1	PLACE:	Dobbs Building, Raleigh, North Carolina
2	DATE:	Tuesday, September 6, 2022
3	DOCKET NO.	EMP-119, Sub O and Sub 1
4	TIME:	1:04 p.m. to 2:04 p.m.
5	BEFORE:	Chair Charlotte A. Mitchell, Presiding
6		Commissioner Daniel G. Clodfelter
7		Commissioner Kimberly W. Duffley
8		
9		IN THE MATTER OF:
10		DOCKET NO. EMP-119, SUB O
11		Application of Macadamia Solar, LLC,
12		For a Certificate of Public Convenience
13	An	d Necessity to Construct a Merchant Plant
14		Solar Energy Facility in Washington
15		County, North Carolina
16		and
17		DOCKET NO. EMP-119, SUB 1
18		Application of Macadamia Solar, LLC
19		For a Certificate of Environmental
20	C	compatibility and Public Convenience and
21	N	lecessity to Construct Transmission Line
22		in Washington County, North Carolina
23		
24		

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 3
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PROCEEDINGS

CHAIR MITCHELL: Good afternoon. Let's go on the record, please. I'm Charlotte Mitchell, Chair of the North Carolina Utilities Commission. With me this afternoon are Commissioner Clodfelter to my left and Commissioner Duffley on the screen. I now call for hearing Docket No. EMP-119 Sub 0 & 1 which is the Application of Macadamia Solar, LLC for a Certificate of Public Convenience and Necessity to Construct a 484 Megawatts Solar Photovoltaic Generating Facility in Washington County, North Carolina, as well as a Transmission Line to connect that facility to the grid.

All right. It's the Commission's understanding that the parties today did not intend to cross-examine the witnesses of the other parties and that the witnesses are being presented today for the limited purpose of answering the questions posed by the Commission, and it's September 2nd, 2022 Order accepting supplemental testimony and providing questions to be answered at hearings.

If that is true and there are no objections from the parties, I'm not seeing objections at this point, the Commission will consolidate the proceedings in Docket Nos. EMP-119, Subs 0 & 1, EMP-110, Sub 0, and EMP-111,

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1
     Sub O, solely for the purpose of receiving testimony on the
 2
     questions set forth in the Commission's September 2nd, 2022
 3
             Therefore, the Commission now calls for hearing in
     addition to this Docket, EMP-119, Subs 0 & 1. Docket Nos.
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 5
     EMP-110, Sub 0 and EMP-111, Sub 0.
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                    With that, I'm going to call on parties to
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     make appearances for the record, beginning with the
 8
     Applicant.
                    MR. SNOWDEN: Good afternoon, Chair Mitchell,
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10
     Commissioner Clodfelter, Commissioner Duffley, Ben Snowden
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     with Fox Rothschild, for the Applicants Macadamia Solar,
12
     Sweetleaf Solar, and Sumac Solar. And I have with me today
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     my associate Jack Taggart, also with Fox Rothschild, here on
14
     behalf of the Applicant.
15
                    CHAIR MITCHELL: Good afternoon, Mr. Snowden,
     Mr. Taggart. Public Staff.
16
17
                    MR. JOSEY: Yes.
                                      Robert Josey with the
     Public Staff, on behalf of the Using and Consuming Public.
18
19
     I'm here with Nadia Luhr, and Zeke Creech.
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                    CHAIR MITCHELL: Mr. Josey, I assume that the
21
     three of you are making appearances in all dockets?
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so reflect, so you are -- okay. So we are doing things a

Okay. Well, the record will

MR. JOSEY: Yes.

CHAIR MITCHELL:

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little differently today than we typically do, but we will proceed anyway. It's the plan to hear from the witnesses today in response to the questions submitted or issued by the Commission in its September 2nd Order. A copy of the transcript addressing these questions will be placed in all three dockets, so that is the plan. So the transcript from today's proceeding will be placed in the Dockets EMP-119, EMP-110, and EMP-111.
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The Commission will issue a subsequent Order in each of their respective dockets accepting into the record the testimony, the prefiled testimony and exhibits of the party's witnesses in each those dockets. Let's go ahead and get started. Mr. Snowden, why don't you go ahead and call your witness, call your witnesses.

MR. SNOWDEN: Thank you, Chair Mitchell. And if I may, I'd like to call our witnesses as a panel.

CHAIR MITCHELL: You may.

MR. SNOWDEN: Okay. Thank you.

CHAIR MITCHELL: Assuming no objection. Okay.

Go ahead.

MR. SNOWDEN: Thank you. The Applicant calls Kara Price, Donna Robichaud, and Amanda Mack to the stand.

CHAIR MITCHELL: Good afternoon. I'm going to go ahead and swear you-all. Raise your right hands, if

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1
     you will, left hand on the bible.
 2
                            KARA PRICE;
 3
                            DONNA ROBICHAUD;
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                            AMANDA MACK:
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                            having been duly sworn,
 6
                             testified as follows:
 7
                    CHAIR MITCHELL: All right, Mr. Snowden.
                    MR. SNOWDEN: Thank you.
9
     DIRECT-EXAMINATION BY MR. SNOWDEN:
10
    Q.
          Ms. Price, I will start with you. Could you please
11
          state your full name and business address?
12
    Α.
          Yes. The name is Kara Price. Business address is
13
          Geenex Solar. Current address is 1000 North Carolina
14
          Music Factory Boulevard, Suite C3, Charlotte, North
15
          Carolina 28206. That is a change from the address that
16
          was on the original testimony.
17
          And Ms. Price, who is your employer and in what
    Q.
18
          capacity do you serve them?
19
    Α.
                My employer is Geenex Solar, LLC. At the time of
20
          the submitted testimony, I was Senior Vice President of
21
          Permitting and Development. Current title is Senior
22
          Vice President of Strategic Engagement.
23
          Thank you, Ms. Price. Ms. Mack, I'll move on to you,
    0.
24
          if it's okay. Ms. Mack, could you please state
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- 1 your full name and business address, for the record?
- 2 Α. Yes, Amanda Mack, 3600 American Boulevard West, Suite
- 3 400, Bloomington, Minnesota 55431.
- And Ms. Mack, could you please specify who your 4 Q. 5
- 6 Α. Yes, EDF Renewables, Project Manager of Development.

employer is and in what capacity you serve?

