you've got to take those facts into
21 consideration. So looking, if I was to cycle
22 nuclear well nuclear is I put the fuel rod in -
23 simplified - I put the fuel rod in, I use up all
24 the energy in that fuel rod. At the end of two

1 years I take the fuel rod out and put another one
2 in. It's going to run two years. I run it half
3 the time. I run it three-quarters of the time.
4 You're going to refill up the tank. So if I
5 don't get the energy out of it you're basically
6 wasting cost.

7 Certain components, certain coal
8 plants they have minimum run times. They don't
9 like to be cycled. Certain nuclear plants don't
10 like to be cycled. Well, if I cycle it, when I
11 say cycle it, I've got to reduce 25 percent
12 power. Well, that's a coordinated time period.
13 Then I've got to sit there for "X" amount of time
14 because I just can't flip the switch and ramp
15 back up. The utility has to take that into
16 consideration and then they've got to start
17 running out of economic -- potentially start
18 running out of economic dispatch because they
19 have to meet the next peak coming up to keep the
20 lights on.

21 I'm sorry about the long-winded
22 answer but when we start talking about
23 reliability concerns and when they're coming onto
24 the overall system, when we start having --

1 that's a component word, diversity starts coming
2 into play because if I have all one type of
3 generation resource well that magnifies the
4 issue. If I have a diversity, say wind and
5 solar, wind has a different generation profile
6 and it helps unburden some of those restraints.

7 Q Beyond the fact that Friesian would represent
8 some additional solar generation, some additional
9 generation, beyond that is there anything unique
10 about the answer you just gave that's specific
11 only to Friesian? In other words, doesn't that
12 apply to existing solar or existing renewables or
13 other generation?

14 A That is correct. But as we continue to stack on
15 that pile we're getting further and further down
16 into needing to cycle baseload.

17 A (Lawrence) Right. And when you locate all of
18 these resources in one area it exacerbates issues
19 that are present with solar energy. For example,
20 if a fast moving storm comes over in the middle
21 of a summer day that solar energy generation can
22 plummet quickly. And in those situations it can
23 pose serious issues with operation of the grid if
24 you have those resources spread out. More so,

1 you're going to have less of an impact by, in
2 that case, that one cloud, that one storm
3 wouldn't have as big of an impact on the solar
4 generation as a whole.

5 Q If we weren't looking at the cost of the network
6 upgrades in this docket, would the Public Staff
7 for those system impact reasons object to any
8 additional solar in this general area of the
9 southeast?

10 A (Metz) We would need to have more stringent or
11 more focused conversations with Duke Energy
12 Progress system operators. Those detailed
13 conversations did not take place because in
14 waiving the particular application the system
15 costs were just too great to continue deeper,
16 deeper discussions and getting into
17 more technical -- getting down more in the weeds.

18 Q And up through today is the Public Staff's
19 objection based on a system impact, adverse
20 system impact with regard to Friesian?

21 A We did not have those detailed discussions with
22 DEP system operators.

23 Q So that's not part of your reasoning so far as to
24 why this project doesn't meet the need or the

1 public convenience problems?

2 A (Lawrence) I believe that does play a part but
3 they're -- we have to -- we look at this in a
4 much larger picture there. A lot of pieces here
5 with this Friesian project and the way they all
6 fit together just doesn't, in our opinion, does
7 not fit the public convenience.

8 A (Metz) Given the overall and the BA, Duke Energy
9 Progress BA with having how much solar is the
10 right amount of solar. Duke Energy Progress has
11 relayed concerns onto us of throughout the cusp
12 or the tipping point a lot of those are feeder
13 specific. We did not get into the feeder
14 identification. But Duke Energy Progress is also
15 underway of working with NREL, again taking time
16 to see how much renewables we can interconnect
17 then to the system.

18 Q If you isolated Friesian is this project not
19 advisable because of some system impact that
20 you've identified?

21 A Duke Energy Progress system operators are the
22 best to answer that question. The Public Staff
23 has not.

24 Q All right. Now, it's been brought out on cross

1 of yesterday's panel, Friesian's panel, and now
2 today on your cross that Friesian and the Public
3 Staff have had some discussions about -- I guess
4 I got -- picked up two different understandings
5 between the two panels. But has it been the case
6 that there's been some discussions about how
7 somehow Friesian might agree to pay for a lesson
8 that's reimbursement from the utility or
9 otherwise have cost sharing with other projects?

10 A (Lawrence) Yes. There have been the what I
11 understand to be the start of some conversation
12 with cost sharing. There was the idea proposed
13 by Friesian. And I believe at the time it seemed
14 like to me that they were presenting the idea to
15 us to gauge a reaction. And so I'm not sure
16 personally if those -- if that was the full
17 conversation that we were going to have or if
18 there would be continued discussions on that.

19 Q Well, if you know the answer to this, and without
20 giving up any kind of negotiation leverage, would
21 it be fair to say that there is at least a
22 thought that if the upgrade costs were less in
23 terms of what the ratepayers would bear that the
24 public convenience questions might go away?

1 A (Metz) I believe they could be alleviated. I
2 would have to review the fact -- review
3 everything in its whole to say completely go
4 away, but that would start alleviating some of
5 our concerns.

6 Q I know there could be a point is what you're
7 saying?

8 A Yes.

9 Q Do you have any ideas or -- that you could share
10 or that you're comfortable sharing because I
11 don't want you to go beyond what you're
12 comfortable to say today. But by way of advice
13 to the Commission, just in terms of looking at
14 the public convenience question, do you have in
15 mind inputs or factors in how to draw that line
16 where we might determine that line might be?

17 A So that was one element sort of utilizing those
18 LCOT calculations that we established from -- or
19 were able to get from other studies going across
20 the nation. We believe that was a guideline to
21 represent of where have other areas had costs or
22 where their costs were coming in at.

23 Now, I do want to point out that
24 the Applicant has pointed to, weaknesses aren't

1 the right word, but this -- the cost demonstrated
2 in the LCOT tables, again, was this made as a
3 guideline, was basically is those other areas are
4 in the same position that North Carolina is. New
5 renewable generation has been able to utilize the
6 existing transmission system. So that cost is
7 backwards looking. That's a fair criticism -
8 criticism is the word I was looking for - of the
9 LCOT calculations.

10 Well, there's parts of North
11 Carolina that could be still backwards looking.
12 But as in Friesian there is a forward-looking
13 element. So what is the next incremental amount?
14 Is it \$80 or is it \$160 or is it \$3000? We're
15 still interpreting that data set. So that's the
16 only reason we put the LCOT table in there was a
17 guideline of how are -- that was the first study
18 that I found it a comprehensive analysis. Even
19 the author identified his own criticisms to say
20 hey this is backwards looking. This is the
21 system how it was up to this date and time. This
22 is not going to be looking forward.

