

1 BEFORE THE ARIZONA POWER PLANT LS 316

2 AND TRANSMISSION LINE SITING COMMITTEE

3

4 IN THE MATTER OF THE) DOCKET NO.
 4 APPLICATION) L-21254A-23-0184-00222
 5 OF AURORA SOLAR LLC IN)
 5 CONFORMANCE WITH THE)
 6 REQUIREMENTS OF ARIZONA) LS CASE NO. 222
 6 REVISED STATUTES §§ 40-360, ET)
 7 SEQ., FOR A CERTIFICATE OF)
 7 ENVIRONMENTAL COMPATIBILITY)
 8 AUTHORIZING THE OBED MEADOW)
 8 230-KV GENERATION TIE-LINE)
 9 PROJECT, WHICH INCLUDES THE)
 9 CONSTRUCTION OF A SUBSTATION)
 AND GENERATION TIE-LINE)
 10 ORIGINATING APPROXIMATELY 2.4)
 MILES SOUTHWEST OF THE APS)
 11 CHOLLA SUBSTATION ON PRIVATE)
 LAND UNDER THE JURISDICTION OF)
 12 NAVAJO COUNTY, ARIZONA, AND)
 TERMINATING IN THE APS CHOLLA)
 13 SUBSTATION IN NAVAJO COUNTY,) EVIDENTIARY HEARING
 ARIZONA.)
 14 _____)

15 At: Flagstaff, Arizona

16 Date: August 9, 2023

17 Filed: August 14, 2023

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19 REPORTER'S TRANSCRIPT OF PROCEEDINGS
 20 VOLUME III
 (Pages 296 through 455)

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1 BE IT REMEMBERED that the above-entitled
2 and numbered matter came on regularly to be heard before
3 the Arizona Power Plant and Transmission Line Siting
4 Committee at Little America Hotel, 2515 East Butler
5 Avenue, Flagstaff, Arizona, commencing at 9:00 a.m. on
6 August 9, 2023.

7 BEFORE: ADAM STAFFORD, Chairman

8 GABRIELA S. MERCER, Arizona Corporation Commission
9 LEONARD DRAGO, Department of Environmental Quality
10 DAVID FRENCH, Arizona Department of Water Resources
11 (Via Videoconference)
12 R. DAVID KRYDER, Agriculture Interests
13 SCOTT SOMERS, Incorporated Cities and Towns
14 (Via Videoconference)
15 ROMAN FONTES, Counties
16 (Via Videoconference)
17 MARGARET "TOBY" LITTLE, PE, General Public
18 COL. JON H. GOLD, General Public

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1 CHMN STAFFORD: Let's go back on the
2 record.

3 With us today we have representatives from
4 APS, if we could take appearances from APS, please.

5 MR. DERSTINE: Good morning, Mr. Chairman,
6 committee members. Matt Derstine, appearing on behalf of
7 Arizona Public Service Company, appearing with me is
8 Linda Benally, regulatory counsel for APS.

9 CHMN STAFFORD: Thank you.

10 Mr. Crockett, I believe you had some
11 additional exhibits to -- you would like to admit.

12 MR. CROCKETT: Yes, Chairman Stafford. And
13 if we could recall witnesses Hadley and Hoffbuhr, we do
14 have some additional exhibits, and then I do have some
15 additional direct examination for these witnesses before
16 we move on this morning to the APS witness.

17 CHMN STAFFORD: Okay. Remember, the
18 witnesses are still under oath.

19 Thank you.

20

21 D I R E C T E X A M I N A T I O N (Cont.)

22 BY MR. CROCKETT:

23 Q. Good morning, Mr. Hadley.

24 A. (MR. HADLEY) Good morning.

25 Q. What you have before you and I've placed in

1 front of the Line Siting Committee members --

2 Oh, and let me -- let me just mention, Chairman
3 Stafford, these exhibits we --

4 Mr. Miner, were we able to forward the PDF
5 copies of these additional exhibits to Mr. Brewer to
6 forward to the members online?

7 A. (MR. MINER) Yes, we did, and a copy also went to
8 the court reporter.

9 MR. CROCKETT: Okay. And then each of the
10 members in the -- committee members in the room have
11 copies of these exhibits.

12 Q. So, Mr. Hadley, yesterday we were talking about
13 an exhibit to be late filed that was referenced as OM-26.

14 Do you have a copy of that exhibit in front of
15 you?

16 A. (MR. HADLEY) Yes.

17 Q. And is this Exhibit an image taken from the
18 virtual tour that shows a possible fifth structure type
19 that might be used in the Obed Meadow gen-tie?

20 A. Yes, it is.

21 Q. Okay. And did you prepare this exhibit based on
22 the -- the virtual tour?

23 A. (MR. HADLEY) Yes.

24 Q. And then, Mr. Hadley, yesterday we had some
25 discussion in the afternoon regarding the fact that there

1 is not a System Impact Study that has been completed at
2 this point in time, which includes the proposed Obed
3 Meadow gen-tie project with the substation.

4 Have you had occasion to go back and look at the
5 docket over the last 18 to 24 months to determine whether
6 there have been other cases where the Line Siting
7 Committee has approved a CEC and the Arizona Corporation
8 Commission has approved a CEC where the applicant did not
9 submit a System Impact Study?

10 A. (MR. HADLEY) Yes, we have.

11 Q. And did you identify at least three examples of
12 that?

13 A. (MR. HADLEY) That is correct. I believe they
14 are cases 206, 202, and 196.

15 Q. Okay. And I'd like to take those in reverse
16 order, beginning with case 206.

17 Mr. Hadley, was case 206 a case involving the
18 West Camp Wind gen-tie project?

19 A. (MR. HADLEY) Yes.

20 Q. And is that a case where there was an
21 evidentiary hearing held on October 11th and 12th in
22 2022?

23 A. (MR. HADLEY) Correct.

24 Q. If I could direct your attention to Exhibit
25 OM-27. Do you have that exhibit?

1 A. (MR. HADLEY) I do.

2 Q. And would you please identify that exhibit for
3 the record?

4 A. (MR. HADLEY) That is Exhibit 27, it is the Staff
5 recommendation letter from October 4th, 2022.

6 Q. And that pertains to the West Camp Wind project?

7 A. (MR. HADLEY) Correct.

8 Q. If I could direct your attention to the second
9 page of that letter, there's some highlighted language
10 there.

11 A. (MR. HADLEY) Yes.

12 Q. Do you see that?

13 A. (MR. HADLEY) I do.

14 Q. So with regard to the first -- the second full
15 paragraph on page 2, what -- would you please describe
16 what Staff's analysis is in that paragraph?

17 A. (MR. HADLEY) Sure. And, if I may, I may just
18 read from the letter to be accurate.

19 Q. Please.

20 A. (MR. HADLEY) "Since the proposed project
21 includes two different levels of interconnection at the
22 Cholla Substation, separate studies needed to be
23 conducted to determine the effects, if any, on the
24 transmission system. APS conducted a cluster System
25 Impact Study, SIS, for the 345-kV option. The study

1 evaluated the effects of the 345-kV option, along with
2 other projects in the APS interconnection queue, and
3 concluded there would be negative impacts on the APS
4 transmission system and would require new transmission
5 lines and transformers to be constructed to mitigate the
6 effects.

7 However, West Camp stated a very small portion
8 of the identified impacts were attributed to the 345-kV
9 project and that if any of the other projects in the
10 study cluster were withdrawn from the queue, transmission
11 impacts would be diminished or eliminated. The applicant
12 indicated that a facility study would be done on the
13 proposed 345-kV line early in 2023 to further study any
14 potential system impacts."

15 And then, if I may, I'd like to read the small
16 un-highlighted paragraph below to provide more evidence.

17 Q. Please.

18 A. (MR. HADLEY) "The applicant also stated that APS
19 was in the process of conducting the study for the 500-kV
20 option, and did not have the results yet, therefore,
21 staff was unable to determine any potential impacts on
22 the electrical grid for this option of the project."

23 Q. Just to finish the analysis here, what was
24 Staff's conclusion and recommendation?

25 A. (MR. HADLEY) Certainly. And I will recite again

1 from the letter. "Based on Staff's review of the
2 application, as well as the applicant's response to a
3 Staff-issued data request, Staff is unable to fully
4 comment on whether the proposed project could improve the
5 reliability, safety of the grid, and the delivery of
6 power in Arizona. At this point, an individual SIS has
7 not yet been prepared for the 345 gen-tie option, and the
8 SIS that was prepared, in addition to other projects in
9 the APS review queue, identifies significant impacts to
10 the APS transmission system. Further, Staff believes
11 that the study for the proposed 500-kV gen-tie line needs
12 to be completed to fully evaluate the proposed project.
13 Therefore, Staff recommends the Line Siting Committee
14 allocate sufficient time during the hearing to review the
15 System Impact Study that was not yet complete at the time
16 of Staff's review of the project."

17 Q. Okay. Thank you.

18 And, Mr. Hadley, was the issue of -- of the lack
19 of a System Impact Study addressed at the hearing on this
20 CEC application?

21 A. Yes, it was.

22 Q. And I have placed before you an exhibit, which
23 has been marked as OM-28, is that Exhibit OM-28 an
24 excerpt of a part of the transcript from the West Camp
25 Wind Farm CEC hearing?

1 A. (MR. HADLEY) That's correct.

2 Q. And that was a hearing that took place on
3 October 11th, 2022?

4 A. (MR. HADLEY) Yes, sir.

5 Q. And how -- well, let me just -- how did you
6 select these particular pages of the transcript that are
7 included here?

8 A. (MR. HADLEY) The pages we included in Exhibit
9 OM-28 directly pertain to the discussions around the
10 interconnection studies and status of the overall APS
11 review.

12 Q. Okay. And then if I could direct you -- let's
13 start with page 59 of that transcript. So this is -- is
14 it your understanding this is questioning from Mr. Acken,
15 the attorney for the applicant here?

16 A. (MR. HADLEY) Correct.

17 Q. And I -- and there's a question from Mr. Acken,
18 beginning on line 7. Do you see that?

19 A. (MR. HADLEY) I do.

20 Q. Would you please read the question and the
21 answer?

22 A. (MR. HADLEY) Certainly. The question, "And APS
23 will not enter into a large generation interconnection
24 agreement without assurance that the applicant or the
25 interconnector would address all of the necessary

1 upgrades to ensure the reliability and safety of the
2 grid; is that correct?"

3 And the answer from a Mr. Unrein is, "That's
4 correct."

5 Q. So, Mr. Hadley, would you please briefly
6 describe the -- the steps in working with a utility, such
7 as APS, to interconnect to the grid, the steps that would
8 go through -- that the applicant would go through and, in
9 fact, the steps that the applicant, Aurora Solar, in this
10 case is going through with APS?

11 A. (MR. HADLEY) Certainly. So the first step for a
12 generation project would be to submit an interconnection
13 request with the appropriate utility, in this case APS,
14 at which point the utility would then begin their review
15 process of such request through a System Impact Study.
16 So the first deliverable from the utility back to the
17 generator would be the System Impact Study, which we have
18 not yet received for our project. The System Impact
19 Study would lay out the potential impacts to the grid,
20 including that project, at which point the applicant can
21 then decide to proceed with the request if they decide
22 that the mitigation requirements or the lack thereof are
23 sufficient for the project, at which point the utility
24 would move forward in the process, and complete a
25 facility study. It's a little more granular look at the

1 grid, and the project, and its direct impact to the
2 interconnecting location.

3 At which point once the facility study is
4 received from the utility, if the developer or the
5 applicant proceeds to move forward and agrees to any
6 additional requirements from the utility, we would then
7 look to move to a large generation interconnection
8 request, or a LGIA for short, at which point we would, as
9 a company, agree to any binding request from the utility
10 before being able to ultimately construct and
11 interconnect.

12 Q. And this process, Mr. Hadley, is there any way
13 that, for example, Aurora Solar could interconnect to the
14 grid through the Cholla Substation in a way that would
15 be -- that would cause the system to be unreliable or
16 unsafe in any way?

17 A. (MR. HADLEY) Absolutely not.

18 Q. So if I could turn your attention back to
19 Exhibit OM-28, this -- this issue was discussed at the
20 hearing, and I'd like to turn your attention to page 112
21 and we've highlighted some language, beginning at
22 line 16.

23 Is that a comment from Chairman Katz?

24 A. (MR. HADLEY) Yes.

25 Q. And would you -- would you read his comment

1 there?

2 A. (MR. HADLEY) Sure. "I was going to try to avoid
3 going here, but I'm going to. Are you familiar with the
4 October 4th letter from the Arizona Corporation
5 Commission and their recommendations to this committee?"

6 Q. Okay. And that's Staff's letter commenting upon
7 the reliability and safety of the -- the application
8 here?

9 A. (MR. HADLEY) That's correct, as provided in our
10 OM-27 exhibit.

11 Q. Okay. And then, lastly, on this exhibit, I turn
12 your attention to page 114, we're going to begin at the
13 bottom. And beginning at line 25, there's a question
14 that Chairman Katz is posing, beginning with the
15 highlighted language, "What is likely to happen," would
16 you read that question and then the answer on --
17 following onto the second page or the next page there?

18 A. (MR. HADLEY) Sure. "What is likely to happen if
19 the CEC is granted, but sometime during the construction
20 of the project it is determined that there will be system
21 problems if the project is connected? Or asking it
22 another way, would you be waiting until you got clearance
23 through appropriate studies before building out this
24 project only to be told it's too late now, you spent all
25 this money, but you can't hook into our existing system?"