- 7 0. And Ms. Mack, just to be clear, you provided testimony
- in EMP-110 and 111, but not in 119. Is that right?
- 9 Α. That is correct.
- 10 Q. Okay. Thank you. All right. Ms. Robichaud, move on to
- 11 Ms. Robichaud, could you please state your full vou.
- 12 name and business address, for the record.
- 13 Donna Robichaud. The business address for Geenex Solar Α.
- 14 is 100 (sic) NC Music Factory Boulevard, Suite C3,
- 15 Charlotte, North Carolina 28206.
- 16 And Ms. Robichaud, who is your employer and in what 0.
- 17 capacity do you serve?
- My employer is QF Holding Corp., formerly QF Solutions, 18 Α.
- 19 QF Solutions has been under contract to provide
- 20 consulting services to Geenex Solar since 2013. I serve
- 21 as a Senior Vice president of Development Strategy for
- 22 Geenex Solar.
- 23 0. Thank you, Ms. Robichaud.
- 24 MR. SNOWDEN: Chair Mitchell, the Applicant

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1 | would like to provide some additional direct testimony from
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- 2 Ms. Robichaud relating to the issues that were included in
- 3 | the Commission's Order from Friday. And Public Staff says
- 4 | they don't object. Is that permissible?
- 5 CHAIR MITCHELL: You may proceed. And Public
- 6 | Staff, I'll allow you the opportunity to cross-examine the
- 7 witnesses.
- MR. SNOWDEN: Okay. Thank you.
- 9 BY MR. SNOWDEN:
- 10 Q. Ms. Robichaud, I would like to ask you a few additional
- questions that are related to the supplemental
- 12 testimony that the Public Staff witnesses, Lucas
- and -- Jay Lucas and Evan Lawrence, provided. That was
- filed on August 30 and accepted by the Commission on
- 15 September 2nd. Is that okay?
- 16 A. Yes.
- 17 Q. And this also relates to the -- directly to the
- questions that were raised in the Commission's Order
- from Friday. Is that your understanding?
- 20 A. Yes.
- 21 Q. Did you review the Public Staff's testimony from last
- 22 week?
- 23 A. Yes.
- 24 Q. Their testimony, Mr. Lucas and Mr. Lawrence discussed

- the costs that Macadamia Solar proposed to pay to expedite the work under the ASOA. Is that your understanding?
 - A. Yes, it is.

- 5 Q. And why did Macadamia want to expedite that work?
 - A. Macadamia wanted to bring the project in a year earlier for the benefit of Macadamia and the two other projects because of the ITC cliff was one of them that it was going -- it, at that time, had not been extended. Two, landowner agreements. We have options to extend leases, purchase options. And many of these agreements were executed in 2017, so they're over five years old now, so we've got to -- we had to continue to maintain our relationship with our landowners on our agreements, but we're running out of some of the pre-programmed extensions, and we might have to renegotiate POI option agreements, things like that, so we considered that a project risk.

The other project risk was zoning.

Again, this is a very old project where we received zoning for Sumac and Macadamia several years ago. We've been getting annual extensions. The concern is that ordinances could change and the counties could say "Well, now, I'm not going to do an automatic extension.

You'll have to re-apply." Sometimes, when they redo zoning ordinances, they'll limit sizes. They will add height restrictions. And so with not knowing what would come up, we considered that a risk.

General inflation was a risk. The EMP that we would hopefully receive will retire in three years, in 2025 before the efforts to Green Bill update is completed. And the last thing is related to marketability, which I could cover under confidentiality if you would like to proceed.

- Q. So Ms. Robichaud, is it your understanding that the Inflation Reduction Act extended the investment tax credit past 2025 so that that ITC Cliff was not -- after the extension, that ITC Cliff was not a factor in deciding text to that -- the projects?
- 16 A. It was not the main driving factor.
- Q. Okay. So even after that ITC was extended, there was still a lot of reasons to want to expedite the DEP
 Upgrade?
- 20 A. Yes, there is.

Q. And to be clear, Geenex had sought an ASOA -- I'm
sorry, Macadamia had sought an Affected System
Operating Agreement or ASOA with Duke under which it

- 1 expediting that upgrade?
- 2 A. That is correct.

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- Q. Okay. What do you understand about how Duke calculated the costs to expedite that upgrade?
 - Α. So Duke happened to coincidently have a Reliability Project that included a double-circuit line, Greenville to Aurora, Greenville to Everetts, and they priced that project out at \$19.8 million dollars. So the portion we affected was much smaller than the total project, but they would not bifurcate the construction and the engineering of two lines that happened to be on the same towers, so they said I will need to bring forward the entire Reliability Project, with the exception of the engineering. They were going to complete the engineering starting in 2023, but they would bring forward a year, the purchasing construction of the remaining Reliability upgrade. So they took the 19.8 million Reliability Project, subtract it from that, the 1.4 million for the engineering and construction or the engineering and permitting that they would have done anyways, and they came -- the leftover was 18.4 million.

They took that 18.4 million and said what is my weighted average cost of funds if I had to

borrow money to perform the project a year earlier? And so they took basically their cost of capital, using their WACC, which included debt and equity, and the percentages of that, and applied that and compounded monthly payments to come up with the 1.615 million expediting cut costs. It is solely financial. It's not over time or any third-party vendor increases.

- Q. Thank you, Ms. Robichaud. Are you aware of whether there is a standard way to calculate these sort of expediting costs under FERC jurisdictional agreements?
- A. Not the financing costs. Both our attorney that was helping us negotiate it and FERC's attorney tried to find an example to follow, and we could not find one. So it's a novel approach, a little bit simplified, but it would be the first that we know of.
- Q. Thank you, Ms. Robichaud. And it's your understanding that if Duke were to file an ASOA with FERC for approval that included these expediting costs, FERC would review how Duke calculated the expediting costs. Is that right?
- A. Yes, they would. We had two meetings with FERC prior to filing it because we wanted to seek -- we wanted to not seek reimbursement. So we went over the cost, and FERC asked for detail. Then we had a second meeting, and the

second meeting included us and Duke, and Duke went over the detail that they presented in the North Carolina docket. FERC, at that time, would not respond. They keep pretty quiet because of the Edgecombe re-hearing request and other things in the FERC docket, so you couldn't tell a read exactly when you talked.