23 As I believe Mr. Askey had stated
24 yesterday and through the PJM process, people

1 fall out of queue studies. One component of
2 people falling out is because we've utilized the
3 transmission system so now the incremental costs
4 to go to the next level is getting too great.

5 A (Lawrence) And I don't believe that in a more
6 general sense on the public convenience, or on
7 the G.S. 62-110.1 or R8-63. Like I said earlier,
8 I believe parts of that were left vague
9 intentionally because there is no one size fits
10 all approach. What works in one situation very
11 well may not work in another. And every
12 situation is unique. And it can be a difficult
13 process. But again I think that is intentional.

14 Q And then yesterday at one point it was brought
15 out that there's always a risk that Friesian
16 doesn't develop to the point where it comes
17 online. So if the CPCN were to issue in this
18 docket, and the network upgrades were made that
19 costs therefore were incurred, but the Friesian
20 project for some reason failed, wouldn't the
21 upgrades have a benefit to the ratepayers at that
22 point, to the North Carolina ratepayers?

23 A (Metz) It would be -- it's a highly dependent or
24 a loaded question. What part of the upgrade was

1 completed? If I have a simplified 50 miles of
2 the radio line and I need the power flow to flow
3 the entire 50 miles to get the upgrade, and I got
4 halfway through my process and only got to
5 25 miles. Well if my issue was the power flow
6 then there could be no value. In other words, I
7 have a sunk cost but I can't utilize it because
8 the power flow I needed goes all the way to the
9 other end. This transmission upgrade requires
10 multiple tower upgrades, multiple reconductoring.
11 What part of the process did they get? How far
12 down the road? Did we order a bunch of parts,
13 sunk costs, and now they don't get installed?
14 Did we get a bunch of wire hung? Did we only get
15 three -- three wires -- the three parallel
16 feeders on one set and we only had two on the
17 other? It's a very complicated scenario to go
18 down.

19 A (Lawrence) And I don't believe that if the
20 upgrades were 100 percent installed Friesian paid
21 100 percent of them and then did not get built.
22 I'm not sure that we are entirely clear on the
23 refund status. I don't know if that -- that
24 Friesian is not refunded at all for those at that

1 point or what requirements must be met before
2 those refunds would start.

3 A (Metz) We would need to review the OAT more, the
4 contracts, or terms and conditions of the money
5 flow back and when it would be on the utility.
6 And there's other elements that have to be
7 evaluated.

8 Q If there were complete or partial completion of
9 these upgrades, and the Friesian plant was not --
10 didn't come online, have you thought about how
11 Duke could use the upgrades at any stage along
12 the way to the ratepayers' benefit.

13 A I have not. That's heavily dependent on what
14 sections got completed in what areas.

15 Q Would you imagine it would be more than likely
16 than not that Duke would somehow take advantage
17 of whatever had been done?

18 A It would be unknown. If I need power flow on
19 this part of the -- if I need the transmission
20 upgrades only to allow more generation, but I
21 would need all of those nodes completed in order
22 for the power flow to occur. It would be too
23 much uncertainty of would a partial resolution
24 could or could not benefit or what systemic

1 changes may occur.

2 Another element of this is four
3 years from now. So let's say we get to December
4 2023. I believe that was the date that was
5 discussed, the potential in-service date. Let's
6 say whatever project it is, it doesn't have to be
7 Friesian, just another merchant plant backs out.
8 What will be the system four years from now? So
9 I know there's been heavy discussion of Q399,
10 Q398. What happens if we have a higher commodity
11 of natural gas? I believe I talked about this
12 briefly yesterday. What happens if we have a
13 carbon tax? You know what, maybe combined cycles
14 in four years are not the way to go. I don't
15 have the crystal ball to get you that answer.
16 But how can DEP utilize the system, I can't tell
17 you. Four years from now there might be other
18 better alternatives. There might be more
19 different state legislation to point us in a
20 different direction. And maybe we shouldn't have
21 invested the money in that part of the grid.

22 Q And from what you know about the current system
23 today and just the passage of time and the life
24 of what we have there, if you were out to say

1 2027, could you already see that some upgrade
2 would be needed by Duke separate and apart from
3 Friesian?

4 A We had thought about that and I think that's one
5 element that was key in our testimony is we
6 reference that one combined cycle in the DEP's
7 IRP that kept moving. I don't have the exact
8 dates and would have to look through the
9 testimony to find it but it's shifted significant
10 years.

11 The assumption is Q398 would be
12 the first combined cycle if Atlantic Coast
13 Pipeline goes through and all the other ifs, and
14 which would not be heavily utilizing the Friesian
15 upgrades because it has its own upgrades.

16 And then if we're saying Q399,
17 well, if Q399 has an in-service date of say 2027,
18 but if I looked at the one gas plant that's
19 already been pushed out five years, one could
20 opionate that 2027 is going to shift another
21 five years out because that is the presumed
22 second one in line. Maybe when Duke completes
23 their study in a year and a half of how much
24 renewables we can have on our system, maybe we

1 won't need combined cycles. Maybe we'll need
2 combustion turbines located in critical
3 components of the system to help with reliability
4 issues. That's trying to drive the point of
5 looking at a more holistic planning. And we're
6 at this unique spot on the electrical system,
7 both good and bad, of trying to evaluate all of
8 these things together.

9 Q Thank you.

10 CHAIR MITCHELL: Commissioner Hughes.

11 EXAMINATION BY COMMISSIONER HUGHES:

12 Q Yeah, it seems like we are in a unique position
13 and there's lots of projecting and crystal
14 balling. I hate to do it, but another
15 hypothetical, and I realize you're not the Duke,
16 the Duke transmission operators, but if in a
17 completely artificial setting we or Duke decided
18 that they were completely slamming the door after
19 Friesian, that this was it, and it was just
20 coming on and connecting and then we're done.
21 Completely not going to happen. But in just your
22 engineering opinion could you make these upgrades
23 in a much lower cost way? Because there's so
24 much been -- there's been so much discussion

1 about this is going to allow for a lot more
2 capacity coming on. But if you just knew
3 absolutely that there's going to be no capacity
4 and Friesian had the benefit -- you know, was
5 just coming in and knocking on the door, and it's
6 probably for Mr. Askey, a question for him but,
7 the way he was talking, but do you think you
8 could do this kind of upgrade?