1 The answer from Mr. Unrein, "We would never be
2 in that situation, because we need a large generator
3 interconnection agreement with APS in order to legally
4 commence construction of our wind farm."

5 MEMBER FONTES: Chairman?

6 MR. HADLEY: Oh, Please continue.

7 CHMN STAFFORD: Member Fontes? I heard
8 somebody called Mr. Chairman.

9 MEMBER FONTES: I did not, but I do have
10 some questions, Mr. Chairman. And also on the opinions
11 of Mr. Hadley when we conclude, so thank you for
12 recognizing me.

13 CHMN STAFFORD: Okay. Thank you.

14 Please proceed.

15 BY MR. CROCKETT:

16 Q. So I think, Mr. Hadley, you were going to pick
17 up with the question and answer beginning on line 12 of
18 page 115?

19 A. (MR. HADLEY) That's correct. Thank you.

20 From Chairman Katz: "And that's really what I
21 wanted to confirm is that you're not going to be building
22 the wind farm or the transmission lines without first
23 getting that agreement approved by your company and by
24 Arizona Public Service."

25 The response from Mr. Unrein, "That's correct."

1 Q. Mr. Hadley, did the Line Siting Committee
2 approve CECs for, let me look at my notes here, CECs 1
3 and 2 for the West Camp Wind gen-tie project?

4 A. (MR. HADLEY) Yes.

5 Q. And did the Arizona Corporation Commission
6 subsequently approve those CECs in Decisions 78810 and
7 78811 on December 15th, 2022?

8 A. (MR. HADLEY) Yes.

9 Q. And those decisions by both the committee and
10 the Commission were both unanimous votes in favor?

11 A. (MR. HADLEY) Correct.

12 Q. So, Mr. Hadley, is this Case 206 an example of a
13 situation where you had both a system -- both a finding
14 by Staff of potential negative impacts, as supported by
15 the System Impact Study, and also a lack of a System
16 Impact Study altogether for a portion of the project,
17 where the CEC application was nevertheless approved by
18 the Commission?

19 A. (MR. HADLEY) That's correct.

20 Q. And, Mr. Hadley, did you have a chance to look
21 at the CEC -- the two CECs that were approved in this
22 Case 206?

23 A. (MR. HADLEY) Yes.

24 Q. Did those CECs have specific conditions in them
25 addressing the System Impact Study or Staff's finding

1 regarding the project or any -- any requirement that
2 anything additional happened with regard to the filing of
3 the System Impact Study?

4 A. (MR. HADLEY) No.

5 Q. Mr. Hadley, next, I would like to turn your
6 attention to Case 202 that you described, which is the
7 case of Atlas Solar tie line project.

8 Are you -- are you generally familiar with that
9 case?

10 A. (MR. HADLEY) Yes, I am.

11 Q. And the docket number in that case is
12 L-21187A-22-0078-00202?

13 A. (MR. HADLEY) Yes.

14 Q. And I've, again, placed before you an exhibit
15 which has been marked as OM-29.

16 Would you please identify that exhibit for the
17 record?

18 A. (MR. HADLEY) Yes, that is the letter from the
19 Arizona Corporation Commission, dated May 5th, 2022, with
20 recommendations based on the review or a subsequent data
21 request of the Atlas Solar tie line project.

22 Q. Okay. And the Atlas project -- okay. So on
23 page 2 of that letter, would you please read the
24 highlighted language?

25 A. (MR. HADLEY) Certainly. "Staff requested a

1 System Impact Study, SIS, from Atlas to fully analyze the
2 effects on the bulk transmission system that the proposed
3 project would have. To date, Staff has not received any
4 SIS from the applicant and, therefore, is not able to
5 comment on whether the proposed project improves the
6 reliability and/or safety of the operation of the grid
7 and the delivery of power in Arizona."

8 Q. And, Mr. Hadley, did the Line Siting Committee
9 approve CECs 1 and 2 for Atlas Solar on May 13th, 2022?

10 A. (MR. HADLEY) Yes.

11 Q. And were those CECs subsequently approved by the
12 Arizona Corporation Commission in Decisions 78620 and
13 78621 on July 11th, 2022?

14 A. (MR. HADLEY) Yes.

15 Q. So is this -- again, is this another example of
16 a CEC that was approved in the absence of a System Impact
17 Study?

18 A. (MR. HADLEY) That's correct.

19 Q. Were you able to look at the transcript of the
20 hearing from this one, Mr. Hadley?

21 A. (MR. HADLEY) We did not purchase this
22 transcript, no, sir.

23 Q. Okay. But in your review of the docket, did
24 you -- were you able to review the actual CECs
25 themselves?

1 A. (MR. HADLEY) Yes.

2 Q. Did you find any language in these CECs that
3 addressed the lack of a SIS or any -- or impose any
4 additional requirements related to Staff's finding or the
5 lack of a SIS?

6 A. (MR. HADLEY) No.

7 Q. And I notice in this CEC, and it appears that in
8 the other CECs we've looked at, is there a finding of
9 fact, for example, Finding of Fact 2, in the CEC for this
10 application, that states, "The project aids the state,
11 preserving a safe and reliable electric transmission
12 system"?

13 A. (MR. HADLEY) Correct.

14 Q. And did that condition also exist, to your
15 knowledge, in the West Camp CEC?

16 A. (MR. HADLEY) Yes.

17 Q. And does that, again, indicate a -- that the
18 Line Siting Committee was able to make a finding
19 of -- that the project would be safe and reliable in the
20 absence of a System Impact Study?

21 A. (MR. HADLEY) Correct.

22 Q. Okay. And then, finally, Mr. Hadley, you
23 referenced a decision or a Case Number 196, Solar Pepper
24 Power, LLC; is that correct?

25 A. (MR. HADLEY) Yes, I did.

1 MR. CROCKETT: And, Chairman Stafford, we
2 don't -- we weren't able to produce an exhibit to enter
3 into the record on this, we can -- we can perhaps provide
4 a late-filed exhibit, but I will simply talk about
5 the -- the Staff letter in this one and if we need to
6 late file a copy of the letter so the record's complete,
7 we're happy to do that.

8 Q. Mr. Hadley, did you review a copy of a letter
9 from Utilities Division Staff, dated November 23rd, 2021?

10 A. (MR. HADLEY) Yes.

11 Q. And is this a case that involved three potential
12 interconnection locations?

13 A. (MR. HADLEY) That's correct.

14 Q. And is it the case that in this application
15 there was a System Impact Study supporting two of the
16 three points of interconnection, but not for the third?

17 A. (MR. HADLEY) Correct.

18 Q. And did the Line Siting Committee approve CECs 1
19 and 2 for Solar Pepper on December 8th, 2021?

20 A. (MR. HADLEY) That's correct.

21 Q. Do these CECs also include the finding that the
22 project aids the state in preserving a safe and reliable
23 transmission system?

24 A. (MR. HADLEY) Yes.

25 Q. And were these -- were these two CECs approved

1 by the Arizona Corporation Commission in Decisions 78430
2 and 78431 on January 31, 2022?

3 A. (MR. HADLEY) Yes.

4 Q. And is this another example of a line siting
5 case where a CEC was approved where one of the points of
6 interconnection did not have a supporting System Impact
7 Study?

8 A. (MR. HADLEY) That's correct.

9 CHMN STAFFORD: Mr. Crockett, we can just take
10 official notice of that docket, you don't need to file an
11 additional exhibit for Line Siting Case 196.

12 MR. CROCKETT: Okay. Thank you, Chairman
13 Stafford.

14 And just for the record, the docket number
15 on that case is L-21165A-21-0341-00196.

16 Q. So, Mr. Hadley, to kind of sum up a couple of
17 things here, is -- is there a mechanism in place that
18 ensures that the reliability of the electric grid is
19 maintained -- is preserved and the safety is preserved
20 outside of the issuance of the CEC itself?

21 A. (MR. HADLEY) That is correct. The
22 interconnection process and the detailed studies that the
23 utilities are required to complete before entering into a
24 LGIA would suffice for that need.

25 Q. Okay. Thank you.

1 Chairman Stafford, at this time I would move the
2 admission of Exhibits OM-26, OM-27, OM-28, and OM-29.

3 CHMN STAFFORD: Exhibits OM-26 through 29
4 are admitted.

5 (Exhibits OM-26 through OM-29 were
6 admitted into evidence.)

7 MR. CROCKETT: And then, Chairman Stafford,
8 I would just like to point out a couple of other things
9 for the record that we touched upon yesterday. We talked
10 a bit about ARS 40-360.02, which has to do with the
11 filing of 10-year plans. Over the -- overnight I was
12 able to spend a little more time with that statute and I
13 wanted to highlight a couple of things.

14 First of all, subsection C is what
15 describes what needs to be included in the 10-year plan
16 and it states, "Each plan filed pursuant to subsection A
17 or B of this section shall set forth the following
18 information with respect to the proposed facilities, to
19 the extent such information is available." And I wanted
20 to highlight the language "to the extent such information
21 is available." Of course, the seventh item on that list
22 is the plans for any new facility shall include a power
23 flow and stability analysis report showing the effect on
24 the current Arizona electric transmission system.

25 So I would submit that in this case we have

1 submitted the information that was available, and that
2 it's not -- it's not a requirement of the CEC process
3 that a System Impact Study be submitted. We will
4 acknowledge that in -- in a large majority of the cases,
5 there is a System Impact Study that is -- that has been
6 submitted.

7 In this case there was not. We're going to
8 talk a little bit more, I think with the APS witness,
9 about the status of that request, and -- and the reasons
10 why it's taken some time to get there, but I wanted to
11 note that.

12 The other thing I will note for the record
13 is under that same statute, 40-360.02, subsection G, it
14 states that the plans, meaning the plans, the 10-year
15 plans that are submitted, shall be reviewed biennially by
16 the Commission and the Commission shall issue a written
17 decision regarding the adequacy of the existing and
18 planned transmission facilities in this state to meet the
19 present and future energy needs of this state in a
20 reliable manner.

21 I highlight that because I point out that
22 it is -- it is the Commission's role, specifically under
23 the statute, and not the Line Siting Committee to review
24 these 10-year plans that are submitted, and to determine
25 whether or not they -- their impact on the safety and

1 reliability of the system, I would note that as the
2 record or the evidence indicates in this proceeding,
3 there were 10-year plans submitted in 2022 and 2023 for
4 this project. There was no -- and in each of those --
5 those plans, which I've reviewed overnight, the applicant
6 indicated that an interconnection request had been
7 submitted, and that a System Impact Study was pending.
8 The Commission didn't take any action, having filed those
9 in the dockets, they didn't -- there wasn't anything
10 where they followed up on that. So, again, I -- I made
11 the arguments yesterday that I believe that
12 jurisdictionally this committee can certainly proceed
13 ahead with a vote on these two CECs in the absence of a
14 System Impact Study, and I think that, to the extent that
15 there was a concern that there was -- that this would
16 establish a precedent, I would -- I would submit that
17 there are already three cases in the last 20 months where
18 there has been -- there have been CECs issued in the
19 absence of a SIS, and certainly, with a SIS or a portion
20 of a SIS that finds that there were specifically negative
21 impacts on the safety and reliability of the grid.

22 So that's what I wanted to cover this
23 morning with Mr. Hadley. He's certainly available to
24 answer questions at this point in time.

25 MEMBER LITTLE: Mr. Chairman?

1 CHMN STAFFORD: Yes, Member Little.

2 MEMBER LITTLE: Just to clarify,
3 Mr. Crockett, those two subsections, C and G, refer to
4 the 10-year -- what needs to be in a 10-year plan,
5 correct?

6 MR. CROCKETT: That's correct.

7 MEMBER LITTLE: Not in the CEC application?

8 MR. CROCKETT: Chairman Stafford, Member
9 Little, that is correct. The contents of the CEC
10 application are set out in the Arizona Administrative
11 Code, and then also I think the statute refers to the
12 findings in 360-06 that this Line Siting Committee needs
13 to make. And to that point, as we evaluate the statutes
14 that apply here, it appears clear to us that the role and
15 responsibility of the Line Siting Committee is to look at
16 the impact of this project on the environment and the
17 focus is there, and that the focus is not on this
18 committee evaluating the -- the impact of the system on
19 the reliability or safety of the grid, that -- there's a
20 separate process that looks at those issues.

21 MEMBER LITTLE: Just -- Mr. Chairman?

22 CHMN STAFFORD: Proceed.

23 MEMBER LITTLE: Just a comment. That is
24 absolutely true as far as the responsibility with the
25 biennial transmission assessment. However, those studies

1 are generally based on 10-year plans that are in place
2 prior to the time the study begins, which is the year
3 before the -- the assessment is issued. And, hence, the
4 need for projects to actually file 10-year plans when
5 they are anticipated, as the statute requires.

6 MEMBER FONTES: Mr. Chairman, I've got some
7 items for clarification, if I may?

8 CHMN STAFFORD: Yes, Member Fontes, please
9 proceed.

10 MEMBER FONTES: Good morning.

11 The purpose indeed is to focus on the
12 environment, but in order to locate the environment, we
13 need to understand the project, the individual
14 components, and the impacts on the system. So make no
15 mistake, the System Impact Study is extremely relevant to
16 look at any environmental factors in all projects.