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- 0. So Ms. Robichaud, in your view, is there a question as to whether FERC would approve of or accept Duke's calculations of the expediting costs?
- Α. Um, I -- you know, our general thought was it was really simplified and it was novel, so we did expect questions. We expected perhaps a good -- a deficiency that would modify it another way or -- you know, there are other ways to figure out expediting costs, so we did expect that they would issue a deficiency.
- And Ms. Robichaud, what is your understanding of what 0. would happen, process wise, if FERC disapproved of or had questions about Duke's calculations of costs?
- Um, it would definitely extend the deadline. Our goal Α. was to submit the ASOA by September 1st, prior to this hearing, to FERC. And what would have happened would have been 60 days later, by November 1st, they would accept, deny or issue a deficiency. If they issued a deficiency, there would be 30 additional days, by

- December 1st, where Duke would respond to that
 deficiency. And then FERC would have another 60 days to
 react to that response, so that puts us out to
 February 1st of 2023, at the earliest, assuming we
 would have filed at September 1st.
 - Q. Thank you. So is it fair to say that even if FERC accepted an ASOA that waived Macadamia's right to reimbursement, it still might not end up issuing a decision accepting an ASOA until some time next year if it had issues with the way that Duke calculated the expediting costs?
- 12 A. Yes, I would agree.

- 13 Q. Thank you. And could you please explain why Macadamia
 14 Solar withdrew its request to expedite the ASOA despite
 15 the factors that you had mentioned previously?
 - A. Yes. There were -- you know, developing a project is all about managing the risks, so there is some huge risk coming for Sweetleaf in Macadamia in the manner of putting security down for the interconnection service agreements. We have -- we should soon have an ISA tendered to us for Sweetleaf Solar. And Sweetleaf Solar, when they sign their ISA, we'll probably have to fund up to \$80 million of security.

And then two, three months later,

Macadamia's going to have to fund up to \$70 million worth of security. So trying to get financing without a CPCN is a huge risk. So if we go to a bank or go to a loan and say we don't a permit to build, their next question would be, "Well, why would I give you money to sign an ISA." So that's a huge risk. It was bigger than the risks that we had with -- we previously stated, so we chose the -- we chose to forego our expediting so we could keep our CPCN on track.

- Q. Thank you, Ms. Robichaud. I'd like to clarify one other fact too. So is it the case though that it's not -- it is now not going to be Macadamia, but Sumac Solar that will be seeking an ASOA with FERC that does not call for expediting?
- A. Correct. Sumac, all along, was designated the person that was or the Company that was going to sign the ASOA, but with the expediting cost of 1.6 million, it was too much financially for Sumac to handle, so Macadamia was going to step in, being the largest project, 484 megawatts, it could easily accommodate those costs. Well, not easily, but better than Sumac, which was an 80-megawatt project. So now when we pulled the 1.6 out of it, the ASOA, and those left to be what we believe is going to be \$150,000, it wasn't a

NORTH CAROLINA UTILITIES COMMISSION

- size that Sumac could say handle, and so Sumac went and
- took over or took back their responsibility of being
- 3 the one that signs the ASOA.
- Q. Thank you. Ms. Robichaud, did you see the Commission's
 Order on September 3rd that directed the Applicant to
 answer certain questions related to expediting costs?
- 7 A. Yes, I did.
- Q. Okay. Although this question may be mooted by Macadamia's decision not to pursue expediting, I'd like you to answer those questions as best you can. Is that all right?
- 12 A. Yes.

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- Q. Thank you. So the first question posed by the

 Commission is "Under what circumstances will the

 \$1.6 million in Affected System Costs outlined in your

 testimony increase, decrease, or otherwise change?"

 Can you answer that question?
 - A. Limited. It now will be zero so it won't change, but the financing cost was based on an estimate of the construction and procurement of the upgrade. And the engineering for that and the procurement for that has not yet been done, so I sort of suspect that after 2023 into 2024, Duke would have a better picture of what the cost of that upgrade was going to be. And they would

NORTH CAROLINA UTILITIES COMMISSION

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re-apply different -- you know, if it changed, they
could have applied a different basis besides the 18.4.

They also might have a rate case before then in their
weighted average cost of capital could change, so
there's some factors that I see could change, and
possibly input from FERC, if FERC wanted some changes
in the expediting costs.
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Q. The next question is this: How confident are the Applicants that the \$1.6 million figure is the final amount in the Affect System cost. So I think you've answered that, but if you don't mind, just answer that directly.

- A. I think it's going to be off by at least a little bit.

 Whether it's 1 percent, 20 percent, I don't know. But,

 you know, I don't see it nailing it dead-on, but I

 think it's going to be in the range.
- 17 Q. Thank you. And if you can answer this. If the Affected
 18 System cost were to change, do you have any idea of
 19 what the magnitude of that change might be?
 - A. So the Affected System cost right now is the -- that's assigned to Sumac is \$150,000, and that covers the cost of a higher rated capacity line for the Everetts to Greenville section. So, you know, I am -- if they do their final engineering and the base cost is off a

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little bit, you know, it's a differential between the
two. I thought maybe if there was some escalation, but
again, it's a difference between the smaller and the
larger conduit size, so it could change. I -- again,
they may not nail it, but I think it's definitely
within the range of what they said.
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- Q. Thank you. And this is going to go back to the ASOA that you-all were seeking to enter into. Had you proceeded with the ASOA requiring expediting the waiving reimbursement, and the amount of the expediting costs had exceeded \$1.6 million, who do you anticipate would have paid that extra money?
- 13 A. Macadamia Solar.
- 14 Q. Thank you.

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- MR. SNOWDEN: Chair Mitchell, Ms. Robichaud and Ms. Price, and Ms. Mack are now available for Commissioner questions.
- CHAIR MITCHELL: We are going to allow cross-examination.
- 20 MR. SNOWDEN: For cross-examination and 21 Commission questions.
- 22 CHAIR MITCHELL: Go ahead.
- MR. JOSEY: Just a couple.
- 24 CROSS-EXAMINATION BY MR. JOSEY:

- Q. You stated that the most recent estimate for the
 Affected System Upgrade costs was \$150,000, and it had
 previously been \$350,000 after DEP had determined that
 it was going do rebuild the line. Do you know why it
 changed from 350,000 to 150,000?
- 6 A. (Ms. Robichaud) I do not.
- 7 0. And you just stated that under the ASOA that Macadamia 8 was going to sign with DEP that provided -- that did 9 not provide for reimbursement, that Macadamia would 10 have been subject to the -- would have repaid any 11 amount of money had the estimate changed from the 12 \$1.6 million dollars. But under current FERC policy, 13 DEP ratepayers would normally be subject to that cost 14 had FERC disallowed the ASOA without the reimbursement, 15 correct?
- 16 A. FERC's normal policy right now is not to require reimbursement, correct.