9 A (Lawrence) So let me make sure I'm understanding
10 your question right first. So if Friesian goes
11 through -- or 70 megawatts more of power is put
12 onto the electrical grid at that point and those
13 upgrades are made and that is the last project
14 put on there.

15 Q Yeah, I mean, I think no one is thinking that you
16 would ever do an upgrade given what we have in
17 the queue and everything for 75 -- you know, for
18 just this plant. But if that really was the
19 reality, do you think the upgrade could be done
20 in a way that would completely meet the needs but
21 would be significantly cheaper?

22 A (Metz) That would be a better question for Duke
23 Energy transmission planning and system
24 operators. They can tell you the exact

1 specifications of why they're building out the
2 grid overall.

3 It was a fair statement by
4 Mr. Askey to state that transmission is bumpy.
5 This is a 60-year asset approximately. So when I
6 have a 60-year asset, and we're talking about
7 wires and poles, well they need the last, the
8 full 60 years, so I have to rub the crystal ball,
9 and from engineering is draw my line. Where is
10 load? There it is. Where is my margin? Where's
11 my engineering safe margin? Look at the National
12 Electric Safety Code. How do I plan it? What's
13 my wind loading? Typically those are minimums
14 when designing and building.

15 So to your statement, at least in
16 my opinion, that the \$230 million probably could
17 not be reduced if that's the number that Duke
18 Energy transmission planning has presented? Now,
19 that is an estimate, there could be ups, there
20 could be downs. The only cautionary statement I
21 would make due to the nature of this being
22 multiple years, the time frames of where this
23 is -- the time periods of where this is
24 occurring, the multiple river crossings, there

1 could be a possibility this costs -- it could go
2 down but there's also possibilities that it can
3 go up.

4 A (Lawrence) I believe in this situation the
5 upgrades that are being made aren't necessarily
6 the next -- you know, for the install, big,
7 larger wires for reconductoring. These aren't
8 the next size up wires that are made that they
9 would be installing. They would make their
10 upgrades based on what they have in their system
11 so that -- because there is a benefit to keeping
12 that stuff standardized. You don't want
13 different sized wires on all parts of your
14 system, different size towers, you know, there is
15 a standardization. So these upgrades that are
16 being made are the next step that Duke makes for
17 these. So for them there is no in between to
18 reduce those costs, and that is part of the issue
19 and just a more general issue of making the -- or
20 having the upgrades that would be needed in this
21 manner. That would be an issue that any power
22 supplier would face. That's just a standard they
23 have. So we wouldn't be able to go up to just a
24 little bit larger wire to accommodate 70 more

1 megawatts. The next step up is going to be this
2 thousands of megawatts either way.

3 Q That's the answer to my question.

4 COMMISSIONER HUGHES: Thanks.

5 CHAIR MITCHELL: Commissioner Duffley.

6 RE-EXAMINATION BY COMMISSIONER DUFFLEY:

7 Q Could you please respond to Askey's response to
8 your LCOT comparisons with RTO? Specifically, in
9 I think it's Pages 6 through 8 of his testimony,
10 he criticizes the Public Staff LCOT comparisons
11 with the RTOs, and I just wanted to receive your
12 response.

13 A (Metz) I just want to review his testimony.

14 (Reviews document)

15 So yes, the first Q and A
16 basically addresses how our calculation looks at
17 the -- how Friesian's stand-alone is triggering
18 the overall costs. And it's my interpretation of
19 his statements that the overall upgrades looked,
20 compared in the LBNL study, looked at over "X"
21 period of time of what was able to interconnect.
22 So it is, like I said it's a fair criticism, that
23 it is the possibility that Project A in a RTO may
24 have triggered these upgrades and allowed an

1 element to piggyback for lack of a better word,
2 or utilize, or share in a cost component of that.
3 Again, that was an LBNL report just as a general
4 guideline to say what are general costs for
5 renewable generations and that was the first one
6 that we were able to find across a nationwide
7 study.

8 I guess the one differentiating
9 opinion that I would have with Mr. Askey is the
10 saying that all -- part of -- the flaw in my
11 calculation is that you have to consider the
12 total allowable amount to come in to look at the
13 LCOT calculation. I disagree with that only
14 because I can't guarantee that 1600 megawatts,
15 900 megawatts, 1000 megawatts - many numbers have
16 been introduced here - is going to interconnect,
17 is going to interconnect into the system. I
18 can't guarantee that so, yes, I did have to draw
19 a bright line to say okay, if Friesian was to
20 interconnect this is the cost impact. And,
21 therefore, what is the impact to ratepayers?
22 Because I can't promise that everyone else is
23 going to come occupy the remaining of that
24 capacity.

1 A (Lawrence) And as Mr. Metz said earlier, too,
2 this is intended just to be another tool to
3 evaluate. This isn't the gospel here. We're not
4 saying that this is the way you should absolutely
5 look at it, it's just another method of looking
6 at it and giving a comparative analysis.

7 And, additionally, we don't know
8 the generation that's going to come online,
9 but -- and we also don't know the cost of that
10 generation as the -- some evidence, a couple of
11 documents were entered yesterday about regarding
12 Homer and Fair Bluff Solar, and they're
13 interdependent on these Friesian upgrades, but
14 those two facilities also have upgrades of their
15 own. So there's two right there that we already
16 know for sure that have those upgrade costs
17 associated, even if Friesian makes these
18 upgrades. So you have to look at the information
19 as a whole. And it's just, I believe, much to
20 speculative to try and predict how much
21 generation will come online and how much that
22 will cost.

23 A (Metz) So you would have to run the different
24 insensitivities and say okay this is my, probably

1 500 megawatts, maybe 1000, there's different
2 elements that you take into it and what's the
3 likelihood. You would look at it then at a
4 normalized cost and then you would look at it at
5 a levelized cost over the transmission asset. It
6 will be heavily dependent on what generation
7 units come in there.

8 As we talked about, if only solar
9 was coming into there then we would only be using
10 approximately 25 percent of the capacity of the
11 line. What are we doing with the other
12 75 percent of the line? So we have a wire
13 sitting up there that we're not utilizing
14 75 percent of the year but it costs this upgrade
15 cost. Now, if other parts or other generation
16 units were used at different generation profiles
17 to say a gas plant was the connector there and
18 used -- utilized that line, will we get to
19 distribute that cost against more megawatt hours?
20 So, therefore, the overall cost goes down.

21 What number do you put in there?
22 What's the generation? How much are you going to
23 speculate is going to come in? Then are you
24 speculating of what will that project be? Will

1 it be wind? Will it be solar? Will it be gas?
2 Will it be something else? It requires too much
3 speculation.