17 I will note, for the record, that all those
18 projects had commercial offtake that you mentioned, 206,
19 202, and 196, so there was a clear and definitive
20 commercial offtake or interconnection, in the case of the
21 Atlas system to the Ten West Link, which was a
22 transmission line that goes from Arizona to California,
23 sponsored by the CAISO. So those projects have a lot of
24 distinct attributes than your project. Your project is
25 still a part of a cluster study that's undefined.

1 So as we look at that, my first question
2 is, can Mr. Hadley tell who makes the final determination
3 of the impacts on the reliability of the system, the
4 safety of the grid, and the benefits to the state of
5 Arizona? Is that the applicant or is that indeed the
6 utility that you interconnect with, for the -- for the --
7 for the record here.

8 MR. CROCKETT: And Chairman Stafford,
9 Member Fontes, Mr. Hadley can answer the question, to the
10 best of his knowledge, I think it's probably a legal
11 answer on that, but I'll let -- I'll let Mr. Hadley
12 provide his nonlegal opinion on that.

13 MEMBER FONTES: Yeah, because he did make a
14 lot of nonlegal opinions that -- on those three items, so
15 that's why I want to clarify that. If that is indeed a
16 legal opinion, I think this committee needs a legal
17 opinion on that, not a personal opinion from the
18 applicant.

19 MR. HADLEY: Chairman Stafford, Member
20 Fontes, that is certainly not a legal opinion. And to
21 answer your question more directly, it would certainly
22 not be the applicant that would come up with that answer;
23 I would believe it would be the utility, in this case,
24 APS.

25 MEMBER FONTES: Thank you for the

1 clarification.

2 The other thing is, when does that actually
3 issue, the opinions -- the legal opinions with respect to
4 reliability, safety on the grid, and impacts? Is that at
5 the issuance of the LGIA or at the end of the System
6 Impact Study, just so we know the timing of that?

7 MR. HADLEY: Chairman Stafford, Member
8 Fontes, I would say that it is more around the System
9 Impact Study timing; however, as we pointed out with the
10 West Camp project, the results of the System Impact Study
11 are preliminary, and there are additional steps in the
12 interconnection study process.

13 For example, in the West Camp case, they
14 had negative findings without certain mitigation measures
15 required. At that point, if we were to receive similar
16 results, we would request, make any type of commitments
17 to APS that's required to continue this study, but I
18 would suggest that the result of the System Impact Study
19 are not always concurrent with the final result of the
20 connecting project.

21 MEMBER FONTES: I'd like to ask
22 Mr. Crockett when we bring the APS folks on, and I'm
23 curious on this and I don't know the answer to this, but
24 at the end of the System Impact Study, do they have a
25 view or do they have an opinion on those three items, or

1 is that at the end of the facilities study or when they
2 issue the LGIA? The timing of those three things, I
3 think, is very useful to inform, you know, our work here
4 on the committee, and so that we can make an informed
5 determination on this unique project as it relates in
6 good cause and in our discretion with respect to whether
7 we need the System Impact Study complete or not.

8 Again, this is a -- each project is unique,
9 is my theme here, and all those projects you had had a
10 different set of circumstances than this one. Appreciate
11 the background, but I'm not seeing a direct linkage to
12 this project in terms of where you're at.

13 Mr. Chairman, back to you.

14 CHMN STAFFORD: Thank you.

15 MR. CROCKETT: And, Chairman Stafford,
16 Member Fontes, just to briefly respond, there is an APS
17 witness that is here today, and APS has their legal
18 counsel and he will be presenting the witness and
19 providing, my understanding, some direct testimony and
20 then, obviously, he would be available to answer
21 questions.

22 MEMBER FONTES: Perfect. Much appreciated.

23 CHMN STAFFORD: Are there any further
24 questions from members for the current panel?

25 (No response.)

1 CHMN STAFFORD: No? All right.

2 Mr. Derstine, would you like to call your
3 witness and we can get him sworn in? Do you plan on
4 offering direct testimony to begin or would you like just
5 to have the committee start peppering with questions?

6 MR. DERSTINE: Mr. Chairman, committee
7 members, my --

8 CHMN STAFFORD: Can you move your mic
9 closer to your mouth, please.

10 MR. DERSTINE: Yeah, let me pull it up.
11 Can you hear me now?

12 CHMN STAFFORD: Yes.

13 MR. DERSTINE: Does it work?

14 What I propose to do, and what we
15 anticipated doing, was to provide some basic direct
16 testimony through Mr. Spitzkoff, and on what I understand
17 and have kind of heard this through Mr. Crockett by way
18 of what transpired yesterday in the committee hearing,
19 that the committee had some questions about the
20 interconnection process, the time it's taken for this
21 applicant, Aurora Solar, to receive the System Impact
22 Study for this particular project. And then potentially
23 some questions around how the reliability of an
24 interconnection is insured through the interconnection
25 process. So my plan was to cover those through

1 Mr. Spitzkoff, and then make him available for questions,
2 if that's acceptable.

3 CHMN STAFFORD: Yes, that is acceptable.

4 MR. DERSTINE: Mr. Spitzkoff's available to
5 be sworn.

6 CHMN STAFFORD: All right. Mr. Spitzkoff,
7 would you prefer an oath or affirmation?

8 MR. SPITZKOFF: An affirmation.

9 (Jason Spitzkoff was duly sworn by
10 Chairman Stafford.)

11 CHMN STAFFORD: Please proceed,
12 Mr. Derstine.

13 MR. DERSTINE: Thank you, Mr. Chairman.

14
15 JASON SPITZKOFF,
16 called as a witness on behalf of APS, having been
17 previously affirmed or sworn by the Certified Reporter to
18 speak the whole truth and nothing but the truth, was
19 examined and testified as follows:

20

21 D I R E C T E X A M I N A T I O N

22 BY MR. DERSTINE:

23 Q. Mr. Spitzkoff, why don't you state your name and
24 your address for the record, please.

25 A. (MR. SPITZKOFF) My name is Jason Spitzkoff,

1 S-p-i-t-z-k-o-f-f. My work address is 2121 West Cheryl
2 Drive, Phoenix, Arizona 85021.

3 Q. Mr. Spitzkoff, you are manager of transmission
4 engineering and other matters relating to transmission
5 planning, why don't you start by identifying the -- your
6 position and explain -- give the committee an
7 understanding of what you do in that role and your
8 experience.

9 A. (MR. SPITZKOFF) Certainly. So my current role,
10 I'm manager of three departments at APS, transmission
11 planning and engineering is one; transmission contracts
12 and services is a second; and transmission and facility
13 siting is a third group.

14 All of those deal with various portions of
15 generator interconnection projects, among other
16 responsibilities, such as all long-term system
17 reliability studies that are performed. My experience,
18 I've been with APS for 22 years. I started at APS
19 basically out of -- out of college. After I graduated
20 with an electrical engineering and economics degree from
21 Rutgers University, I started as a transmission planning
22 engineer I, and progressed to engineer II, III, senior,
23 supervisor of transmission planning and engineering, and
24 now my current role as manager.

25 Q. In your position, and with that experience, do

1 you have personal knowledge of APS's large generator
2 interconnection process, as well as this particular
3 application for an interconnection?

4 A. (MR. SPITZKOFF) I do. So I -- for many years
5 while I was a frontline engineer, I performed many
6 interconnection studies. That was back when our
7 interconnection queue was a lot smaller and we had a lot
8 fewer interconnection requests, and we were performing
9 those studies wholly in-house.

10 Then when we started utilizing outside
11 consultants to help APS with the actual performance of
12 the power flow studies, I oversaw the consultants
13 performing that work, and then as supervisor, again, you
14 know, just oversaw the process as a whole, and still as a
15 manager managing the team responsible for the technical
16 studies, and then also the transmission contracts and
17 services team, which is the one -- the team responsible
18 for administering the process, and ultimately, crafting
19 and signing the interconnection agreements themselves.

20 Q. All right. Thank you. We're going to get into,
21 and I know the committee had questions about the timing
22 or the timeline for this interconnection request for the
23 Obed Meadow gen-tie project, but before we do that, let
24 me have you step back and kind of cover, in general, the
25 interconnection process and what governs the

1 interconnection process for an application, such as the
2 Obed Meadow gen-tie project.

3 A. (MR. SPITZKOFF) Certainly. So the
4 interconnection process is mandated by FERC open access
5 rules, and it was established as part of FERC Order 2003.
6 And it established what is known as Appendix O in APS's
7 open access transmission tariff, and that is all of
8 the -- that's the large generator interconnection
9 process, and that spells out all of the rules that
10 utilities and applicants have to follow in an
11 interconnection process.

12 I apologize, was there more to your question?

13 Q. Well, that -- so I think you've identified what
14 governs the process, why don't you take us through the
15 process; there's a submittal of an interconnection
16 request, why don't you take us forward from that point?

17 A. (MR. SPITZKOFF) Certainly. So the first step is
18 an applicant would request interconnection through an
19 application, and that also requires a deposit to be
20 submitted with that application. APS operates a cluster
21 study process, so we have two six-month windows in which
22 we gather all interconnection requests into a single
23 cluster. And our windows are from April 1st to
24 September 30th, and then October 1st to March 31st.

25 So, for instance, any application that comes in

1 between April 1st and September 30th, in any given year,
2 no matter if it comes in April 2nd or September 29th,
3 they all are within the same cluster grouping. So we get
4 the application, we get the deposits, once they're deemed
5 a valid application, a project is assigned a queue
6 number. We -- then when the window closes and we know
7 all of the projects that are in that cluster, we start
8 holding scoping meetings with each of the applicants, and
9 that scoping meeting makes sure that APS and the
10 applicant are clear on the requests, the point of
11 interconnection, the details, et cetera. We provide what
12 information we know about the system at that time, just
13 at that point of interconnection, with just, you know,
14 just general -- general knowledge. And then we provide
15 an estimated date on when we will start their
16 interconnection study work itself.

17 And then, you know, then we perform first the
18 System Impact Study. That System Impact Study consists
19 of power flow and stability analysis, and that analysis
20 identifies the impacts that adding all of the projects
21 into that -- that are in that cluster onto the grid, what
22 it would have to the reliability of the system. And
23 any -- if there are any reliability violations, then we
24 have to identify what is required to mitigate whatever
25 violations are identified.

1 As part of the interconnection process, the FERC
2 rules, a utility cannot turn an application away. We
3 cannot just say no, we don't want you to interconnect,
4 you can't interconnect. We have to process all
5 interconnections, and if there are reliability impacts,
6 we do get to identify what those impacts are, and that's
7 a condition of achieving actual interconnection, I'm
8 sorry, the -- the mitigation of those impacts, so
9 what -- the network upgrades that are identified are a
10 condition of receiving what will ultimately be an
11 interconnection application. So while we can't turn
12 interconnection requests away, you know, we -- we are
13 required to identify and make sure all projects can
14 interconnect without a negative impact on the reliability
15 of the system.

16 Q. Let me stop you there for a second. Wouldn't it
17 be more efficient or better to analyze each
18 interconnection request on its own merit rather than
19 analyzing them as a cluster? Why do you -- why are they
20 analyzed as a cluster?

21 A. (MR. SPITZKOFF) Certainly. So when the LGIP was
22 first enacted after FERC Order 2003, APS did perform
23 what's known as serial interconnection studies, so you
24 get one application, two applications, three
25 applications, you study the first project, then when

1 that's done you study the second project, then when
2 that's done you study the third.

3 The interconnection studies take quite a long
4 time, even if you're studying one interconnection
5 customer, where it takes quite a long time to finish that
6 first one, and then you get to the second one, which
7 takes a while, and then you get to the third one. So the
8 idea is clustering projects together is a more efficient
9 way of studying groupings of projects, and it also allows
10 for if multiple projects have the same impacts and need
11 the same reliability upgrades, then they are assigned a
12 share, a proportional share of the cost of implementing
13 those impacts.

14 Q. Okay. So you identified two deliverables that
15 happen through the process, one is the System Impact
16 Study, which is part of the focus and the attention of
17 the committee here today; the second item was the
18 facilities study, what's the difference between the two?

19 A. (MR. SPITZKOFF) Sure. So the facility study is
20 a deeper dive into the costs and time estimates for the
21 identified upgrades that are required. So the System
22 Impact Study identifies what those upgrades are, it does
23 also provide an estimate -- cost and time estimate for
24 completing those, but when -- when a project continues to
25 move to the next step, which is the facilities study,

1 that doesn't consist of reliability studies anymore,
2 those are completed in the System Impact Study. What the
3 facility study is is a deeper dive into the cost and
4 timing of completing each of those network upgrades, so
5 it's a better estimate at that -- at that stage.

6 Q. Now, is this --

7 MEMBER GOLD: Chairman?

8 CHMN STAFFORD: Member Gold.

9 MEMBER GOLD: I'm trying to understand a
10 word. You said a deeper dive into the cost and what --

11 MR. SPITZKOFF: Time estimates.

12 MEMBER GOLD: Gotcha. Thank you.

13 CHMN STAFFORD: Yeah, can you get closer to
14 the microphone, Mr. Spitzkoff, please?

15 Okay. Thank you.

16 MEMBER LITTLE: As long as we're paused,
17 Mr. Chairman.

18 CHMN STAFFORD: Yes, Member Little.

19 MEMBER LITTLE: So let me just clarify,
20 Mr. Spitzkoff, every application for interconnection,
21 every project is included in the cluster?