MR. JOSEY: Okay. No further questions.

CHAIR MITCHELL: You may redirect, if any.

MR. SNOWDEN: No redirect. Thank you.

CHAIR MITCHELL: All right. Commissioner

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COMMISSIONER CLODTELTER: First of all, congratulations on your office relocation to the Music

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    Factory.
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- 2 THE WITNESS: Thank you. It's a fun place.
- 3 COMMISSIONER CLODFELTER: Yeah. It's a
- 4 great place.
- 5 EXAMINATION BY COMMISSIONER CLODFELTER:
- 6 Q. A lot very interesting information. But just to be
- 7 sure, I get the core absolutely clear in my head.
- 8 Nobody now is going to be asking for an expediting of
- 9 the actual construction of the project.
- 10 Α. (Ms. Robichaud) Correct.
- 11 Q. That issue is gone.
- 12 Α. Correct.
- 13 0. Sumac's not asking for it?
- 14 Α. Sumac is not.
- 15 Neither is Sweetleaf nor Macadamia? Q.
- 16 Neither Sweetleaf nor Macadamia. Α.
- 17 COMMISSIONER CLODFELTER: So I got it.
- 18 Thank you.
- 19 CHAIR MITCHELL: Okay. Just a few questions
- 20 for you.
- **EXAMINATION BY CHAIR MITCHELL:** 21
- 22 You discussed in testimony the process you-all went
- 23 through in sitting down with the FERC and walking through
- 24 the method used to develop the expedite fee, and you

- 1 referenced a FERC attorney or FERC's attorney. Do you
- 2 remember the name of that attorney?
- 3 A. (Ms. Robichaud) Our FERC attorney.
- 4 Q. Oh, it was your FERC attorney.
- 5 A. Yes.
- 6 Q. It wasn't an employee of the Federal Energy Regulatory
- 7 | Commission?
- 8 A. No. Our attorney is --
- 9 Q. Okay. Then you don't have to answer that question. You
- 10 also discussed developing the method with Duke. Do you
- 11 know the name of the Duke employee you-all worked with?
- 12 A. The gentleman -- we met with him. I just don't
- remember his name.
- 14 Q. Was he in -- which --
- 15 A. Rates. He was in the rates division.
- 16 Q. Okay.
- 17 A. So we had a team of people we met with; Ann Warren,
- 18 Christina; either transmission folks, rate folks, and
- 19 project folks. And so there's a group of five or six
- 20 people. We went through a method that they came up
- 21 with. I proposed some alternate methods. All the
- methods we came up with were a little bit too
- 23 simplified and had holes, so we just opted to stay with
- 24 what we had. The different methods were pretty close in

- the final outcome anyways. And so they had, amongst
 themselves in the rate department, discussed what the
 appropriate way was, and we had several people weigh in
 on -- from Duke saying that's probably the way they'll
 do it, and that's how we ended up settling on before we
- Q. Okay. Is it your understanding and was it your team's understanding that the cost associated with expediting the construction of the facility would flow through the OATT in the same way that the Affected System cost would flow through the OATT?
- 12 A. Yes.

13 Q. Okay. And was that Duke's understanding as well?

went to our FERC conferences.

- 14 A. Yes.
- Q. Okay. Do you know pursuant to what term of the OATT those costs would be governed? If you don't, that's okay. I'm just --
- 18 A. I do not.
- Q. Okay. Not a problem. I'm just curious if you knew off the top of your head. So as I understand it, the facility is to be -- so let me ask the question this way: My understanding is that Duke's plan to construct the Everetts-Greenville line is to occur in 2027, or at least be placed in service by 2027? Do I understand

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1 that correctly?
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- A. Actually, they told us now it was 2026, but they gave themselves a six-month buffer. And the Affected System Study Agreement, they called it June 1st, 2027, but that's only if unforeseen circumstances arise would it stretch into 2027.
- Q. Okay. So let's assume that Duke is able to construct this line in 2026 without having to move into its buffer. That timeframe is consistent with the needs of the projects we're discussing today, Macadamia, Sumac, and Sweetleaf?
- 12 A. It would work with all three projects, yes.
- Q. So the projects, at this point in time, don't see a need to request expediting of Duke's work?
- 15 A. No. We have risk -- we will mitigate in order to make the 2026 work.
- 17 Q. Okay.
- 18 CHAIR MITCHELL: Let me check in with
- 19 Commissioner Duffley. Questions, Commissioner Duffley?
- COMMISSIONER DUFFLEY: No questions.
- 21 CHAIR MITCHELL: Questions on Commission's
- 22 questions. Go ahead.
- COMMISSIONER CLODFELTER: Just to be sure
- 24 | there's nothing under this rock, and there shouldn't be, but

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1 let me just ask it.
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2 EXAMINATION BY COMMISSIONER CLODFELTER:

- Q. So the cost of reconductoring are all attributable to the Greenville-Everetts line, none to the Greenville-Aurora
- 5 | line. They'll be on the same structures right?
- 6 A. Correct.
- Q. Okay. I was going to stay there shouldn't be any costs, but I just wanted to be sure.
- CHAIR MITCHELL: And Ms. Robichaud, I'm going to ask you this question, and if you don't know the answer, that's totally fine.
- 12 | EXAMINATION BY CHAIR MITCHELL:
- Q. What's your understanding of why Duke moved this work from an upgrade project to a Reliability Project?
 - A. Well, technically, they were working on the Reliability Project, which is much bigger. You got the Greenville to Aurora line, which is, I don't know, 12 spans, which is -- must be like 12, 15 miles or something like that. In our little section, which was only 1.8 miles, and so I think they were probably focused more on the larger piece. But because it was on the same conduit, they didn't focus as much on the smaller Everetts to Greenville. So I think once they finished their

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Reliability planning, they realized they were