4 COMMISSIONER DUFFLEY: Thank you.

5 CHAIR MITCHELL: Commissioner Hughes.

6 RE-EXAMINATION BY COMMISSIONER HUGHES:

7 Q Just based on the response to my question and
8 what you had just said, would you say that any,
9 say sizeable 20, 30-megawatt facility in this
10 whole area of the state would require 200 and --
11 you know, and this general facility would require
12 the same? That there really isn't an in between
13 zero and 240 or 50?

14 A (Metz) My understanding with conversations with
15 Duke Energy Progress, any generation resource
16 connected to the transmission system in this area
17 which would, if you're connecting to the
18 transmission you're probably going to be greater
19 than 20 megawatts, it would trigger the upgrade.

20 Q Okay. So there's just nothing in between. Okay.

21 CHAIR MITCHELL: Just a few questions for
22 you all to follow up on the line of questions that
23 Commissioner Brown-Bland asked.

24 EXAMINATION BY CHAIR MITCHELL:

1 Q So we have -- I've heard testimony in this
2 proceeding that the particular region of the
3 state that we're focusing on in this case, the
4 southeastern region, is facing transmission
5 constraints. There's congestion in this area and
6 that's likely to occur in the near term in other
7 areas of the state. Do you understand that
8 correctly?

9 A (Metz) Yes.

10 Q And in this case I understand the Public Staff's
11 position to be that additional generation located
12 in this area of the state, it has the potential
13 to cause operational or system impacts. I mean,
14 you've talked, you've testified extensively about
15 the LROL and the ramping concerns that additional
16 generation raises in this area. I assume you're
17 concerned or the concerns of the Public Staff
18 that you've articulated today would be the same
19 in those other areas of the state where
20 congestion exists now or is likely to exist in
21 the near term. Is that a fair assumption?

22 A (Metz) Absolutely.

23 Q So can we expect the Public Staff to start
24 objecting to or articulating concerns related to

1 CPCNs for projects, generation projects, in those
2 areas of the state that are either also
3 congested -- congested or will be congested in
4 the near term?

5 A Yes.

6 Q What can you tell me, if anything - I recognize
7 that you all are members of the Public Staff and
8 not representatives of the utility - but what can
9 you all tell me about the utilities' plans to
10 study on a comprehensive basis transmission needs
11 that are necessary to accommodate either what's
12 in the interconnection queues now or what's going
13 to be necessary to satisfy, for example, 589
14 obligations?

15 A So one element where the utility has already
16 identified has -- the distribution study and was
17 somewhat, in Dustin's words, that the
18 distribution system was somewhat disconnected
19 from the transmission system from a studying
20 perspective. Duke self-identified that issue and
21 has made, at least in my opinion, great
22 improvements to bridge that gap. That has taken
23 time. So now instead of the two units being sort
24 of disjointed because it's two separate studying

1 scenarios, that transmission is now aware of the
2 cumulative impact of distribution DER flowing
3 into the transmission system. That's one
4 improvement and it's going to continue to evolve.

5 I believe Duke is going through
6 the queue and grabbing six-month blocks, 18-month
7 blocks, I can't remember the exact timeframe in
8 looking at the overall impacts of generators in
9 the state queue and looking at the power flow
10 analysis into the transmission and assigning
11 system costs. Again, another, in my opinion,
12 improvement to where we were.

13 Another element is we continue to
14 make improvements that the NREL study that Duke
15 has initiated and they just the Phase 1 results
16 back. If I can find this briefly -- (reviewing
17 documents). So the title of the report is Carbon
18 Free Resource Integration Study. I believe this
19 was presented to the Public Staff a month ago,
20 maybe two months ago. I've been involved in two
21 rate cases and they extract a little bit of time
22 at the moment. Just identifying -- I don't know
23 if the Commission is aware of this or not, but
24 Phase 1 scope quantify the amount of carbon free

1 electricity, estimate a curtailment wrapping and
2 system flexibility limits, evaluate its shifts,
3 and daily seasonal net load timing supply.

4 There's another phase coming because Phase 1 did
5 not consider unit commitment and economic
6 dispatch system stability cost or transmission
7 impacts. Phase 2 will address those concerns.

8 When you start mapping out the
9 overall system it takes time to get there. I
10 believe these are critical improvements as we do
11 holistic planning as we increase the amount of
12 renewable generation. I believe DEP expected in
13 2020 is going to have at nearly 20 percent
14 penetration of renewables at the summer peak,
15 whereas, DEC is much less, but we need to
16 evaluate the overall system as we continue to
17 make those improvements.

18 Q The 20 percent penetration in DEP, what is
19 that -- what does that assume? Does that assume
20 fulfillment of 589 obligations?

21 A No. That's no assumption of 589 obligations.
22 That's using the numbers out of the Integrated
23 Resource Plan looking at the estimated peak load
24 during the summer condition and the expected

1 amount of solar generation online in 2020, and
2 those numbers are pretty close to what is
3 actually being installed.

4 Q So your testimony is that the 20 percent isn't --
5 is close to what's actually installed on DEP's
6 system at this point in time?

7 A That's correct.

8 Q Okay.

9 A And again that's 20 percent at peak load --

10 Q Understood.

11 A -- not nominal load.

12 Q Understood.

13 A And this is a public document. If the Commission
14 would like the Carbon Free Resource Integration
15 Study we would be happy to provide it.

16 Q Okay. Thank you. The -- I heard you provide
17 some testimony, Mr. Metz, on the repayment
18 obligations under the LGIA and I just want to
19 make sure I'm clear on the Public Staff's
20 position there. And I'm looking at the LGIA
21 right now which was an exhibit to the prehearing
22 brief of the Public Staff and you may - I'm
23 hoping that you remember this language off the
24 top of your head - but there is a paragraph

1 that's typed in at the bottom of Appendix G to
2 the LGIA that addresses repayment, and it
3 indicates that payment shall be made either in
4 the year immediately preceding transmission
5 providers North Carolina retail rate case next
6 occurring after the achievement by the
7 interconnection customer of COD or by 12/31/2027.
8 Is it the Public Staff's interpretation of this
9 provision that repayment obligation would arise
10 even if the generator is never placed into
11 service?