22 MR. SPITZKOFF: Every project is included
23 in a cluster that shares the same window.

24 MEMBER LITTLE: Right. No, I understand
25 that, but --

1 MR. SPITZKOFF: Yes.

2 MEMBER LITTLE: So we can be assured, we
3 the committee, can be assured that if a project is
4 included in a cluster, and we get the System Impact Study
5 that says that there are no negative impacts, we can be
6 assured that that project is included in the cluster if
7 it is said it is?

8 In other words, you don't decrease the
9 amount, if you have a total of 500 megawatts or a
10 thousand megawatts in your cluster that apply, you don't
11 analyze 800 megawatts, assuming that some won't get
12 built?

13 MR. SPITZKOFF: Correct. We study every
14 project.

15 MEMBER LITTLE: Thank you.

16 MR. SPITZKOFF: Now, there are, within the
17 studies there might be points that are identified leading
18 up to the total amount. As you do a study, you find
19 different, like, at 800 megawatts, there are no issues,
20 but when we go up to the thousand megawatts, if that's,
21 you know, the number, here -- here are the issues.
22 That's not always the case, you know, but sometimes, you
23 know, some natural system results fall out that are
24 reported out.

25 MEMBER LITTLE: And if that is the case,

1 are the -- is the cost -- this is just for my own
2 information -- if that is the case is the cost of those
3 mitigation measures split amongst everybody or only paid
4 for by the incremental project?

5 MR. SPITZKOFF: They're split among
6 everybody who has an impact or a need for that identified
7 upgrade.

8 MEMBER LITTLE: Okay.

9 MR. SPITZKOFF: So everyone within the same
10 cluster has the same point in time of review, so there's
11 no hierarchy.

12 MEMBER LITTLE: Thank you. Thank you.

13 CHMN STAFFORD: So quick question on that.
14 So in the scenario you're talking about, say there's a
15 thousand megawatts in the cluster, but then the first 600
16 megawatts can come on without any mitigation required,
17 the last 400 requires upgrades, how -- how do you account
18 for that?

19 MR. SPITZKOFF: Certainly. So all of the
20 projects would be assigned a cost responsibility for the
21 upgrades. And if the projects are on a different
22 development timeline, some, you know, might go into
23 construction early, you know, because they have oftakers
24 earlier, we will go and identify, okay, if just this
25 amount comes online, what are the impacts? Do we need

1 these network upgrades or not? If the answer's no, we
2 won't just launch into the building of those network
3 upgrades, but that doesn't mean that project is off the
4 hook for those, because if the other projects that were
5 in its cluster do develop, and we cross that threshold
6 where we need those network upgrades, now everyone who
7 was assigned costs for those network upgrades is required
8 to pay whatever their share was.

9 CHMN STAFFORD: So the entire thousand
10 megawatts would share the cost, then?

11 MR. SPITZKOFF: Yes. I'll put one minor
12 caveat on it. Some upgrades -- so you -- you determine
13 the proportional impact of each project on each network
14 upgrade, so -- so there might be some projects that
15 actually have no impact on a singular particular upgrade
16 within a cluster, and they wouldn't necessarily share
17 that cost. So a little caveat on -- on that statement.

18 CHMN STAFFORD: So is it the cost is
19 allocated, like, in a pro rata basis --

20 MR. SPITZKOFF: Yes.

21 CHMN STAFFORD: -- of a cost causation, I'm
22 assuming?

23 MR. SPITZKOFF: Yes, basically that's it.

24 CHMN STAFFORD: All right. Thank you.

25 Please proceed.

1 MEMBER FONTES: Mr. Chairman, can I ask for
2 an item of clarification here?

3 CHMN STAFFORD: Yes, Member Fontes.

4 MEMBER FONTES: Thank you very much,
5 Mr. Spitzkoff. Very useful to understand the approach of
6 APS and the interconnect. With respect to the output of
7 the System Impact Study is where you identify the
8 mitigants, what an individual project would have to do,
9 could that determine the placement of both structures or
10 how they're going to interconnect with conductor onto a
11 specific busbar or additional physical attributes that
12 that individual project's going to have to put in when
13 the cluster's complete?

14 I know I'm starting to get into the line
15 where we end the System Impact Study and the facility
16 study. What we're trying to do here is to gauge whether
17 the System Impact Study is necessary for our CEC
18 approval, so if you could characterize my -- your answer
19 in light of that, it would be most appreciated.

20 MR. SPITZKOFF: Certainly. I'll do my
21 best. A System Impact Study will not address pole
22 placement. That -- that is a much more detailed
23 engineering point in time. It will identify at the
24 substation the -- the bay -- if there's a bay available,
25 the bay that it will connect into, or if an expansion of

1 the substation itself is needed, it will address that.

2 MEMBER FONTES: Would it -- would it adjust
3 the route per se?

4 MR. SPITZKOFF: It will not.

5 MEMBER FONTES: Okay. So as you're
6 completing the System Impact Study, the only thing we
7 have to go on is where the actual point -- POI is, right?

8 MR. SPITZKOFF: Yeah, so the POI may play
9 into what you feel is the best route. For instance, if
10 you're coming into a substation, if your point of
11 interconnection is on the west side of a substation, as
12 opposed to an east side of a substation and there are
13 geographical factors that are outside the switchyard, you
14 know, knowing that your point of interconnection is on
15 the west side, you know, that's a consideration you would
16 take into account when designing what your final route is
17 to approach the switchyard.

18 MEMBER FONTES: So there -- it could change
19 from what the applicant proposes to what they get as the
20 output of the System Impact Study?

21 MR. SPITZKOFF: I would say what I've come
22 across in the past is if the CEC is being heard without a
23 specific location identified within the switchyard,
24 there's generally the -- the approach to the switchyard
25 provides enough latitude to allow for multiple ways to

1 approach the yard. And this case has, you know, I don't
2 remember the amount of acres, but, you know, it had
3 a -- you know, it basically covered the APS-owned land,
4 so as you get closer to the switchyard, you could, you
5 know, it might be more practical to swing a little to the
6 east or a little to the west.

7 MEMBER FONTES: Given the -- are you
8 familiar with the project and the proximity to the SRP
9 500-kV and the other lines there?

10 MR. SPITZKOFF: Yes.

11 MEMBER FONTES: Okay. Given that, is that
12 a SRP line or is that a Bureau of Reclamation 500-kV
13 operated by SRP, do you know that?

14 MR. SPITZKOFF: To the best of my
15 knowledge, it's a SRP line.

16 MEMBER FONTES: Okay. Could that make a
17 determination of the adjustment of that due to the
18 proximity of those lines?

19 MR. SPITZKOFF: So all of the existing
20 lines do play into, you know, your determination of what
21 the best route into the actual switchyard is.

22 MEMBER FONTES: Both horizontally and
23 vertically, both height and width?

24 MR. SPITZKOFF: Yes.

25 MEMBER FONTES: Okay. So as we look at the

1 System Impact Study, the output of that is going to have
2 some degree of variance, but not material variance where
3 it would go outside; is that --

4 MR. SPITZKOFF: Yeah, I would --

5 MEMBER FONTES: -- a fair statement?

6 MR. SPITZKOFF: I would say that's a fair
7 statement.

8 MEMBER FONTES: Thank you.

9 Mr. Chairman, nothing else.

10 CHMN STAFFORD: Please proceed.

11 BY MR. DERSTINE:

12 Q. Mr. Spitzkoff you've given the committee kind of
13 a broad outline of the large generator interconnection
14 process, is this -- are these APS's own rules and process
15 or am I correct in understanding that what you have
16 outlined is dictated by the large generator
17 interconnection procedures adopted and promulgated by the
18 Federal Energy Regulatory Commission?

19 A. (MR. SPITZKOFF) Yes, they're -- largely follow
20 the FERC proforma. APS over the 20 years has filed a
21 couple of deviations, our -- our application deposits are
22 a little bit different than what the original proforma
23 was. And even when you establish your cluster windows,
24 in order to do that, you have to make a filing of FERC to
25 establish the length and the actual timing.

1 Q. So you have to -- APS would have to or did make
2 a filing at FERC for approval of anything that varies
3 from the standard LGIP, but in, overall, it follows the
4 standard procedures?

5 A. (MR. SPITZKOFF) Correct.

6 Q. Okay.

7 MEMBER LITTLE: Mr. Chairman?

8 CHMN STAFFORD: Yes, Member Little.

9 MEMBER LITTLE: I do have one more
10 question, Mr. Spitzkoff. If -- if a window ends the end
11 of September, the last day of September, what is
12 generally the timing? I know these studies don't happen
13 overnight, I've done enough of them, what is the timing
14 before the results of the studies can be given to the
15 applicants?

16 MR. SPITZKOFF: Certainly. And I think we
17 were going to get into a little bit of that.

18 MEMBER LITTLE: Okay. That's fine.

19 BY MR. DERSTINE:

20 Q. Well, if you would like to cover that now in
21 response to Member Little's question, go ahead.

22 A. (MR. SPITZKOFF) Sure. But I think, in leading
23 up to that, you know, just providing an overview of the
24 APS cluster or our existing queue, the magnitude. So
25 right now we have 198 active interconnection requests

1 into the APS system. And that totals 75,127 megawatts.
2 So that's a large number of megawatts. APS's system, we
3 just this -- earlier this year, a few weeks ago, we hit a
4 new system peak, so for reference our system peak is just
5 over 8,000 megawatts. And as I just mentioned, the
6 number of requests in our generator interconnection queue
7 is 75,000 megawatts.

8 CHMN STAFFORD: Excuse me, but what did you
9 say your peak load was?

10 MR. SPITZKOFF: It's just over 8,000.

11 CHMN STAFFORD: Okay.

12 MR. SPITZKOFF: So, generally, if you look
13 across the country, from a non-RTO or ISO perspective,
14 for a vertically integrated utility, APS has one of the
15 largest interconnection queues in the country. And, as a
16 matter of fact, we may be at the top when you look at it
17 on a -- on a per megawatt interconnection request to load
18 ratio.

19 CHMN STAFFORD: Yes, Member Drago.

20 MEMBER DRAGO: Yeah. If you could help
21 baseline me before we go further, what you just
22 described, how many clusters does that come up to?

23 MR. SPITZKOFF: Great -- great question.
24 And I don't have the answer to how many clusters that --
25 that is.

1 MEMBER DRAGO: Okay.

2 MR. SPITZKOFF: If you give me one second,
3 so right now we are studying, 2022, I'd say we probably
4 have between six and seven clusters not actively -- we
5 only actively have one in study, but you know, there will
6 be five clusters waiting, you know, waiting in line now.

7 MEMBER DRAGO: Okay. And then my follow-up
8 to that is when you're talking about the cluster you did
9 earlier, is that just for the Cholla Substation?

10 MR. SPITZKOFF: So within our cluster
11 windows, we subgroup those projects into geographical and
12 electrical relevant areas. So the cluster for
13 interconnections in the Cholla cover all requests between
14 the Four Corners Substation, and anything into the lines
15 into Cholla, and anything into the lines all the way down
16 to Pinnacle Peak.

17 MEMBER DRAGO: Thank you.

18 MR. SPITZKOFF: So we have additional
19 clusters for other parts of our system that are
20 sub-broken out.

21 MEMBER DRAGO: Good. Thank you.

22 MEMBER LITTLE: Mr. Chairman?

23 MEMBER FONTES: Mr. Chairman?

24 CHMN STAFFORD: I have a quick -- I have a
25 quick question first and then I'll -- then we'll go with

1 Member Little and then Member Fontes.

2 So approx- -- when you set these clusters
3 up, are they based on total megawatts, are they based on
4 number of projects? Do you consider where the projects
5 are along the development when you create these clusters?
6 Can you provide me a little more clarity on that, please?

7 MR. SPITZKOFF: Certainly. So the
8 cluster's established purely on the date we receive an
9 interconnection request. So if we receive a request
10 within that window, they're in the cluster. The new
11 process, we'll have a little bit of discussion, there's a
12 new process being proposed with the new FERC order that
13 changes that a little bit.

14 CHMN STAFFORD: That's a comment period
15 right now for the rulemaking, isn't it?

16 MR. DERSTINE: That's correct.

17 CHMN STAFFORD: Okay. Go ahead.

18 MR. SPITZKOFF: Was there additional parts,
19 I'm sorry?

20 CHMN STAFFORD: Yeah, so for the clusters,
21 so right now you said it's based on timing of when they
22 file the interconnection request?

23 MR. SPITZKOFF: Yup.

24 CHMN STAFFORD: And you say that may change
25 in the future based on the pending FERC rulemaking. So

1 it's based -- you look at the -- in time and how is the
2 cutoff determined? Is it a megawatt limit or is it just
3 a certain number of individual projects? How do you
4 calculate -- what goes into the size of the cluster?

5 MR. SPITZKOFF: The number of requests that
6 we get within that window.

7 CHMN STAFFORD: Oh, there's a window?

8 MR. SPITZKOFF: There's no limit on how
9 many requests that we cut off or the megawatt size.
10 We're obli- -- as I said earlier, we cannot turn away a
11 valid interconnection request and not study it, or study
12 it in a different order. Right now we are operating
13 under a first-come, first-served process.