- addressing the same structures, and they ended up
- 2 saying ours is part of the Reliability plan and no
- 3 longer pursued it.
- 4 Q. And when you say "same structures," do you mean tower replacement and wires replacement?
- 6 A. Right. So they have common towers, so Duke is planning
- 7 to build an adjacent double-circuited line to the
- 8 current line, of which our Everetts to Greenville,
- 9 1.87, will be on that, and then the other very longer
- 10 line will also be on it.
- 11 Q. Okay. So Duke is going to build -- one last question
- for you. Duke's going to build a new double-circuited
- 13 line adjacent to the existing line. And will the
- existing line then be taken out of service once the new
- double circuit's in service?
- 16 A. That's my understanding.
- 17 Q. All in the same transmission right-of-way?
- 18 A. They have to acquire new right-of-way. They don't have
- enough right-of-way, but it's going to be adjacent and
- 20 parallel to the existing right-of-way for the upgrade.
- Q. Okay. But your understanding is outside of
- 22 right-of-way.
- 23 A. Correct.
- 24 Q. Do you know whether Duke will seek a CECPCN for this

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1 project?
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- 2 A. I do not.
- 3 Q. Okay.
- 4 CHAIR MITCHELL: Thanks for your responses.
- 5 Anything else? Duffley.
- 6 COMMISSIONER DUFFLEY: No.
- 7 CHAIR MITCHELL: Questions on Commission's
- 8 questions. We'll start with the Public Staff and then
- 9 Mr. Snowden.
- MR. JOSEY: I just have two.
- 11 | EXAMINATION BY MR. JOSEY:
- 12 Q. You mentioned that there were two meetings with FERC
- 13 | staff?
- 14 A. Correct.
- 15 Q. Can you say why there were two?
- 16 A. Um, initially, Duke was reluctant to negotiate another
- agreement that could be rejected by FERC. So they
- 18 thought about it and talked amongst themselves and came
- 19 back and said, "If you talk to FERC and try to get a
- read from them, we'll consider it." So we came up with
- a plan where we talked to FERC and we told them why we
- 22 wanted it, and FERC sort of gave us an outline to
- follow on the data they would want and the information
- they would want.

And then we didn't have very good
information about the expediting cost, so we came back
for a second meeting. This time, it was with Duke. And
we explained the expediting cost and sort of went
through the project. So I think we were waiting to see
if FERC slammed the door. They did not, and so we were
planning to pursue based on their guidance to us.

- Q. Okay. And FERC's interest in the expedited construction cost, be -- I mean is that -- I think you said earlier there was no -- there's no other facility, to your knowledge, that's asked for this expedited construction?
- A. We had found some cases, but they weren't for financing costs. They were over time, additional equipment procurement costs, sort of things from third-party, but not cost-to-capital type of expediting costs.

MR. JOSEY: That's all the questions.

MR. SNOWDEN: Thank you. Just one or two.

EXAMINATION BY MR. SNOWDEN:

Q. Ms. Robichaud, just to be clear, even with the updated timelines for the DEP Upgrade that you-guys received and you referenced a few minutes ago, withdrawing the request to expedite does increase the costs and risks for the project. Is that right?

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1 A. Yes, it does.
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- 2 Q. But it's just that you-all are able to mitigate those
- 3 risks and costs and live with them rather than increase
- 4 the risk for the CPCN. Is that right?
- 5 A. Correct.
- 6 MR. SNOWDEN: Thank you. Those are all the
- 7 questions I have.
- 8 CHAIR MITCHELL: All right, Ms. Robichaud.
- 9 We have one more question for you, then we'll go through the
- 10 round again.
- 11 | EXAMINATION BY CHAIR MITCHELL:
- 12 Q. You just mentioned in your research, y'all had
- 13 | identified several other projects that involved expedite
- 14 | fees. Were those Duke projects?
- 15 A. No.
- 16 Q. They were -- which utilities were they?
- 17 A. One was in CERC, and I don't remember the other one.
- 18 Q. Okay, but not DEC or DEP?
- 19 A. No.
- 20 CHAIR MITCHELL: All right. Questions?
- MR. SNOWDEN: I have one question.
- 22 CHAIR MITCHELL: On that question?
- MR. SNOWDEN: On that question, yes indeed.
- 24 EXAMINATION BY MR. SNOWDEN:

- Q. So Ms. Robichaud, is it your understanding that FERC's standard, the OATT, the proforma interconnection agreements and procedures, specifically provide for expediting costs. Is that right?
- 5 A. The OATT does provide for expediting cost, and it says
 6 that if we fund it, we would get transmission credits
 7 back.
 - Q. Okay. It's just that there's not a standard methodology for calculating costs that's in the OATT anywhere. Is that right?
- 11 A. Correct.

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- MR. SNOWDEN: Okay. Thank you.
 - CHAIR MITCHELL: Okay. With that, I believe we have come to the end of cross-examination and examination of these witnesses, unless I'm missing something.

(No response)

CHAIR MITCHELL: You-all may step down. Thank you very much for your testimony today. Any additional witnesses?

MR. SNOWDEN: Chair Mitchell, we have Robert Turnbull who is specific to EMP-119, Sub 1, the Transmission Line case. We're certainly happy to present his testimony here, but my understanding is that if we're in a consolidated hearing, then it may be better for the

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     Commission to take his testimony outside of this hearing.
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                    CHAIR MITCHELL: Right. And you would be
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     correct on that last point, so we will not hear from him
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     today.
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                    MR. SNOWDEN: Okay.
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                    CHAIR MITCHELL: But we will address his
 7
     testimony by later Order of the Commission.
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                    MR. SNOWDEN: Okay. Thank you. So we have
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     no other witnesses.
                    CHAIR MITCHELL: Okay. Public Staff, you may
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     call your witnesses.
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                    MR. JOSEY: Public Staff calls Jay Lucas and
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     Evan Lawrence.
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                    CHAIR MITCHELL: Gentleman, place your left
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     hands on the bible and raise your right hands.
16
                             JAY LUCAS;
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                             EVAN LAWRENCE;
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                             being duly sworn,
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                             testified as follows:
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                    MR. JOSEY: I'll ask you a couple qualifying
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     questions. Mr. Lucas, I'll start with you.
22
     DIRECT-EXAMINATION BY MR. JOSEY:
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          Could you state your name, business address, and
24
     position with Public Staff.
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- A. (Mr. Lucas) My name is Jay Lucas at 430 North Salisbury

 Street, Raleigh, N.C., and I am the Section Manager for

 Operations and Planning in the Public Staff's Energy

 Division.
- 5 Q. And Mr. Lawrence, can you answer the same question.

A. (Mr. Lawrence) My name is Evan Lawrence. My business address is 430 North Salisbury Street. I'm an Engineer in the Operations and Planning Division section of the Energy Division.