12 A I would still need to go back and review the LGIA
13 and the terms and conditions.

14 Q Okay.

15 A I need to refresh myself with the LGIA to make --
16 to testify on that.

17 Q So you cannot articulate a position on that
18 question at this time?

19 A Not at this time.

20 A (Lawrence) (Shakes head no).

21 CHAIR MITCHELL: Additional questions from
22 the Commission. Commissioner Brown-Bland.

23 RE-EXAMINATION BY COMMISSIONER BROWN-BLAND:

24 Q Another question referencing the cost.

1 Yesterday, I think it was Mr. Bednar who
2 testified that some of the increase we saw over
3 time from the estimate to the initial numbers and
4 now the current numbers of \$223 million for the
5 upgrade cost were due to tightness in the labor
6 and the contractor market. If -- aside from the
7 complexities of crossing a body of water four
8 times, do you think that we are looking at
9 increased costs such that these numbers that
10 we're seeing, these higher numbers that we're
11 seeing for the first time in one of these market
12 plants might be closer to, at least in the near
13 term, what we'll see closer to the normal level
14 for a while?

15 A (Metz) Transmission cost analysis are very
16 unique. I believe a key component to this
17 particular cost analysis is that we have
18 approximately 70 miles going through the
19 southeast, North Carolina. So yeah, the topology
20 is relatively flat that we're not having
21 mountainous concerns but we have dry bed bottom,
22 sand beds, differential in the clay soil,
23 wetlands for going into the fall season. I guess
24 just to summarize there the construction costs in

1 the southeast might be slightly different than
2 they are in the northeast, even though they are
3 in the sands and are subject to issues with
4 wetness, but they can be different if we get into
5 the mountainous terrains or more rolling hill
6 topology. I can't say this will be norm.

7 Q Well, do you have any opinion or is it just -- is
8 it possible that if we look back at this point in
9 time from five years forward or seven years
10 forward that these numbers won't look like such a
11 shock to us?

12 A Commodity pricing while it's not 100 percent of
13 the total cost is a driving element. Typically,
14 in terms of how I evaluate the projects that I'm
15 used to working on, commodity prices can have an
16 inflection of 5 to 10 percent of the over project
17 cost. Labor is typically the key driver. As
18 most of us were involved in different stakeholder
19 groups and involved in different committees and
20 we have conversations with other areas, it is a
21 fair concern of the labor component or the labor
22 market. There is high demand for continued
23 transmission or distribution growth across the
24 nation. At least that is our experience in our

1 conversations that we're having, but that's also
2 coupled due to the aging workforce. It's also
3 coupled into people are not going into the trade
4 as much. That's another dynamic animal. Wages
5 are just not going up because of demand, there's
6 other facets behind it.

7 Q And so in this case it's just availability,
8 right, at least according to Mr. Bednar's
9 testimony?

10 A Correct.

11 Q Could the Public Staff file as a late-filed
12 exhibit the Phase 1 NREL study that Mr. Metz
13 referenced?

14 A Absolutely.

15 MS. CUMMINGS: And just for clarity, I
16 believe that's just a presentation.

17 A Yes, it's a presentation.

18 MS. CUMMINGS: And maybe Mr. Jirak can
19 clarify, but I think the Phase 1 is going to be
20 available in January.

21 MR. JIRAK: That's correct.

22 COMMISSIONER BROWN-BLAND: Thank you.

23 A (Metz) But we'll give you all the preliminary
24 handout that we have.

1 COMMISSIONER BROWN-BLAND: Thank you.

2 CHAIR MITCHELL: We're going to take a
3 10-minute break. We'll be back on the record at 3:50.
4 Let's go off the record, please.

5 (A recess was taken at 3:40 p.m.)

6 CHAIR MITCHELL: Let's go back on the record
7 please.

8 I have one more question for you all.

9 RE-EXAMINATION BY CHAIR MITCHELL:

10 Q Just in thinking about your testimony on the
11 state of the transmission network and the Duke
12 service territories in North Carolina, what is
13 the Public Staff's opinion on whether this, CPRE
14 goals are going to be achieved? Goals or
15 procurement targets, let me be specific.

16 A (Lawrence) I believe that was an important
17 specification that you made because the goals of
18 the CPRE largely are to procure the renewable
19 energy below avoided cost so that it's cost
20 effective for customers. And so the -- I think
21 the procurement target comes secondary to that,
22 and that is a key piece that needs to be
23 mentioned, of course, but largely at this time
24 it's difficult to say.

1 You know, in DEP this past tranche
2 we needed 80 megawatts and I don't remember
3 exactly how much we got but it was across
4 multiple facilities. And DEC, we didn't reach
5 the procurement target but many of the facilities
6 that would have been studied they dropped out
7 before that study was even done. And you know
8 the -- so it's very tough to say how that -- how
9 the network upgrades actually would affect CPRE
10 at this time.

11 A (Metz) Just to add onto that, I mean, CPRE, the
12 goal was to treat ratepayers neutral, if you
13 would, at cost, at or below the avoided cost and
14 to promote utilization of the valuable headroom
15 on transmission. In other words, let's put the
16 right generation in the right places of the
17 system with minimal system impacts. And if you
18 do cause system impacts you're going to pay for
19 them but we're going to pay for those costs in
20 evaluation to ensure that you're at or below
21 avoided cost. Time is still out to see whether
22 or not we would make those -- are going to make
23 those goals through the different tranches or
24 not.

1 CHAIR MITCHELL: Commissioner Duffley.

2 FURTHER EXAMINATION BY COMMISSIONER DUFFLEY:

3 Q So with the state interconnection queue and PURPA
4 projects there is a cost containment aspect to
5 network upgrades which is, you know, being able
6 to have avoided cost, and the interconnection
7 customer is paying for those upgrades. Under the
8 federal system with the LGIA, what are the cost
9 containment provisions within that Large
10 Generation Interconnection Agreement for network
11 upgrades?

12 A (Metz) I'm just trying to make sure I understand
13 the question. So through the FERC process and
14 entering through the LGIA, if a facility
15 triggered the network upgrades the facility would
16 have to pay those upgrades, but under the
17 designation of the merchant plant eventually the
18 cost will be refunded once placed in service back
19 to the merchant plant with the FERC interest
20 rate. I'm not fully understanding but like the
21 safeguards or the provisions that you're asking.

22 Q Right. That's what I'm asking about. Are there
23 safeguards or provisions regarding cost
24 containment under the federal system? Cost

1 containment, you know, the cost of the network
2 upgrades?

3 A I would have to go back and re-review the LGIA to
4 look at exactly under what conditions would
5 there -- the containment would occur.