14 CHMN STAFFORD: Okay. So -- but that --
15 the 75 gigawatts, is that what you said was in the queue?

16 MR. SPITZKOFF: Yes.

17 CHMN STAFFORD: Okay. So what's -- what's
18 the current -- what's the current cluster you're
19 studying, what's the size in, like, megawatts or
20 gigawatts of -- of generation that's in that?

21 MR. SPITZKOFF: Sure. I don't know the
22 answer of the size in the full cluster. I do know in the
23 one we're studying for the Cholla relevant area, it's
24 2,000 megawatts.

25 CHMN STAFFORD: Okay.

1 MR. SPITZKOFF: But we have clusters going
2 on in other parts of the system that have 2,000, 4,000,
3 megawatts in those also.

4 CHMN STAFFORD: Okay. So just kind of bear
5 with me, please. So the Cholla, there used to be four
6 units operating there, it's down to two. So the closure
7 of two of those freed up, I'm going to get -- I'm going
8 to just, roughing it, like say -- because you said it's
9 roughly a thousand megawatt plant at full capacity, half
10 of it's gone, so it's roughly 500 megawatts of capacity
11 there with approximately 500 more megawatts to go in 2025
12 when the remaining units are retired, and you're trying
13 to look at 2,000 megawatts connecting in that same point,
14 correct?

15 MR. SPITZKOFF: Correct. That's in the
16 current cluster. We did have, you know, we have had
17 prior clusters, for instance the cluster prior to the one
18 we're currently studying was 4,000 megawatts.

19 CHMN STAFFORD: Okay. Now which -- now, is
20 the Aurora project is that in the current or prior
21 cluster?

22 MR. SPITZKOFF: That's in the current.

23 CHMN STAFFORD: Okay. Member Little, you
24 had some questions?

25 MEMBER LITTLE: Yes, my question is just

1 kind of technical, how do you split that 2,000 megawatts,
2 for example, amongst the buses when you're actually doing
3 the study? Do you just split it up? Do you just lump it
4 and inject it where?

5 MR. SPITZKOFF: Yeah, the location of where
6 they're interconnecting is per the application.

7 MEMBER LITTLE: Oh, okay.

8 MR. SPITZKOFF: So -- so we can provide
9 some guidance to an applicant on what they might be
10 facing at a particular bus, but if that's where the
11 applicant wants to interconnect, that's where we have to
12 study it.

13 MEMBER LITTLE: Wonderful. Thank you.

14 CHMN STAFFORD: Member Fontes?

15 MEMBER FONTES: Thank you, Mr. Chairman.

16 Can you hear me? I was muted by the host.

17 CHMN STAFFORD: We can hear you.

18 MEMBER FONTES: Question 1, what's the
19 forecasted completion date of this current cluster that
20 is at Cholla or do you have one?

21 MR. SPITZKOFF: Currently it's expected
22 October 1st.

23 MEMBER FONTES: Of this year?

24 MR. SPITZKOFF: Yes, of 2023.

25 MEMBER FONTES: Oh, that's very informative

1 for this committee. So not too far off in the distant
2 future. Second question, what's the future IRP demand?
3 I know 8,000 megawatts is pretty impressive for a system
4 peak load, but do you know off the top of your head what
5 the future is looking in that IRP?

6 MR. SPITZKOFF: I -- I don't have those
7 numbers on the top of my head.

8 MEMBER FONTES: Incremental, it's not going
9 to be --

10 MR. SPITZKOFF: No, it's a couple of
11 thousand megawatts over -- I mean, it depends on what
12 time horizon you look at, but over the next 10 to
13 15 years --

14 MEMBER FONTES: Correct.

15 MR. SPITZKOFF: -- it's a couple of
16 thousand megawatts.

17 MEMBER FONTES: Planning for growth. Okay.

18 And then at the Cholla Substation,
19 that's -- that's a subcluster study, and you said there's
20 2,000 megawatts in the current, and then there was
21 previously how many, 5,000.

22 MR. SPITZKOFF: 4,000.

23 MEMBER FONTES: 4,000. Were there any
24 previous interconnect requests in past years that we
25 should know about? So that's 6,000 total at that same

1 point.

2 MR. SPITZKOFF: I -- I would say there
3 probably were. I did not go back and look that far. And
4 if this would have been seven years ago, I could have
5 told you every interconnection we had in our system, but
6 when we're --

7 MEMBER FONTES: You were closer to the
8 problem.

9 MR. SPITZKOFF: I was closer and we also --
10 we did not have 198 active requests, so I can't -- I
11 can't quite do that anymore.

12 MEMBER FONTES: Have any of those, and
13 where I'm going with this, have any of them had facility
14 studies in terms -- and offtake contracts, to the best of
15 your knowledge, and going forward?

16 MR. SPITZKOFF: So I know the ones in the
17 previous cluster, to my knowledge, I believe one of those
18 four projects has an offtaker. And they, all four of
19 them, are in facility study and are nearing completion of
20 their facility study.

21 MEMBER FONTES: So it's safe to assume that
22 these projects are going to be constructing in advance of
23 any outcome from this committee, and this -- for this
24 project, so long as they've got the offtake and they go
25 to construction?

1 MR. SPITZKOFF: I'm --

2 MEMBER FONTES: So those previous clusters,
3 right, they're in facility studies and one of them has
4 offtake?

5 MR. SPITZKOFF: Yes.

6 MEMBER FONTES: So it's safe to assume that
7 the one who has the offtake is probably going to go to
8 construction?

9 MR. SPITZKOFF: Yes.

10 MEMBER FONTES: And take up some of the
11 real estate inside of the substation?

12 MR. SPITZKOFF: Yes.

13 MEMBER FONTES: And the other ones that are
14 facility studies are probably closer to getting offtake,
15 in terms of development?

16 MR. SPITZKOFF: Yeah, I need to correct
17 myself. The one that we were talking about with the
18 offtaker is not connecting directly into Cholla, it's
19 connecting into the 345-kV lines that are leaving Cholla
20 to the south. So it's not taking up an interconnection
21 bay at Cholla itself. But it will take up, you know,
22 capacity with it being online in the system.

23 MEMBER FONTES: So, again, we're trying to
24 focus on as -- as this evolves through a System Impact
25 Study, it may change a system impact facility placement

1 and impact the environment, as the purpose of our
2 committee here, so those other projects are going to go
3 in first, will those projects placements and facility
4 studies be part of the outcome of this System Impact
5 Study for this project?

6 MR. SPITZKOFF: Yeah, so this System Impact
7 Study takes into account all prior interconnection
8 requests that are still valid and in the process. So
9 this current cluster study that we are performing for the
10 2,000 megawatts still has the assumption in that study of
11 the 4,000 megawatts that were ahead of it and studied in
12 the prior cluster.

13 MEMBER FONTES: Okay. So you'll have a
14 better view of that at the end of the System Impact Study
15 as it relates to this project; is that correct?

16 MR. SPITZKOFF: That is correct.

17 CHMN STAFFORD: I have a quick follow-up
18 question there. So you're saying 4,000 for the prior
19 study, that's when you look -- when you look at the
20 current cluster study of 2,000 megawatts, does that --
21 does the current cluster study assume that 4,000
22 megawatts will be built?

23 MR. SPITZKOFF: Yes, it does. We do
24 sensitivities. So the main study looks at the 4,000
25 megawatts is built. In this study, we are doing a

1 sensitivity if some or all of the previous 4,000 is not
2 built, just so we have that information, because one of
3 the factors is that 4,000 megawatt cluster that was --
4 that was ahead, there were approximately \$2 billion of
5 network upgrades identified to reliably interconnect
6 4,000 megawatts, as you can imagine. So in that
7 instance, maybe not all of those will go forth, you know,
8 to -- to spend that \$2 billion.

9 CHMN STAFFORD: So do you do -- so on the
10 current cluster, do you have some kind of contingency --
11 several different contingencies, assuming, like, the 4 --
12 I guess the main one is starting at the 4,000 gets built,
13 the second -- and that's between four projects, right,
14 you said?

15 MR. SPITZKOFF: Yes.

16 CHMN STAFFORD: And one of them has an
17 offtaker, so if one assumes that will be built, the other
18 three will not, and then there's -- do you have other
19 ones like two of them get built, three of them get built,
20 you can break it down that way to see what the impacts
21 would be to the new cluster?

22 MR. SPITZKOFF: I -- we don't go that far,
23 because the number of scenarios would just get out of
24 hand. Because we also do different scenarios on where
25 the output is being dispatched to. We do a scenario that

1 the output's going to California. We have scenarios of
2 staying in Arizona. Sometimes it's -- we have scenarios
3 it's going to the east. So you add those on top of the
4 other sensitivities, we get into a pretty large matrix of
5 how many studies that we're performing, so, you know, if
6 we go to, you know, if one, two, three or all four are
7 built, and you add those on top, it starts getting a
8 little bit -- a little bit out of hand.

9 CHMN STAFFORD: Okay. So basically you
10 look all or the one that's got the oftaker?

11 MR. SPITZKOFF: Yes. And there is a
12 mechanism, if one of those earlier projects does drop
13 out, and it wasn't a sensitivity that we studied and we
14 already have the answer to, then we do -- we have to do a
15 restudy to see what the effects are for any -- for all of
16 the projects that were behind them.

17 CHMN STAFFORD: Right. Okay. So -- so I
18 guess if all four projects for that 4,000 megawatts
19 dropped out, that would significantly impact the current
20 cluster, then?

21 MR. SPITZKOFF: It certainly would, yes.

22 CHMN STAFFORD: And, to your knowledge, at
23 this point have any of those applicants in the prior
24 cluster dropped out? They're all still actively pursuing
25 interconnection?

1 MR. SPITZKOFF: Yes, they're all still
2 actively pursuing interconnection.

3 CHMN STAFFORD: Okay. Now, in your past
4 experience, what -- do you have an average percentage of
5 what projects drop out after the System Impact Study, but
6 before a facility study is -- is instituted?

7 MR. SPITZKOFF: Of that particular point, I
8 do not. But, overall, we used to track just how many get
9 to commercial operation, and it was approximately about 6
10 percent of the number of requests. That number has
11 increased significantly in the last couple of years,
12 I -- I -- I hesitate to say, but I think we're about 20
13 to 25 percent of interconnection requests that do get an
14 interconnection agreement.

15 Now, we do have a lot of projects that have
16 an interconnection agreement and have not yet
17 constructed, so we'll wait to see if they actually get to
18 commercial operation, but -- but there are a lot more
19 projects now are getting all the way to the agreement
20 stage and getting an interconnection agreement than there
21 were just a number of years ago.

22 CHMN STAFFORD: Okay. All right. Thank
23 you.

24 Member Fontes, did you have more questions?
25 Sorry to interrupt you there.

1 MEMBER FONTES: I did.

2 Can you -- for clarification here, when do
3 you determine a project's impact on systems reliability,
4 grid safety, and overall benefit to Arizona, in terms of
5 capacity, resource, adequacy, those sorts of things? At
6 the end of the System Impact Study or when you sign the
7 LGIA or what point is the professional opinion, you know,
8 rendered, if you will?

9 MR. SPITZKOFF: The System Impact Study --
10 the end of the System Impact Study is when all impacts
11 are known and network upgrades are identified that says
12 this is what's needed to reliably interconnect the
13 projects that were studied in this cluster. There are --

14 MEMBER FONTES: So at that -- go ahead.

15 MR. SPITZKOFF: Sorry. There are
16 mechanisms, if -- if the assumptions that were studied
17 end up changing, as we were talking before, if some of
18 the earlier projects drop out and, you know, exit the
19 interconnection process, there are mechanisms to restudy
20 projects and do a restudy of System Impact Study, but
21 the -- the normal timeline is the System Impact Study is
22 the determination.

23 MEMBER FONTES: Okay. So at the end of the
24 System Impact Study, we'll have a good idea of how that
25 project is going to operate on the system in terms of

1 reliability, any potential impacts for safety, and then
2 how it's going to benefit the overall resource adequacy,
3 I'll call it, with respect to providing benefits to the
4 power system?

5 MR. SPITZKOFF: Yes. We would from the
6 safety and reliability aspect. I'm not sure the -- when
7 you ask about the benefits to resource adequacy, that's
8 a --

9 MEMBER FONTES: Yeah, I know, I'm using an
10 inappropriate term here. But, I guess, the overall
11 addition to the load --

12 MR. SPITZKOFF: Yes.

13 MEMBER FONTES: -- to keep it more generic.

14 MR. SPITZKOFF: Yes.

15 MEMBER FONTES: Thank you, Mr. Chairman.

16 CHMN STAFFORD: All right. I'm looking at
17 the court reporter. Are you in need of a break or could
18 we go for another -- break now?

19 THE REPORTER: We can go --

20 MEMBER LITTLE: Break.

21 THE REPORTER: Unless you want a break.

22 CHMN STAFFORD: Yes. Yeah, I'm hearing
23 indications that a break is needed. So let's take a
24 10-minute recess and come back at 10:44. Make it 10:45.

25 We stand in recess.

1 (Recessed from 10:34 a.m. until 10:53 a.m.)

2 CHMN STAFFORD: Let's go back on the
3 record.

4 Members, have you finished asking
5 questions? Were we ready for Mr. Derstine to continue
6 with his direct?

7 MEMBER LITTLE: Mr. Chairman?

8 CHMN STAFFORD: Yes, Member Little.

9 MEMBER LITTLE: I still would like to know
10 the answer to the question of how long it takes to do the
11 studies after the end -- the close of a cluster period.