MR. JOSEY: Chair, this panel is open for Commission questions.

CHAIR MITCHELL: All right. So just to be clear for the record, it's my understanding that the Applicant has no cross-examination for these witnesses, so we will start with questions by the Commissioners. Let me check in with -- well, Commissioner Clodfelter, do you have questions for the witnesses?

COMMISSIONER CLODFELTER: Yes.

CHAIR MITCHELL: Go ahead.

EXAMINATION COMMISSIONER CLODFELTER:

Q. Gentleman, in no particular order, some of these questions right now may be of academic interest given the change in circumstances, but since you put them in your supplemental testimony, we're going to ask you

about them, if that's all right. One of the things that was in the supplemental testimony was the contention that PJM had the related -- made certain upgrades within -- I assumed the DENC system or somewhere else in PJM -- I don't know exactly where because that's not identified -- that would obviate the need for Duke Progress to incur costs for any Affected System Upgrades, and I wanted to hear more about that.

What were you referring to? Say more about what PJM -- what you believe PJM could have done to avoid these Affected System Upgrades, or to avoid -- now they're not Affected System Upgrades anymore. They're the reconductoring of the Everetts-Greenville and Everetts-Aurora lines. What could PJM have done to avoid that?

A. (Mr. Lucas) It wasn't necessarily to avoid those two upgrades, those two Transmission Lines. The Public Staff had a discussion with Dominion's staff, and I believe PJM's staff was there a year and a half ago, something like that, and they discussed the possibility of a new 500 kV line in southern Virginia to alleviate the congestion in DENC and possibly other points in southern Virginia. We asked Dominion that specific question on September 2nd, and they responded that they

- had considered a new 500 kV line from the Everetts

 substation up into Suffolk, Virginia that was to help

 resolve the Reliability problems, but they decided that

 that line would not be cost-effective and it would not

 have been cost-effective in resolving the deficiencies,

 let me put it that way.
- 7 Q. That would have been, as you describe it, and make 8 sure my understanding is correct, that would have been 9 a major new project?
- 10 A. Yes.
- 11 Q. And it would have addressed Reliability issues that go
 12 far beyond anything that might have been occasioned by
 13 interconnecting these three projects.
- 14 A. Yeah. It would have gone way beyond these three15 projects.
- Q. So that project was really not specifically associated with the consequences of interconnecting these three projects to DES's grid?
- 19 A. That's correct.
- Q. Okay. Well, thank you for that. I appreciate that
 clarification. What kind of investigation did the
 Public Staff do or has done into the circumstances that
 led Progress to reclassify the Everetts-Greenville
 reconductoring as a Reliability upgrade?

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   Α.
          We found out about the upgrade on DEP's side to resolve
 2
          problems with the line due to age and condition. We
 3
          found out it was after DEP released its Affected System
 4
          Study, its latest one, on June 8th. We asked some
 5
          questions about the incremental upgrade necessary in
 6
          comparison to DEP's upgrade due to age and condition.
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          We also asked DEP some questions on September 2nd after
          getting Commission's Order. Let's see if I can
9
          summarize this for you. We had that correspondence, and
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          we can provide it as a late-filed exhibit, but they did
11
          not want to present it to the NCTPC, at this time,
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          because they just weren't ready to. They want to get
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          the Affected System Operating Agreement in place and
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          approved by FERC, so it's all preliminary. We don't
15
          have a lot of information right now on that line other
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          than that.
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- Well, unless there's some objection, just out of Q. 18 curiosity's sake, I'd be interested in the late-filed 19 exhibit, if you can.
- 20 Α. Okay. We've got to --

23

- 21 Unless there's some objection to that. Q.
- 22 No objection. MR. SNOWDEN:
 - 0. What I want to understand is the scope of the proposed Reliability Project as compared to what was originally

identified as being an upgrade cost by or occasioned by
the interconnection to these three projects, has the
scope -- how does the scope of those two compare? When
you first learned about this, it was going to be an
Affected System Upgrade. Has the scope of the project
changed now that it's become a Reliability Project?
And if so, how?

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- A. I don't believe the scope has changed for that
 Reliability Project, but first came the plan for the
 interconnection. And then after DEP evaluated the
 line, they made the decision to upgrade that line based
 on its age and condition. At this time, I can't
 separate what would have been occurring at DEP without
 interconnection of these three facilities..
- Q. Well, would it be fair then -- from what you do know,
 would it be fair to say that the filing of the
 applications for interconnection and the consequent
 need for the Affected System Study is what triggered
 Duke to realize that it an end-of-life problem on these
 lines?
- 21 A. Um, that's what I've gathered, but I can't testify
 22 exactly what DEP had done in the absence of the three
 23 facilities.
- 24 Q. It doesn't sound like you have much more information

- than what you got from Duke in the recent exchange
 of correspondence. Is that accurate?
- 3 A. Not anything other than what I've already told you.
- 4 Q. Okay.
- 5 COMMISSIONER CLODFELTER: I'll leave you alone
- 6 then. Thank you.
- 7 CHAIR MITCHELL: All right, Mr. Lucas.

8 | EXAMINATION BY CHAIR MITCHELL:

- 9 Q. The 500 kV line that Dominion was planning, that you've
- discussed earlier in your testimony or earlier in your
- responses to Commissioner Clodfelter's questions, do
- 12 you know was that considered a supplemental project by
- 13 DENC for purposes of the buckets of project that PJM --
- 14 A. I'm not sure what you mean by "supplemental project."
- 15 Q. Like a local -- as opposed to a project that would move
- 16 through the RTEP or is this a local --
- 17 A. It was -- I would say it was beyond a local project.
- 18 It was a 500 kV project that would have moved a whole
- 19 lot energy out of DENC and up into Virginia.
- 20 Q. So would it have been considered as part of the PJM,
- 21 RTEP?
- 22 A. I can only guess so. Just by the size of the line, I
- don't have any definitive information.
- 24 Q. Okay. You also discussed upgrade you to age and

- 1 So my understanding of what happened in condition. 2 this case is DEP -- at least as I understand your 3 testimony, DEP performed a series of Affected System 4 Studies associated with these interconnection requests. 5 second -- the first revision and the And between the 6 second revision, moved the upgrades to -- identified in 7 these studies from upgrades associated with the interconnection to upgrades for reliability purposes. 9 Do I understand that correctly?
- 10 A. Well, became both. It was an upgrade due to age and condition, and some increased --
- 12 Q. The incremental portion would be attributable to the --
- 13 A. To the three facilities, yes.
- 14 Q. Okay. All right, but I understand that correctly. I
 15 mean that's --
- 16 A. Yes. Between I guess it's called the second and the 17 third Affected System Study --
- 18 Q. Okay.
- 19 A. -- DEP decided to do the upgrade.
- Q. You've kind of danced around this with Commissioner
 Clodfelter, but was it a surprise to the Public Staff
 that at least a portion of this project or this
 facility was identified as being -- needing to be
- replaced due to age and condition?