6 COMMISSIONER DUFFLEY: Thank you.

7 CHAIR MITCHELL: Questions on the
8 Commission's questions?

9 MS. KEMERAIT: Yes.

10 MR. JIRAK: Just real quick. No questions
11 from DEP, Chair Mitchell, but with your discretion, at
12 your direction, DEP would certainly be glad to, I know
13 one of the issues that got a lot of focus and your
14 attention was understanding the reasons for the cost
15 increase of the estimate for the project over time,
16 and with your lead we'd certainly be glad to file some
17 sort of Commission Hearing Request to give some more
18 background on that, if it would be helpful.

19 CHAIR MITCHELL: We'll take a late-filed
20 exhibit on the issue. Thank you, Mr. Jirak.

21 Any additional questions on Commission's
22 questions?

23 MS. KEMERAIT: Yes, from the Applicant.

24 CHAIR MITCHELL: Let's -- do you want to --

1 MR. DODGE: We do you have a couple of
2 follow-ups.

3 CHAIR MITCHELL: All right. We're going to
4 start with Mr. Dodge.

5 MS. KEMERAIT: Okay.

6 EXAMINATION BY MR. DODGE:

7 Q Commissioner Duffley -- Mr. Metz, I believe this
8 discussion was with you -- asked about the cost
9 allocation changes, if the Public Staff was
10 looking at changes in the cost allocation or the
11 open access tariff and I think you responded that
12 we were looking at that. Do you recall that
13 discussion?

14 A (Metz) Yes.

15 Q And - (coughs) - excuse me. To modify the cost
16 allocation provisions that would require a change
17 to the open access tariff itself, would it not?

18 A Correct. Any modifications to the overall OAT
19 would have to go through that process.

20 Q And part of the queue reform measures that are
21 being discussed would also require some changes
22 to that cost allocation portion of the OAT as
23 well?

24 A Yes. That's my understanding as well as that's

1 what Duke has presented to us in some of the
2 meetings that we've had, that part of the
3 consideration would be having to go to FERC and
4 get that overall process approved.

5 Q And there was also a separate process, maybe, and
6 this may have -- and you also may have been
7 referring to this, that there's a process for
8 challenging the cost in the annual formula rate
9 updates at FERC. Are you familiar with that as
10 well?

11 A Yes. There's a general provision for that to
12 occur?

13 Q But to your knowledge has the Public Staff
14 participated or filed a challenge to the annual
15 updates to the formula rates?

16 A No, we have not.

17 Q Thank you. Excuse me. A second line of
18 questioning from Commissioner Brown-Bland asked
19 about whether we could prioritize wholesale
20 customers or we'd recommend prioritizing
21 wholesale customers for a merchant plant seller.
22 Do you remember that discussion?

23 A Yes.

24 Q And is it your understanding that wholesale

1 transactions are FERC jurisdictional and so we're
2 not in a position to be weighing in on the
3 prioritization of who a merchant plant sells to?

4 A Yes. We can't referee that the power would go to
5 NCEMPA or NCEMC. It is the open access
6 transmission that they have the right to connect
7 to, but as the Commission had stated that we can
8 take into considerations at the state level for
9 granting the overall CPCN, so we're not denying
10 them access to the transmission system directly.

11 Q And that is exactly my second point to that.
12 What we're here to talk about in this proceeding
13 is the information that was presented in the
14 application for a merchant plant that described a
15 specific offtake; is that correct?

16 A That is correct.

17 Q Okay. Thank you.

18 CHAIR MITCHELL: Ms. Kemerait.

19 MS. KEMERAIT: Thank you.

20 EXAMINATION BY MS. KEMERAIT:

21 Q Mr. Metz and Mr. Lawrence, I have just a couple
22 of questions and the first one is to follow up on
23 the questions from Chair Mitchell and
24 Commissioner Brown-Bland about reimbursement for

1 the network upgrades. And I'm going to make a
2 representation to you and if you don't know, if
3 you can't confirm the representation then I will
4 submit to the Commission that we're willing to
5 file a late-filed exhibit with this information.

6 But if I -- my representation to
7 you is that Article 11.4 of the LGIA between
8 Friesian and Duke provides that if the network
9 upgrades are constructed in whole or in part and
10 the Friesian facility is not placed in service
11 then Duke has no obligation to reimburse those
12 network upgrade costs to Friesian. Do you have
13 any opinion about that representation?

14 A (Metz) I don't remember that exact article or
15 position within the LGIA. I would have to
16 evaluate it in its whole.

17 MS. KEMERAIT: And if the Commission would
18 like we would be willing to make a late-filed exhibit
19 to provide that information, but it is contained in
20 Article 11.4 of the LGIA.

21 CHAIR MITCHELL: I believe we have the LGIA
22 is the record now. So thank you, Ms. Kemerait.

23 MS. KEMERAIT: Thank you.
24

1 BY MS. KEMERAIT:

2 Q And then following up on a question from
3 Commissioner Duffley about the -- she had a lot
4 of questions about the cluster study and the
5 sharing of costs among qualifying facilities
6 through a cluster study. And again, queue reform
7 in which a cluster study has been proposed has
8 not been approved by the Commission yet; is that
9 correct?

10 A (Metz) That is correct.

11 Q And since we don't yet have a cluster study
12 approach we have to proceed under the current
13 serial study process; is that correct?

14 A That is correct.

15 Q So if the Friesian CPCN is not approved then
16 under the serial process the next project in the
17 interconnection queue would be assigned to those
18 network upgrade costs. Is that the way it
19 currently works?

20 A Yes.

21 Q And then do you agree with Mr. Jirak's statement
22 on, I believe, Page 2 of the letter that he filed
23 that it would be -- if Friesian -- if the
24 Friesian CPCN were not approved that it would be

1 highly unlikely that any of the later queued QFs
2 in the queue would be able to absorb the
3 substantial interconnection costs. Do you think
4 that that's a fair statement?

5 A That would require too much speculation on my
6 part.

7 Q Okay. But you would agree that approximately
8 over \$200 million would have to be paid for
9 network upgrade costs for the next customer in
10 the transmission queue; is that right?

11 A Yes.

12 Q And we've had a lot of discussion about Duke's
13 natural gas plant that is behind Friesian in the
14 queue and is Queue Number Q399; is that correct?
15 We've talked quite a bit about that.

16 A That is the second one, the second gas plant, but
17 yes.

18 Q Right. The first one is Q398?

19 A Yes.

20 Q And Q399 is the gas plant that's interdependent
21 on Friesian's network upgrades, correct?

22 A Yes.

23 Q And I'm just going to give you a hypothetical
24 because I know that you believe or have testified

1 about speculation about whether Q399 will
2 actually be constructed. But please assume that
3 the Friesian CPCN is denied and that Duke moves
4 forward with its plans under its 2018 IRP and its
5 2019 IRP updates and submits an application for
6 the natural gas plant Q399. And in that case the
7 natural gas plant will be responsible for the
8 network upgrades for that area of the
9 southeastern portion of the state; is that
10 correct under that scenario?