12 MR. SPITZKOFF: Certainly. So that varies,
13 actually, unfortunately. There's no -- there's no clean
14 answer, because one of the issues, if we look at this
15 cluster as an example, the interconnection request was
16 made in 2020, in March, I think it was March 26, 2020, so
17 it was in the cluster window that closed March 31st of
18 2020. Those studies didn't even start until the studies
19 of the projects prior to them were completed. And I
20 don't have that -- that exact date on when it started,
21 but I know a couple of years ago we did an estimate.
22 When we actually start the studies, you know, there's a
23 range -- sorry -- there's a range on how long studies
24 will start, depending upon the number of requests within
25 the cluster, the amount of megawatts, the location on our

1 system. The location's important because some areas are
2 more congested than others, and we also have a lot of
3 joint-owned projects. So projects with multiple owners
4 in them, and -- and in that process, we have to get the
5 review and agreeance of all of the joint owners, so that
6 adds a little bit of time to some of the studies.

7 So circling back to the -- to the actual
8 answer, the actual study time range, I'd say, is between
9 120 to 200 days, in that area. There have been -- have
10 there been outliers? Yes, there have been, because, as I
11 said, if you got some network issues that are extremely
12 complex, it could take a lot of iterations to find what
13 the upgrade is, and then even to get the buy-off of all
14 the joint participants to agree that, yeah, we are okay
15 with what the results show.

16 MEMBER LITTLE: Thank you. I do have
17 one -- that brings me to one other question, actually,
18 clarification. So the cluster that is being studied
19 right now that this project is in, is not the cluster
20 that ended March 31st, the most recent cluster, it's a
21 cluster that ended way back in 2020?

22 MR. SPITZKOFF: Correct. Yes.

23 MEMBER LITTLE: Thank you.

24 MEMBER GOLD: Mr. Chairman?

25 CHMN STAFFORD: Yes, Member Gold.

1 Microphone, please.

2 MEMBER GOLD: Mr. Chairman, can you hear me
3 now?

4 CHMN STAFFORD: Yes.

5 MEMBER GOLD: I have a question for
6 Mr. Spitzkoff. You gave us a date of 1 October for this
7 completion. Is that a hard date or a soft date?

8 MR. SPITZKOFF: That is a soft date. That
9 is our estimate at the moment. But, you know, this is a
10 complex area with, as you can imagine, there was the
11 prior cluster added 4,000 megawatts. There were a lot of
12 upgrades identified in that cluster, and now we're
13 looking to add 2,000 megawatts on top of that, so the
14 results are, you know, there's a lot of issues that we're
15 trying to mitigate in this study. So right now
16 October 1st is a soft date.

17 MEMBER GOLD: Now, you picked October 1st
18 for a reason, what was your reason?

19 MR. SPITZKOFF: I think that date was
20 picked based on our engineer's judgment at the time that
21 we provided that estimate on how long we thought it was
22 going to take, but -- and that was -- that was multiple
23 weeks ago that that date was provided. And since then,
24 we've, you know, we've been running the studies and
25 seeing what the results have looked like, and they're

1 pretty complicated. So now, as we're getting closer to
2 October 1st, and, you know, we're -- we're still trying
3 to work through the results, the October 1st is -- is a
4 little -- is a soft date at this -- at this moment.

5 MEMBER GOLD: So what is your -- I won't
6 hold you to it, but what is your professional guesstimate
7 of an actual date, sometime within how many days of
8 October 1st?

9 MR. SPITZKOFF: I don't have --

10 MEMBER GOLD: Just a guesstimate.

11 MR. SPITZKOFF: I don't have that
12 information, because I don't know what they're seeing in
13 the actual study results themselves. I just know the
14 high-level feedback when I asked the question, that
15 there's a lot of mitigations to work through, and
16 October 1st right now is a soft date, as I see it.

17 MEMBER GOLD: Who picked the October 1st
18 date?

19 MR. SPITZKOFF: The APS engineer who is
20 coordinating the studies from the internal perspective
21 and with our consultants that are actually running the
22 power flows themselves, he provides an estimate on -- on
23 using his best judgment when he thinks we will be
24 through, how long it would take.

25 MEMBER GOLD: Is there a possibility that

1 sometime during this meeting, during an intermission, you
2 can contact that engineer and get his next best
3 guesstimate?

4 MR. SPITZKOFF: I -- I don't think so. He
5 would have -- I feel he would have given me that date if
6 he had a better date. They also -- he also didn't say
7 October 1st was not going to be met.

8 MEMBER GOLD: Say that again.

9 MR. SPITZKOFF: He also did not say
10 October 1st was not going to be met. So right now that's
11 the date we're going with. However, there's no -- we're
12 not providing a guarantee that it's going to be
13 October 1st.

14 MEMBER GOLD: But it's a good guesstimate.

15 MR. SPITZKOFF: Right now that's a good
16 guesstimate, because at the end of the day the study is
17 going to take as long as it takes to ensure that
18 everything that's been identified is fully mitigated.

19 MEMBER GOLD: Again, back to my basic
20 question, there's a lot of people here based on a date,
21 and a date could be costly. So October 1st is the date
22 we, as a committee, should shoot for to hear something,
23 based on your engineer's statement to you within the past
24 couple of weeks, correct assumption or am I saying
25 something wrong?

1 MR. SPITZKOFF: I don't know if I want to
2 provide a response to that.

3 MEMBER GOLD: Can you get a response to
4 that, if not you, from somebody else?

5 MR. SPITZKOFF: Well, it sounds like it's
6 a -- you're asking us for what is basically a guaranteed
7 or a drop-dead date.

8 MEMBER GOLD: No, a best guesstimate.

9 MR. SPITZKOFF: I can -- if there's another
10 break, I can make a call.

11 MEMBER GOLD: Thank you.

12 I yield, Mr. Chairman.

13 CHMN STAFFORD: Member Drago.

14 MEMBER DRAGO: Yeah, Mr. Spitzkoff, I've
15 just got a question, when you talk about the mitigations
16 that might be needed, what is your longest long-lead item
17 in a mitigation situation?

18 MR. SPITZKOFF: I'd say right now that's
19 extra high-voltage transformers. They're running about
20 four years on a lead time.

21 MEMBER DRAGO: Thank you.

22 MEMBER LITTLE: Mr. Chairman?

23 CHMN STAFFORD: Oh, one moment, Member
24 Little. Member Kryder had a question.

25 MEMBER KRYDER: Before you came to the

1 witness table, we spoke about three other projects that
2 had been approved by the Line Siting Committee, and
3 subsequently, I believe, by the Corporation Committee --
4 Commission, West Camp Wind 00206, Atlas Solar 00202, and
5 Solar Pepper Power 00196. What's the status -- excuse
6 me -- what's the status of those three projects now, do
7 you happen to know?

8 MR. SPITZKOFF: I certainly know two of
9 them. The third, the -- was it Aztec the one in the
10 middle that you mentioned?

11 MEMBER KRYDER: Atlas Solar.

12 MR. SPITZKOFF: Atlas Solar. That's an
13 interconnection request into another entity, and not onto
14 the APS system, so I'm not familiar with the status of
15 that project. But the West Camp Wind, they have -- to
16 the best of my knowledge, they have a large generating
17 interconnection agreement already, and I believe they're
18 doing pre-engineering work in anticipation of
19 construction.

20 I also believe they have an offtaker. On
21 the Pepper -- Solar Pepper Power one, which if that's the
22 one down by Saguaro that I'm remembering correctly, they
23 also have their interconnection agreement, and I
24 know -- I believe APS is -- we are doing engineering, and
25 I believe we've started ordering long lead equipment.

1 And we may or may not have started actual construction
2 work, like moving dirt or not. But that project is
3 moving forward.

4 MEMBER KRYDER: Thank you very much. So
5 in -- in at least two cases, that is, West Camp Wind and
6 Solar Pepper Power, both of those got their impact study
7 and they're underway?

8 MR. SPITZKOFF: Yeah, they got their impact
9 study, they got their facility study, and they got their
10 interconnection agreement.

11 MEMBER KRYDER: Thank you very much.

12 CHMN STAFFORD: Member Little.

13 MEMBER LITTLE: Mr. Spitzkoff, who is the
14 consultant doing these studies? And do you usually use
15 the same one or do you have several that you use?

16 MR. SPITZKOFF: We use several.

17 MEMBER LITTLE: That's good enough.

18 MR. SPITZKOFF: Okay. And I do want to
19 correct, the West Camp Wind, now my memory is coming back
20 to me, they don't -- I don't think they have an
21 interconnection agreement. I believe they have a
22 facility study or they're almost complete with their
23 facility study agreement. But they -- they may have
24 requested us to -- to perform engineering -- engineering
25 and procurement activities, ahead of their

1 interconnection agreement.

2 An interconnection customer can request us
3 to do that. It's at their risk that we would do that
4 work. They would fund it in order to overlap the
5 timelines while they're waiting for an interconnection
6 agreement to be completed, they can request us to start
7 the -- basically, the final engineering, and if there are
8 long-lead equipment, they can ask us to -- to start
9 procuring those.

10 MEMBER KRYDER: Thank you for the
11 additional information.

12 CHMN STAFFORD: That was West Camp Wind you
13 were speaking about?

14 MR. SPITZKOFF: Yes.

15 CHMN STAFFORD: That's the 206?

16 MR. SPITZKOFF: Yes.

17 CHMN STAFFORD: Okay. Have they selected
18 what -- whether it would be 345- or 500-kV line they're
19 going to build, because it's my understanding they can
20 build one or the other, but not both, have they have made
21 that selection yet or are they still waiting for results
22 of studies to make that choice?

23 MR. SPITZKOFF: I know from our
24 interconnection standpoint, they will be interconnecting
25 into our 345-kV lines.

1 CHMN STAFFORD: Okay. So they've made the
2 selection, then?

3 MR. SPITZKOFF: Their case was a little
4 weird, and I don't want to say that it was -- it was --
5 it was one or the other. I just know, from where their
6 project is interconnecting into our system, it's the
7 345-kV line.

8 CHMN STAFFORD: Okay. I'm just looking at
9 the order that approved it, condition 21 states that,
10 "The applicant shall select either the 345- or 500-kV
11 interconnection authorized herein and shall make a filing
12 in the Commission's docket control when the selection has
13 been made."

14 I didn't see that in the docket, so I'm
15 just curious. That's one of the things, you know,
16 conditions can be imposed, but may not always be complied
17 with. So I just wanted to make that -- make that point,
18 because I'm looking at the order, and it says they should
19 file it in the docket, and I looked at the docket and
20 it's not there, but it appears they have made the 345-kV
21 selection. I'm not saying you made that statement, I'm
22 just -- from the information you provided, it appears --
23 that's how it appears to me, and I find that a little
24 concerning.

25 BY MR. DERSTINE:

1 Q. Well, Mr. Spitzkoff, West Camp Wind had two
2 separate queue positions, two separate interconnection
3 requests, one was for the wires-to-wires connection, the
4 345, the other one was a 500-kV interconnection, as I
5 understand it, or my recollection is at Cholla, they have
6 continued to pursue both of those interconnection
7 requests.

8 Do you know whether they have pursued the
9 facilities study for the 500-kV line as well?

10 A. (MR. SPITZKOFF) I don't know that. And I don't
11 know whether they are still pursuing the 500-kV
12 interconnection request or if they have withdrawn that.
13 I don't know. I can find that out.

14 Q. Can they continue to pursue both, at least
15 through the LGIA process, up until a certain point in
16 time?

17 A. (MR. SPITZKOFF) Yes, they can.

18 Q. And what is the point in time in which they
19 would have to make a determination or select one of their
20 interconnection options?

21 A. (MR. SPITZKOFF) Well, technically, they can
22 pursue both and get interconnection agreements for both,
23 as long as the study -- the study work treats them as two
24 projects. If in their request for the second one, which
25 would be the 500, if they predicated that upon the study

1 work not having the 345, then they would not be able to
2 get an interconnection request for both projects at the
3 same time, but I don't know if that has been done, they
4 may be -- they're possibly looked at as two independent
5 projects.

6 Q. Okay.

7 CHMN STAFFORD: Mr. Derstine, please
8 continue with your direct.

9 MR. DERSTINE: Thank you.

10 Q. Mr. Spitzkoff, through my direct questions, as
11 well as your colloquy with members of the committee,
12 you've covered the large generator interconnection
13 process, as dictated by FERC under its LGIA procedures,
14 in the form of the Large Generator Interconnection
15 Agreement; you've explained how the -- how the various
16 queue or the cluster studies are performed, some of the
17 intricacies with the cluster studies, and what's involved
18 with that, and given some detail on this -- on the
19 cluster study that relates to the interconnection request
20 by Aurora Solar for the Obed Meadow gen-tie line project,
21 and you indicated and gave some testimony about the high
22 number of interconnection requests and the large load,
23 the megawatts associated with those number of
24 interconnection requests.

25 Is that a situation that is unique to APS or is

1 that something that is occurring across the country?

2 A. (MR. SPITZKOFF) It's occurring across the
3 country, it's a -- it's a national issue.

4 Q. Okay. And you indicated, I think you touched on
5 the fact, that FERC has recently made a final rule that
6 is making its way through the legal process for becoming
7 a finalized rule through the NOPR process.