- 1 A. Yes, it was a surprise. We only learned about it right
- 2 after the release of the latest Affected System Study
- 3 on June 8th.
- 4 Q. So how much visibility does the Public Staff have, in
- general, about transmission assets and those that are
- 6 nearing that point in time where they need to be
- 7 replaced due to age and condition?
- 8 A. We find out some of them by looking for the NCTPC
- 9 website. There's no direct notification by Duke Energy.
- They don't need a certificate to do these. We primarily
- get involved during cost recovery during a general rate
- 12 case.
- 13 Q. So is it your understanding that this Greenville to
- 14 Aurora line would not need a CECPCN?
- 15 A. You mean Greenville to Everetts or --
- 16 | 0. Well --
- 17 A. Or either one.
- 18 Q. So -- okay. Let's start at the beginning then. So the
- 19 project goes from Greenville to Everetts and Greenville
- 20 to Aurora as a segment of the larger Greenville to
- 21 Everetts line?
- 22 A. I do not believe they would need a certificate.
- 23 Q. Okay. But just help me understand the components of the
- project. It's a Greenville to Everetts line?

- 1 A. Yes.
- 2 Q. And then a segment of that line is Greenville to
- 3 Aurora?
- 4 A. I had not heard about the Aurora part at all until today.
- Q. Well, so, but the Greenville to Everetts portion would not need a CECPCN?
- 8 A. That's correct.
- 9 Q. And so did you hear Ms. Robichaud's testimony that it
 10 would be -- that she understood the project to be
- outside the existing right-of-way?
- 12 A. I just learned that today, but it could be in the area.
- 13 If it's an adjacent easement, it still would not need a
- 14 certificate.
- 15 Q. It wouldn't need certificate?
- 16 A. It would not.
- 17 Q. And so we're doing a double-circuiting -- we're
- 18 basically building a whole new line. As I understood
- 19 Ms. Robichaud's testimony, new towers, double circuit,
- 20 taking the old towers and the old line out of service,
- 21 and you still wouldn't need a CECPCN?
- 22 A. That's correct.
- 23 Q. Okay. And I understand -- make sure I understand your
- testimony correctly. The Public Staff doesn't learn

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about -- let me say it this way -- doesn't always learn

about facilities that need to be replaced as a result

of age and condition until situations like this?
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4 There's an interconnection request that triggers

5 study of these facilities or they appear on the NCT --

6 let me ask the question again, so I'm clear. How much

7 visibility, how much foresight does the Public Staff

have about facilities on the -- transmission facilities

9 that need to be replaced due to age and condition?

- 10 A. We would only see that by going to the NCTPC website.
- 11 That's the only way we find out about it. This one
- came up because there was an Affected System Study.
- That's the only way we found out this early for
- 14 particular line.
- 15 Q. So it wasn't yet on the NCTPC?
- 16 A. It's not yet.
- 17 Q. But presumably it would be at some point?
- 18 A. Yes.
- 19 Q. Okay. Got it. And how much foresight or how much
- 20 advanced notice does appearance on the NCTPC give
- 21 the Public Staff?
- 22 A. It would give us probably a couple years.
- 23 Q. Okay. Not 10 years?
- 24 A. Well, there's four looking plans for some of this type

- of work can be done, but I couldn't tell you specifically.
- Q. Okay. Does the Public Staff agree with the Applicant's contention that expedite costs would flow through the OATT in the same manner that Affected System Costs would flow through the OATT?
- 7 A. Um, I can't address that right now. We would be concerned about these Affected System Costs being placed on the Using and Consuming Public.
- 10 Q. Okay.
- 11 A. So we can oppose them.
- Q. Okay. I got it. You answered my question. In
 discussions -- this is for either of y'all. In
 discussions that you-all -- that Public Staff has had
 either with PJM or with Duke Energy Progress,
 what have you learned about PJM's obligation to pick
- the least cost Affected System Upgrade that occurs on the DEP's side?
- 19 A. I don't have any knowledge about PJM being required to20 do any least cost.
- Q. So is PJM obligated to identify a least cost solution on the Affected System cost side or is DEP obligated to identify a least cost solution?
- 24 A. I don't know about PJM, but the normal practice is

- during the Public Staff's review during the general rate, we would look at the prudency of those expenses.
- 3 Q. You would look at the prudency of both Dominion's --
- 4 A. Of DEP's costs to do the Affected System Upgrades.
- 5 That would be part of a general rate case.
- Q. Okay. Have you ever participated in the review and the audit of Affected System Costs -- Affected System
- 8 Upgrade Costs incurred by DEP?
- 9 A. No audit other than us reviewing the Affected System
 10 Studies.
- 11 Q. Okay. I'm trying to determine have you-all had to 12 review any of those costs yet?
- 13 A. They have not come up in a general rate case yet.
- 14 Q. Okay.
- 15 A. (Mr. Lawrence) These have all happened fairly recently,
- and I'm not sure that there have been any substantial
- ones that have been within a rate case.
- 18 A. Okay.
- 19 Q. And my understanding of the process from PJM's side,
- 20 they let their Affected System know that there is a
- potential for problems, and then it's up to that
- 22 Affected System to actually study it and determine
- 23 whether -- the best course of action and whether costs
- are how the upgrade or how the reliability concern if

- 1 there is one and if it needs to be addressed.
- Q. Okay. So, Mr. Lawrence, do I understand your testimony
- 3 to be that PJM would rely on the Affected System to
- 4 identify the upgrade necessary to meet its system needs
- 5 and PJMs were out of the process?
- 6 A. That's correct.
- 7 Q. Okay. Has the Public Staff heard from any other
- 8 merchant facilities or proposed merchant facilities
- 9 about a need to expedite construction or expedite any
- 10 other costs associated with -- costs or work associated
- 11 | with --
- 12 A. (Mr. Lucas) This is the first time we've ever seen
- expedited costs.
- 14 Q. Did the Public Staff participate in the meeting with
- 15 the FERC and Duke?
- 16 A. No.
- 17 Q. Has the Public Staff had any discussions with the FERC
- about the expedited costs?
- 19 A. No.
- 20 Q. Okay.
- 21 CHAIR MITCHELL: All right. Commissioner
- 22 Duffley.
- 23 | COMMISSIONER DUFFLEY: So just a couple of
- 24 questions.