11 A Under that scenario and under that hypothetical,
12 and not to be argumentive, but the other
13 component of this is looking at when Duke will
14 present the 2020 net carbon plan. I don't know
15 how the new net carbon plan is going to impact or
16 potentially adjust the Q399 project.

17 Q Okay. And if the Friesian -- if the upgrades are
18 not provided by Friesian and are instead
19 constructed by the Q399 natural gas plant, in
20 that case they would be rate based; is that
21 correct in that hypothetical that I provided?

22 A In that hypothetical, yes.

23 Q And in that hypothetical there would be no cost
24 sharing among any of the other interdependent

1 projects; is that correct?

2 A That is correct.

3 MS. KEMERAIT: Thank you.

4 MR. LEVITAS: And I have just a few
5 additional questions I think to you, Mr. Metz.

6 EXAMINATION BY MR. LEVITAS:

7 Q In response to Commissioner Duffley's question
8 about how the Public Staff might respond to what
9 actions it might explore in the event that the
10 CPCN is granted which would open the door for the
11 possibility of these costs being reimbursed in
12 rate base, have you considered the possibility of
13 coming to the Commission with a proposal or a
14 request that it create a process for recovering
15 costs from subsequent state jurisdictional
16 projects that benefit from the Friesian upgrades?

17 A (Metz) I have not. I have not thought about
18 bringing that toward -- to the Commission. My
19 thought would be is that queue reform would be a
20 building block or if not the tool to potentially
21 solve for that issue. I believe you referenced
22 the state queue in your questions, so there are
23 challenges though as we talk about the difference
24 between the federal queue and the state queue.

1 Q Well, you're not aware of any reason, are you,
2 that this Commission could not require subsequent
3 state jurisdictional projects to contribute to
4 costs that had been advanced by or reimbursed to
5 be a FERC jurisdictional project, are you?

6 A No, I'm not.

7 Q And do you recall that we, the representatives of
8 Friesian, have made a proposal to the Public
9 Staff to consider exactly that sort of approach?

10 A (Lawrence) That -- I believe that was the
11 discussion from the settlement agreement. But I
12 believe if the Commission ordering that could
13 infringe on the FERC versus state rights that --
14 largely we're discussing the oral arguments and
15 so there could be an issue with potentially
16 changing the allocation factors the FERC set
17 forth. But then in the -- Friesian did come
18 forth again with the idea of the -- some sort of
19 settlement where they did mention that, I believe
20 to gauge if we were interested in a cost-sharing
21 mechanism of a sort.

22 Q Well, thank you. Let me move on quickly.
23 Commissioner Duffley also posed the question to
24 you of how you might respond to this application

1 if the associated network upgrades were say \$100
2 million rather than in excess of \$200 million.
3 Isn't it the case that in one of the NTE merchant
4 plant projects that there were associated network
5 upgrades in excess of \$80 million.

6 A (Metz) I believe Commissioner Duffley had asked,
7 it was \$100, not \$100 million but point
8 withstanding that yes --

9 Q I misheard her, but in any case can you answer my
10 question?

11 A Yes. One of the NTE plants -- I have it in my
12 testimony. I can't remember if \$80 million is
13 the right number but, subject to check, the
14 merchant plants for NTE has associated costs,
15 yes.

16 Q And was there any evidence presented in that
17 proceeding of the sort of public benefits that
18 were addressed by the Friesian witnesses in this
19 proceeding?

20 A I would have to go back and review the case file
21 for those specific benefits.

22 Q All right. Now, turning to Commissioner
23 Brown-Bland's questions. As I understood
24 Mr. Lawrence in response to a question from

1 Commissioner Brown-Bland about potential
2 operational impacts of additional solar including
3 the Friesian project, I thought I heard you say
4 that that was a -- that is a factor in the Public
5 Staff's position on this CPCN application. Did I
6 hear you correctly?

7 A (Lawrence) We do look at the impacts to the
8 system that impact the ratepayers and the users
9 of the grid.

10 Q Well, can you show me in your testimony where you
11 discussed or identified operational
12 considerations as a factor in your position on
13 the CPCN application?

14 A I'm not sure that that is in the testimony.

15 Go ahead. (Referencing to
16 Mr. Metz)

17 A (Metz) There is -- as with any CPCN or any
18 approval or disapproval through the task force
19 there are multiple considerations taken in
20 ultimately approving or disapproving. And as we
21 put pen to paper if you would and starting to
22 draft testimony and work our way through it some
23 of our thought processes or logic applied to the
24 CPC -- to our ultimate decision doesn't always

1 make its way in the testimony.

2 Q Well, are you asking the Commission to consider
3 additional factors in its decision of whether to
4 grant this CPN -- CPCN than those identified in
5 your testimony?

6 A I mean, I believe that's why we have -- Sorry.
7 Go ahead, Mr. Lawrence.

8 A (Lawrence) We are asking them to consider our
9 testimony given here today.

10 A (Metz) And I believe, again from the engineer,
11 that's why we're having an evidentiary hearing
12 and what considerations the Commission asks is
13 what we're evaluating.

14 Q Would the addition of a battery storage resource
15 to the Friesian project significantly alleviate
16 any concerns about operational impacts?

17 A I'd have to caveat of what you mean by
18 significantly, but it is a possibility that
19 battery storage could alleviate some of the
20 general concerns, yes.

21 Q And you also in response to Commissioner
22 Brown-Bland and elsewhere in your testimony have
23 talked about the fact that the Friesian facility
24 does not make a contribution to addressing DEP

1 winter peak as a factor in your mind that the
2 project doesn't provide public benefits; is that
3 fair?

4 A Yes.

5 Q So if a battery storage device were added to the
6 Friesian project that was available to DEP to
7 address winter peaks, would that affect your
8 position on the CPCN or potentially so?

9 A (Lawrence) I believe it definitely could
10 influence our position. But at this time we've
11 seen a few CPCNs come in with batteries attached
12 but they've been a very minimal impact. So the
13 likelihood of that happening -- you know, if
14 Friesian would like to present us with a new
15 proposal we would certainly evaluate it, yes.

16 A (Metz) we would have to take that into
17 consideration. And to the extent, I mean, not
18 trying to twist your words but to say you offered
19 Duke Energy Progress the rights to the battery,
20 we would have to evaluate the potential PPA or
21 what safeguard provisions would ensure that
22 availability for DEP to use it.