8 What is driving, or do you have an understanding
9 of what's driving the proposed rule change by FERC from
10 the 2003 rule?

11 A. (MR. SPITZKOFF) Certainly. The -- I'd say the
12 biggest driver is the backlog in the process. So
13 nationally, I believe, the average is between four and
14 five years that projects are spending within the
15 interconnection process. That, combined with the
16 uncertainties that when you're trying to study the volume
17 of requests that come in, and the -- how the current
18 process does not do a fair job of precluding speculative
19 projects from requesting interconnection, what happens is
20 you see a lot of projects withdraw their request, they
21 might put in four requests at one time, knowing that
22 their target is to get at least one project, but, you
23 know, they -- they make multiple requests, and once they
24 get one project, then they withdraw the other three
25 requests.

1 And when you withdraw a request, especially if
2 it's late in the process, you affect all of the other
3 projects, because they now have to be restudied with the
4 new information. So the volume of interconnection
5 requests, both in just the number of requests and the
6 megawatt amounts, are really not effectively addressed in
7 what was the original FERC proforma. Then, you know,
8 FERC did create Order 845, I think it was 2018, which
9 tried to address some improvements.

10 It did help a little bit, it did not go far
11 enough, especially the last couple of years. I don't
12 know the stats offhand, but the volume of requests that
13 are in queues around the country, I -- I believe it may
14 have doubled in the last handful of years, and it's the
15 largest amount of megawatts that has ever been in
16 interconnection queues, so the -- those are really the
17 big reasons for the need for the new reform.

18 Q. Okay. And how, just at a high level, how, to
19 your understanding, would the proposed new rule change
20 the process that you've described for the committee here
21 today?

22 A. (MR. SPITZKOFF) Certainly. So as I described
23 earlier, the existing process is a serial process, it's a
24 first-come, first-serve process, and it provides an
25 option for utilities to study projects, as we said, one

1 at a time. And it does provide the opportunity, if you
2 want to cluster projects similar to how APS does it, but
3 still that cluster is -- it's still a serial cluster what
4 it's referred to is -- is -- it's when you're taking
5 projects based on when they made the interconnection
6 request.

7 And there are very few, I guess, barriers are
8 the word for -- for people to make interconnection
9 requests, and hence, a lot of speculative projects, so
10 what they're -- part of the new rule is, first, it
11 mandates now everyone is going to do a cluster study
12 process. And it -- it mandates that the cluster window
13 is now 45 days in length, once a year. So 45 days at
14 some point within the year what utilities choose, that's
15 when your request window is going to be open, and that's
16 when you'll take interconnection requests. So that's the
17 first thing they did.

18 The other thing, major reform is requiring a
19 site control. So previously there was no requirement for
20 an interconnection request to actually have site control
21 for where their facility is -- is proposed to locate.
22 You could pay a deposit in lieu of having site control.
23 But what the new order has in it is a requirement for
24 site control. And at the early stages, that requirement
25 is 90 percent site control.

1 So of -- of the number of acres your project
2 will need, say you're a solar farm and, you know, there's
3 a megawatt-per-acre calculation, you know, for instance
4 it's -- I'm making these numbers up -- but if it's 5
5 acres per megawatt for a solar array, and you're at a
6 100-megawatt request, you have to have 500 acres. But
7 the early stage says you have to have 90 percent of site
8 control. So 90 percent of 500 acres. And then as you
9 get to the, I believe it's the facilities stage, then you
10 have to have 100 percent of your site control.

11 Q. Okay. The -- I handed out to the members of the
12 committee, and I think we've handed a copy to the court
13 reporter, this is an article from Powermag.com, it's
14 dated August 1, 2023, it bears the heading, "FERC Adopts
15 Historic Reforms to Ease Nationwide Generation
16 Interconnection Backlog," and it goes on to describe that
17 the final rule is rooted in the 2003 order, but then
18 makes a number of changes, as you've just touched on at a
19 high level, to try to reduce the backlog of
20 interconnection requests that not only is APS
21 experiencing, but transmission providers across the
22 country are experiencing. And I'll just read a short
23 section of this where it indicates that the final rule
24 references an April 2023 released research by Lawrence
25 Berkeley National Laboratory would suggest that at the

1 end of 2022, and this is on page 2, my apologies, "More
2 than 10,000 interconnection requests were active
3 throughout the U.S., that represents more than 2,000
4 gigawatts of potential generation and storage capacity,
5 95 percent of which was solar, battery storage, and wind
6 energy. In fact, the combined solar and wind capacity
7 now actively seeking grid interconnection approximately
8 1.250 [sic] gigawatts approximately equals the installed
9 capacity of the entire U.S. power plant fleet," according
10 to the Berkeley lab report. And I'll read just a --

11 MEMBER LITTLE: Mr. Chairman?

12 CHMN STAFFORD: Member Little.

13 MEMBER LITTLE: Can I correct for the
14 record, it's not 1.25 gigawatts, it's 1,250 gigawatts.

15 MR. DERSTINE: -- 250 gigawatts. A much
16 bigger number, Member Little, thank you. I appreciate
17 that.

18 Q. So in terms of what's driving the delays that
19 this applicant is seeing and receiving its System Impact
20 Study, and what other projects are -- the same delays
21 that other projects are seeing is driven in -- I assume,
22 in large measure, by just the large number of
23 interconnection requests, and the high load associated
24 with those projects that have to be analyzed through
25 the -- through the System Impact Study process; is that

1 right?

2 A. (MR. SPITZKOFF) Yes.

3 Q. Okay. But there is a sentence here that I
4 wanted to also read to you and ask for your feedback on.

5 MEMBER KRYDER: Which page?

6 MR. DERSTINE: Yeah, let me find it here.
7 Were you able to track what I just read? Was that in the
8 copies that you had received?

9 MEMBER KRYDER: Yes.

10 MR. DERSTINE: Okay. Other than the
11 correction -- appropriate correction from Member Little?

12 Q. Okay. On page 4, and I'm reading starting at
13 the second line from the top, "In addition to the drastic
14 increase in the number of interconnection requests in all
15 regions of the country, evidence shows that
16 interconnection studies have increased in complexity
17 since FERC issued Order 2003, potentially straining
18 transmission provider resources." And --

19 CHMN STAFFORD: What page are you reading
20 from again, Mr. Derstine.

21 MR. DERSTINE: Page 4 in my copy.

22 MS. BENALLY: Give us just a moment,
23 Mr. Chair.

24 MR. DERSTINE: Maybe we had an issue in --
25 Well, can you give me the correct page number from what I

1 just read?

2 MR. HOFFBUHR: Mr. Derstine, it's on
3 page 3, second paragraph.

4 MR. DERSTINE: Of the -- so -- can you
5 direct us.

6 MR. HOFFBUHR: It's the second line of the
7 second paragraph on page 3.

8 MEMBER KRYDER: "In addition," is that
9 where you're starting?

10 MR. DERSTINE: I believe so, yes. It says,
11 "In addition to the drastic increase in the number," did
12 you find that? I apologize for the disconnect and
13 apparently I'm reading from a copy that has different
14 page numbers, but we're reading from the same sentence.
15 Got it?

16 "In addition to the drastic increase in the
17 number of interconnection requests in all regions of the
18 country," everybody seeing that?

19 CHMN STAFFORD: Yes.

20 MR. DERSTINE: "Evidence shows that the
21 interconnection studies have increased in complexity
22 since FERC issued Order 2003, potentially straining
23 transmission provider resources, it noted. At the same
24 time we find the available transmission capacity has been
25 largely or fully utilized in many regions creating

1 situations where interconnection customers face
2 significant network upgrade cost assignments to
3 interconnect their proposed generating facilities."

4 Did I read that all correctly?

5 CHMN STAFFORD: Yes.

6 MR. DERSTINE: Okay.

7 Q. So, Mr. Spitzkoff, is that also part of the time
8 it takes to complete a System Impact Study, not only for
9 the Obed Meadow gen-tie project, but for all
10 interconnection requests is that you have the large
11 number of projects that are in the queue, as well as the
12 complexity of the analysis driven by, again, the number
13 of projects, as well as the, like, potentially
14 limitations on the transmission system or facilities that
15 they're seeking to interconnect to?

16 A. (MR. SPITZKOFF) Yes, it's the number of
17 interconnection requests and the gross megawatt amounts
18 of those interconnection requests.

19 Q. Okay. So bringing that back to the cluster
20 study for the Obed Meadow gen-tie project, is it -- is it
21 true that these -- what I just read is -- explains, to a
22 large degree, that is the large number and the complexity
23 of interconnection requests is what's driving the current
24 timing for the SIS for the Obed Meadow project?

25 A. (MR. SPITZKOFF) That's correct. You know,

1 given -- given the size of the cluster before them, and
2 how long that study took, and until the study for their
3 cluster could get underway.

4 Q. Okay. Is there any information you want to
5 provide the committee, I mean, I think you received a
6 number of questions about specifically this, the System
7 Impact Study for Obed Meadow gen-tie project, I mean,
8 you've been asked to try to either commit or, you know,
9 give your best estimate about whether APS can -- can meet
10 the October 1 release date for the System Impact Study.
11 I think you've been careful to indicate that that's
12 the -- your best information on when the System Impact
13 Study will be provided for this project, but you've
14 qualified it by indicating that, as has happened in the
15 past with the prior projections for release of the SIS
16 for Obed Meadow, that the October 1 date could slip; is
17 that a fair statement?

18 A. (MR. SPITZKOFF) Yes, that is.

19 Q. Let's touch on, I guess, the issue that was
20 raised by the applicant, and it's not necessarily, I
21 guess I want to circle back and Mr. Hadley gave some
22 testimony about how the interconnection or how APS will
23 ensure that the interconnection of the Obed Meadow
24 gen-tie project is safe and reliable.

25 Did you hear his testimony this morning?

1 A. (MR. SPITZKOFF) Yes, I did.

2 Q. Okay. I think he -- his testimony was
3 essentially that Obed Meadow gen-tie will not
4 interconnect at Cholla without APS ensuring and
5 establishing that it is a safe and reliable
6 interconnection; is that a true statement?

7 A. (MR. SPITZKOFF) Yes, it is.

8 Q. And how does that happen or what requires that
9 under the large generator interconnection procedures?

10 A. (MR. SPITZKOFF) Certainly. So the procedures
11 themselves provide a level of requirement as a -- as I
12 said earlier, while we can't say no to any
13 interconnection request, we do have the obligation to
14 ensure that they interconnect in a reliable manner to the
15 system, and not providing a negative impact.

16 And you couple that with a suite of NERC
17 standards and NERC is the North American Electric
18 Reliability Corporation, they're really the enforcement
19 arm of FERC and reliability standards for the U.S., they
20 have a suite of standards, and I'd say most relevant for
21 generator interconnections is the standard FAC-002, which
22 requires the study of any interconnection into your
23 transmission system, be it a generator, another wire is
24 what we call wires to wires, or -- or a large end user.
25 Anything connecting to your transmission system needs to

1 have a reliability study performed, and that reliability
2 study has to be done in coordination with the requester
3 and any affected -- other affected systems. So that's
4 one.

5 And then probably more specifically to the
6 details of the System Impact Study is the standard
7 TPL-001. I think it's up to -5, which is basically
8 version 5.

9 Q. What is that? What is TPL?

10 A. "TPL" is shorthand for transmission planning.
11 So the NERC standards all have a three letter code, FAC
12 is shorthand for facilities; there's MOD, which is for
13 modeling, so on and so forth. So TPL-001 is the main
14 standard that requires all transmission utilities to
15 perform a transmission assessment on an annual basis.
16 And within that assessment, it prescribes the type of
17 outages that you need to take, and they go all the way
18 from, you know, all lines and service, everything being
19 good, to multiple contingencies, you know, two lines
20 going out at the same time, or even more. And at the
21 same time, it also prescribes what the minimum system
22 response is allowed to be for when a system has one of
23 those outages.

24 So, for instance, if there's a single
25 contingency, you're not supposed to drop load or

1 generation and all of your facilities need to be within
2 their emergency rating and within their emergency voltage
3 limits. So that's just an example of the -- there's a
4 list of the minimum types of outages, and then what the
5 minimum response of the system needs to be to -- to say
6 that you have a -- you know, you have good reliability.

7 So when you combine those two in the System
8 Impact Study, we mimic the TPL -- the -- what we study in
9 the TPL assessments. So we do the N minus zero, the N
10 minus one and some of the higher-order outages, and the
11 measurements for reliability are based on the same
12 criteria.

13 Q. So what I hear you saying is that this project
14 nor any other project seeking to interconnect at
15 facilities or transmission lines that are controlled
16 and/or owned by APS will not be allowed to interconnect
17 unless they meet those requirements?

18 A. (MR. SPITZKOFF) Yes, that is correct.

19 Q. And that is --

20 MEMBER FONTES: Clarification, please?

21 CHMN STAFFORD: Yes, Member Fontes.

22 MEMBER FONTES: That determination is not
23 made until after the System Impact Study's completed; is
24 that not correct?

25 MR. SPITZKOFF: That is basically the

1 System Impact Study, that is what it's doing.

2 MEMBER FONTES: Yeah, but -- so you
3 couldn't impact -- or you couldn't determine if we had a
4 line blow out and impacts on the environment until after
5 that is complete or any kind of mitigations that we would
6 need to plan for until the full -- until the full SIS is
7 complete?