1 | EXAMINATION BY COMMISSIONER DUFFLEY:

- Q. Going back to the end of life, are you aware, does Duke have metrics for determining end of life, like X number of years? How do they determine that a line has reached its end of life, and do they have that written down somewhere?
- A. (Mr. Lucas) They do have procedures. This line's held up by two wooden poles, and they have a program where they periodically drill holes into the power pole and see what's going on. And they put a little tag on it and they find that it's still sound to schedule the next time to come around.
 - Q. Okay. And then going to Chair Mitchell's questions about PJM and what they're doing on their system can potentially minimize the Affected System Upgrades on DEP's system, do you know does Duke get involved with making suggestions or changes that you're aware of?
- 18 A. I'm not aware any communications like that.
- 19 Q. Okay. Thank you.

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- COMMISSIONER DUFFLEY: I don't have anything further.
- CHAIR MITCHELL: All right. We will take questions on Commissioner's questions. Mr. Snowden.
- MR. SNOWDEN: Thank you, Chair Mitchell.

1 | EXAMINATION BY MR. SNOWDEN:

- 2 Q. Mr. Lucas, I just had a couple of questions 3 regarding -- to follow up with the Commissioner's questions regarding the scope of the Reliability 4 5 Project. Did you hear Ms. Robichaud's testimony from 6 earlier that the Reliability Project that DEP is now 7 contemplating involves replacing additional line 8 segments beyond the Greenville -- sorry, beyond the 9 Everetts-Greenville segment that was called out in the 10 original Affected System Studies?
- 11 A. I did not know that it involved additional line 12 segments, other than the Everetts-Greenville line.
- Q. Okay. So you had not previously heard about the
 Greenville to Aurora line also being part of that
 Reliability upgrade?
- 16 A. I had not heard that.
- Q. Okay. But you don't have any reason to disagree with Ms. Robichaud's testimony on that, do you?
- 19 A. No.
- MR. SNOWDEN: Okay. Those are all the
- 21 | questions I have. Thank you.
- 22 CHAIR MITCHELL: Public Staff.
- MR. JOSEY: Just at a few.
- 24 EXAMINATION BY MR. JOSEY:

- 1 Q. Mr. Lucas, you were talking or explaining to the Chair
- on her question about whether or not the Public Staff
- 3 had reviewed any Affected Systems Upgrade costs, and
- 4 you had said no, correct?
- 5 A. That's correct.
- 6 Q. And to your knowledge, it was about 2020 when the
- 7 Public Staff realized that Affected Systems Upgrade
- 8 costs was an issue?
- 9 A. Yeah. We did not realize Affected Systems were a
- 10 problem until May of 2020.
- 11 Q. And to your knowledge, the only facility to have a
- 12 CPCN issued that has Affected Systems cost, until this
- point, is Edgecombe Solar?
- 14 A. That's correct.
- 15 Q. Okay. And so the Public Staff would review those
- 16 Affected Systems Upgrade costs in the next DEP rate
- 17 | case, correct?
- 18 A. That's correct.
- 19 MR. JOSEY: No further questions.
- 20 CHAIR MITCHELL: Mr. Josey, just reminding
- 21 | you we'd like a late-filed exhibit, communications with DEP
- 22 | referenced by Mr. Lucas in his testimony today.
- 23 MR. JOSEY: We will file that as soon as
- 24 possible.

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                    CHAIR MITCHELL: I believe we are at the end
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     of these gentlemen's testimony. Just checking in, make sure
 3
     I'm not missing something here.
                    MR. JOSEY: Excuse me?
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                    CHAIR MITCHELL: We're at the end of the
 6
     testimony of these gentlemen. Am I missing anything here?
 7
                    MR. JOSEY:
                                Just want to make sure that our
 8
     panel has answered all the Commission's questions from the
9
     September 2nd or September 6 -- well --
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                    CHAIR MITCHELL:
                                     Okav.
11
                    MR. JOSEY: September Order.
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                    CHAIR MITCHELL: I'm checking back in the
13
     back corner to get a head nod or a shake. Okay. Commissioner
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     Duffley, any additional questions for these gentlemen before
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     we let them go?
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                    COMMISSIONER DUFFLEY:
                                           No.
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                    CHAIR MITCHELL: All right, gentlemen, y'all
     may step down. Thank you very much for your testimony
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     today.
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                    MR. SNOWDEN: Chair Mitchell, I think the
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     witness presentations are done. If I may, to the extent
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     that there are subsequent hearings scheduled in these
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     dockets, in the EMP-111 and 110, we would request that they
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be cancelled.

CHAIR MITCHELL: We will address additional procedural issues such as the cancellation of hearings and subsequent Order of the Commission in each of the respective dockets, unless the Public Staff objects.

MR. JOSEY: No objection.

Objection from the Public Staff. We will take proposed

Orders as soon as you want to get them in, subsequent to the notice of transcript's availability. Yeah. For purposes of the record, I just want to remind Commissioners of our duty to avoid conflicts and inquire as to whether any member of the Commission has a conflict with this matter coming before us.

(No response)

CHAIR MITCHELL: I'm seeing nothing. No conflict from Duffley, no conflict from Clodfelter, so we are clear from the conflict standpoint. Before we adjourn for the afternoon, anything else? Public Staff?

MR. JOSEY: No.

CHAIR MITCHELL: Mr. Snowden?

MR. SNOWDEN: No thanks. I just want to say thank you for expediting these proceedings. I know it's in everyone's mutual interest, but we've all got stuff to do and I can go pick my daughter up from rowing practice now.

1	COMMISSIONER CLODFELTER: We charge a lot
2	less for expediting than apparently Duke does.
3	CHAIR MITCHELL: Apparently, we need to
4	develop a methodology here. With that, then, we'll be
5	adjourned. Thank you very much everybody, and we're off the
6	record.
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8	(Whereupon, the hearing was adjourned)
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CERTIFICATE

I, TONJA VINES, 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.

Tonja Vines