23 So the short answer is yes, we
24 would take it in consideration but there is a lot

1 more to go with it in evaluating it.

2 MR. LEVITAS: Thank you. That's all I have.

3 MR. SNOWDEN: Chair Mitchell, I have a very
4 brief set of questions, if I may. Very brief.

5 CHAIR MITCHELL: All right.

6 MR. SNOWDEN: And this is just in response
7 to Commissioner Duffley's questions about how NCEMC
8 was sort of affected here.

9 CHAIR MITCHELL: Mr. Snowden, make sure
10 you're talking into your mic.

11 MR. SNOWDEN: Oh, sure. Sorry. Thank you.

12 EXAMINATION BY MR. SNOWDEN:

13 Q Are you familiar with the concept of an affected
14 system in the interconnection context?

15 A Give me a little bit more background.

16 Q Okay. Would you agree that the North Carolina
17 Interconnection Procedures define an affected
18 system as a utility other than the
19 interconnecting utility system that may be
20 affected by proposed interconnection?

21 A Yes.

22 Q Okay. And so at least under the North Carolina
23 procedures an interconnecting utility has to
24 consider the impacts of a proposed

1 interconnection on an affected system?

2 A Correct. And just to make sure if I'm
3 understanding that correctly is if you -- any
4 adjoining areas that have, power flow isn't the
5 right word, let's say I had a co-op sitting on
6 the edge of the DEP system and the co-op wanted
7 to connect a generation. There's an agreement
8 between the Duke and the co-op of how much energy
9 flow can be injected back into the Duke Energy
10 system.

11 Q That's the concept I'm referring to. And so are
12 you aware that there are several EMCs in the
13 constrained area that we refer to here?

14 A Yes.

15 Q And there are several municipal utilities in that
16 area as well?

17 A Yes.

18 Q Okay. And you're aware that some of those EMCs
19 and municipal utilities have sought to
20 interconnect solar projects in their service
21 territories?

22 A Yes.

23 Q Okay. And are you aware that as at least some of
24 those systems have conducted their

1 interconnection studies that DEP has identified
2 itself as an affected system?

3 A Yes.

4 Q And so as an affected system is it your
5 understanding that DEP maintains that a project
6 that sought to interconnect to one of those EMCs
7 or municipal utility systems could not be
8 constructed until the Friesian upgrades were
9 constructed?

10 A I think the linkage there would be the date but I
11 would need to review that provision more closely.
12 But I believe there's a strong linkage on the
13 date of request.

14 Q Okay. Well, let me ask it another way. Is it
15 your understanding that those systems, because
16 Duke is an affected or DEP is an affected system,
17 that those EMC and municipal utility systems are
18 constrained in the same way DEP is?

19 A Correct. Because ultimately what Duke Energy
20 Progress has to take into consideration would be
21 the event of a potential reverse power flow of
22 power injected back into the Duke Energy Progress
23 System because, again, not all generation is
24 coincident with peak load.

1 Q And so the construction of the Friesian upgrades
2 would alleviate that constraint on those
3 utilities as well as on DEP, presumably?

4 A Potentially, because depending on the size of the
5 muni or the co-op in a Duke Energy Progress
6 system. I know this interties more, I would call
7 a sub-transmission, or distribution, or heavy
8 distribution, however you want to caveat that.
9 So how far upstream does say the muni or the
10 co-op push the power flow further up the system,
11 it would be a case-by-case basis. I mean,
12 hypothetically, on a 15 MVA distribution circuit,
13 would it make it's way all the way up to the
14 Fayetteville-Erwin line? Maybe, maybe not. It
15 would just require another level of review.
16 There is a correlation.

17 Q Okay. Thank you.

18 CHAIR MITCHELL: We've come to the end of
19 the hearing. I will entertain motions.

20 MS. KEMERAIT: I'll make a motion to admit
21 into evidence the Applicant's Cross Exhibits 1, 2, 3
22 and 4, along with the Application, and the prefiled
23 testimony that I made a motion for yesterday.

24 CHAIR MITCHELL: Hearing no objections, your

1 motion will be allowed.

2 (WHEREUPON, Applicant's Cross
3 Exhibits 1 - 5 are admitted into
4 evidence.)

5 MR. DODGE: Chair Mitchell, I believe I
6 moved the cross examination exhibits into evidence
7 yesterday or requested that. I did not, however, move
8 our prefiled testimony into evidence. I would like to
9 make that motion today as well.

10 CHAIR MITCHELL: Okay. Hearing no
11 objection, Mr. Dodge, your motion is allowed.

12 (WHEREUPON, Public Staff prefiled
13 testimony can be found in Volume
14 3.)

15 (WHEREUPON, Confidential
16 Lawrence/Metz Exhibit 1 and
17 Lawrence/Metz Exhibits 2, 3 and 4
18 are admitted into evidence.)

19 CHAIR MITCHELL: We will take --

20 MR. DODGE: I'm sorry. One last quick
21 clarification. Yesterday, during the hearing there
22 was a brief moment where there was potential, some
23 information shared that may have been of a
24 confidential nature and with the Chair's request I'd

1 like to coordinate with the court reporter to ensure
2 that that portion is redacted from the transcript.

3 CHAIR MITCHELL: Please do so.

4 MR. DODGE: Thank you.

5 CHAIR MITCHELL: With that we will accept
6 proposed orders from you all whenever you want to file
7 them but typically we take them 30 days subsequent to
8 the notice of the transcript being available.

9 MS. KEMERAIT: And, Chair Mitchell, we've
10 had some conversations with Mr. Dodge and Ms. Cummings
11 and we are going to, I believe, correct me if I'm
12 wrong, Mr. Dodge, but we're going to have some
13 communications with the Commission's attorney to see
14 if there would be a possibility of providing 30 days
15 from the date of the hearing as opposed to 30 days
16 from the transcript. But we -- I think we're going to
17 have some further discussions.

18 MR. DODGE: Yes, Chair Mitchell, excuse me.
19 I just want to say I think what we'd like to do is
20 discuss the timing of those, potentially changing it,
21 but I think we wanted to have a discussion with the
22 Commission on scheduling. What schedule would be
23 appropriate for that?

24 CHAIR MITCHELL: Okay. Well, we will

1 certainly take --

2 MS. KEMERAIT: If that will be acceptable to
3 the Commission.

4 CHAIR MITCHELL: -- anything under
5 advisement that you all propose.

6 And with that, we will be adjourned. Thank
7 you.

8 (The proceedings were adjourned)

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

C E R T I F I C A T E

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

Kim T. Mitchell

Kim T. Mitchell
Court Reporter