8 MR. SPITZKOFF: I might ask you to
9 elaborate on that "environmental impact."

10 MEMBER FONTES: So if you have -- if you
11 have an environmental impact as a result of an N minus 1
12 or N minus 2 contingency, that is a result of the System
13 Impact Study, because the order of that is that the study
14 is complete and then we would look at the mitigants; is
15 that correct? Or do you have a list of mitigants as the
16 output of the SIS?

17 MR. SPITZKOFF: There is a list of
18 mitigations, but I'm -- I guess I'm struggling with I'm
19 not sure what the environmental impact of an outage would
20 be.

21 MEMBER FONTES: So let me rephrase or ask
22 this in a different context. When APS has a rate-based
23 generation project and you do your own LGIA and you do
24 your own System Impact Study, when do you apply for the
25 CEC?

1 MR. SPITZKOFF: That would be --

2 MEMBER FONTES: At the end of the System
3 Impact Study or --

4 MR. SPITZKOFF: That would be a fact-based
5 decision for each, it could be -- you could apply in many
6 different stages.

7 MEMBER FONTES: Okay. In your experience
8 on renewable energy projects, what -- what has APS done
9 on ones that are rate-based?

10 MR. SPITZKOFF: I can't recall offhand a
11 renewable energy project that APS has applied for a CEC
12 that is applicable to a CEC, most of our projects are at
13 a lower voltage. I guess the only one would be the
14 proving grounds that we did just recently, and I believe
15 the System Impact Study was complete for that project.

16 MEMBER FONTES: Before you applied for the
17 CEC?

18 MR. SPITZKOFF: Yes.

19 MEMBER FONTES: Thank you.

20 BY MR. DERSTINE:

21 Q. Does the System Impact Study take into account
22 any sort of analysis of environmental impacts of, say,
23 the N minus 1 or other --

24 A. (MR. SPITZKOFF) It does not.

25 MEMBER FONTES: No, but it identifies

1 issues that could result in N minus 1 or N minus 2 to
2 inform any kind of environment; is that correct?

3 MR. SPITZKOFF: I -- I don't believe --

4 MEMBER FONTES: It's a resource. It's
5 going to identify issues that the project needs to plan
6 for in terms of mitigations, the end result of the System
7 Impact Study?

8 MR. SPITZKOFF: I would hesitate to say it
9 would do that from an environmental impact --

10 MEMBER FONTES: No, not from an
11 environmental -- again, strike the environmental -- what
12 I'm looking for is you're identifying issues and risks
13 that need to be mitigated as a result of the System
14 Impact Study?

15 MR. SPITZKOFF: Yes, from a system
16 reliability standpoint.

17 MEMBER FONTES: Okay. Thank you.

18 BY MR. DERSTINE:

19 Q. One of the issues that came up this morning or
20 that I -- was raised concerns offtake agreements. Does
21 your analysis under a System Impact Study of a cluster of
22 projects take into account whether there's an offtake
23 agreement or not?

24 A. (MR. SPITZKOFF) It does not. As a matter of
25 fact, if a project has an offtake agreement, there

1 are -- they are under no obligation to inform of us of
2 that at the -- at the time of the interconnection
3 request.

4 MEMBER LITTLE: Mr. Chairman?

5 CHMN STAFFORD: Member Little.

6 MEMBER LITTLE: How do you model the load,
7 then?

8 MR. SPITZKOFF: So under a generator
9 interconnection request, there's no load addition
10 modeled, it's -- you model a generator, and as I was
11 saying before, our studies have different sensitivities,
12 so if you're studying a sensitivity where that generation
13 is going off to the west, then what you do is reduce
14 generation off to the west, in either, for instance, at
15 the Hassayampa Palo Verde hub or in California you would
16 reduce generation.

17 MEMBER LITTLE: So you assume that it can
18 be used?

19 MR. SPITZKOFF: Yes.

20 MEMBER LITTLE: Under whatever assumption
21 you have as to the direction it's going, where it's
22 going?

23 MR. SPITZKOFF: Yes.

24 MEMBER LITTLE: Okay. All right. That
25 answers my question. Mr. Chairman, can I ask a couple of

1 questions that -- that -- to me it seems pretty clear
2 that aside from this project we are looking at some
3 issues that impact future operation of this committee, as
4 far as timing goes with respect to CEC requests. And I'm
5 curious, if the FERC proposed rule is passed, and this
6 45-day window for applications once a year is -- is
7 implemented, do you have any idea how long it would take
8 APS to get caught up if you're just now studying
9 applications that came in in 2020?

10 MR. SPITZKOFF: So there is a transition
11 process that's part of the rule, and I'm only on page 700
12 of the 1,480 of the order. So I've -- I've read through
13 the transition process once. I'm not going to try to
14 replicate what it says that process should be.

15 MEMBER LITTLE: Okay.

16 MR. SPITZKOFF: But there's -- but there is
17 a process --

18 MEMBER LITTLE: For getting --

19 MR. SPITZKOFF: -- to catch up, yes.

20 MEMBER LITTLE: Okay. That's good. And my
21 other question has to do with the biennial transmission
22 assessment. There are studies that are done in support
23 of the biennial transmission assessment reliability and
24 power flow studies, and it is -- I believe that Staff
25 has, at least in the past, made the assumption that the

1 projects that were included in those studies were current
2 and up to date. It's beginning to sound like they
3 aren't.

4 Is that, for example, this -- the Obed
5 Meadow project probably was not included in the studies
6 that were done for the BTA; is that correct?

7 MR. SPITZKOFF: That's correct. But in the
8 BTA, I would not say that Staff is, in their analysis,
9 is -- I'm really determining, making a determination on
10 the reliability of projects, like Obed Meadow, who they
11 may have filed a 10-year plan, but there's no -- there's
12 no facilities associated with that 10-year plan yet. So
13 they -- in the BTA, Staff relies on the studies that the
14 utilities have performed.

15 MEMBER LITTLE: Right.

16 MR. SPITZKOFF: And those studies inform
17 the reliability of the grid. Now, those studies will
18 have projects included in the modeling that are past the
19 certain point of their interconnection process, you know,
20 if they have an interconnection agreement, if they have a
21 PPA, et cetera, because their upgrades are known, and we
22 know that they're likely to build and go to commercial
23 operation.

24 When the BTA assessment comes out, my
25 recollection is not -- it's not seen statements just for

1 all interconnection projects that happen to have filed a
2 10-year plan on saying yes, we agree these are reliable
3 or not.

4 MEMBER LITTLE: That's true. However, I
5 think that in the past if a major project, back in the
6 days when there were six interconnection agreements per
7 year, and planning was much -- the planning window was
8 much longer, generally speaking, I think those projects
9 were included in the studies.

10 This is a different world. And I guess
11 what I'm trying to establish is what the probability is
12 that any of these projects that are coming in for CECs
13 similar to this one. I really don't want to pick on you
14 guys, because you've done an outstanding job in the work
15 that you've done, but that those projects will have been
16 included in the studies that were done in support of the
17 BTA?

18 MR. SPITZKOFF: Yeah, so I'll just add that
19 while they may not have been included in the -- this last
20 BTA, and they might not be included in the current BTA
21 that's ongoing, at a point when they are going to move
22 forward, they will be included in the models and
23 evaluated and as -- you know, I would hope, as my earlier
24 testimony moments ago demonstrated, that the
25 interconnection process ensures generators are connected

1 to the system in a safe and reliable manner.

2 MEMBER LITTLE: Thank you.

3 MEMBER KRYDER: Mr. Chairman?

4 CHMN STAFFORD: Member Kryder.

5 MEMBER KRYDER: Back a couple of minutes,
6 you talked about the upcoming or likely revision of the
7 FERC rule. When do you see that coming into actual play,
8 because I think that's pertinent to the transition plan
9 and all 1,400 pages?

10 MR. SPITZKOFF: Certainly. So there's a
11 whole lot of legal machinery that happens when a FERC
12 rule comes out, there's a -- the rule itself has a clock
13 in it, I believe it's 90 days, again, that timeline was
14 not in the first 700 pages, but I think I heard it was --
15 it was 90 days for public transmission providers to make
16 their compliance filings with FERC, which those
17 compliance filings tell FERC here's how we've changed our
18 OATT, our Open Access Transmission Tariff, to comply with
19 your order, that 90 days, assuming it is 90 days, starts,
20 I believe it's the day the order is published on the
21 federal register, something like that.

22 MEMBER KRYDER: And put -- put some
23 calendar around that, what -- what are you looking at,
24 two days, two years?

25 MR. SPITZKOFF: Looking at in terms of?

1 MEMBER KRYDER: Publication of the rule.

2 MR. SPITZKOFF: I'm not an expert. I would
3 just say generally it's just a matter of weeks, so it's
4 possible that it's already been published, and if it
5 hasn't been, it would most likely be published within the
6 next handful of -- of weeks for sure.

7 MEMBER KRYDER: Okay. So let's just grab a
8 date, an arbitrary and made-up date, but we'll say
9 September 30, it's published. Then Obed Meadow would
10 fall into the transition package and all 1,400 pages that
11 you talked about, and so instead of a likely firm
12 decision on part of your company, it now falls back into
13 the transition package.

14 MR. SPITZKOFF: Okay. So if we -- if we
15 play out a timeline and if we say September 1st is when
16 the 90-day clock starts, that means by -- I believe that
17 would be generally the end of the year, APS would have to
18 have made its compliance filing, and basically start the
19 transition process.

20 Now, the -- from -- from what I read, the
21 transition process has two pieces, and it depends on
22 where the existing projects are in their process. So if
23 those existing projects have signed a facility study
24 agreement, then there's a facility study transition.
25 And, for all intents and purposes, they continue on to

1 what the existing process is today, and frankly, once you
2 get past the System Impact Study, the process is a whole
3 lot more efficient and quicker. But if a project does
4 not have their facility study agreement yet, then they go
5 into a system impact cluster transition study in some
6 form or fashion.

7 So the question is it does come down to
8 calendar, and if APS does complete their System Impact
9 Study by October 1st, it would be before the transition
10 process starts. So they would likely be within the
11 facility study stage of their project by the time that
12 transition starts.

13 MEMBER KRYDER: Thank you very much.
14 That's very helpful.

15 MR. DERSTINE: And, Mr. Chairman, committee
16 members, if -- to just clarify Mr. Spitzkoff's testimony
17 on when the new rule will become effective, it will
18 become -- Order Number 2023 will become effective 60 days
19 after it has been published in the federal register. It
20 has not yet been published -- not yet been published.
21 Transmission providers, compliance filings will be due
22 90 days after the final rules publication date. And then
23 the NOPR has a 180-day compliance period, so that's the,
24 I think the transition period that Mr. Spitzkoff --

25 MEMBER KRYDER: So it has not been

1 published and nobody can guess, in my experience, when
2 things get published in the federal register, that's a
3 pretty black box in my experience?

4 MR. DERSTINE: Bit of a moving target at
5 this point.

6 MEMBER KRYDER: Thank you again.

7 MR. DERSTINE: Yes.

8 Mr. Chairman, members of the committee, I
9 don't have any further direct testimony to elicit from
10 Mr. Spitzkoff. We wanted to be here today. We
11 understood that the committee had questions about the
12 System Impact Study for the Obed Meadow gen-tie project
13 and the time that it's taken to get to a System Impact
14 Study or how much time it will take to get to a System
15 Impact Study, and to provide the answer to your questions
16 around that. And then we wanted to, at least to the
17 extent we can, address questions regarding the
18 reliability considerations in terms of the
19 interconnection process.

20 And so, you know, we certainly, APS doesn't
21 have a stake or, you know, a position on the issuance or
22 the timing of the issuance of the CEC, but we wanted to
23 be responsive to your questions and to give you the best
24 information we could to assist the committee in your
25 decision-making process.

1 CHMN STAFFORD: Thank you, Mr. Derstine,
2 the committee appreciates that.

3 MEMBER LITTLE: Mr. Chairman?

4 CHMN STAFFORD: Yes, Member Little.

5 MEMBER LITTLE: I would like to thank APS
6 very much for coming today, taking the time to outline
7 for us the process, and what is necessary, that was all
8 kind of a vague thing for us. And I think it's important
9 and it was very, very helpful.

10 Also, I would like, sort of in line with
11 the questions that I asked before, in general, can I ask
12 the applicant what the impact would be for an applicant,
13 not this one, because we're quite a ways into this one,
14 but what would be the impact of waiting to come in for a
15 CEC -- for applying for a CEC, waiting until later in the
16 planning process for a project?

17 And, Mr. Derstine and Mr. Crockett, you
18 guys have both a lot of experience in this area.

19 MR. DERSTINE: Yeah, I'll just quickly
20 answer that I don't think I'm in a position to answer
21 that, and I don't think APS is either. I think it
22 depends on each particular project, and probably
23 commercial and business considerations that are unique to
24 each project. Sometimes there's financing
25 considerations. You know, access to capital, et cetera,

1 that may be tied to obtaining various permits, including
2 the CEC, but I think that's a -- certainly a better -- a
3 question better answered by this applicant, at least in
4 terms of this project and maybe about other projects
5 which they've had experience with.

6 MEMBER FONTES: Mr. Chairman, Member
7 Little, may I rephrase that in a slightly different
8 context?

9 CHMN STAFFORD: Yes, Member Fontes.

10 MEMBER FONTES: When a project is put out
11 for competitive tender for the award of an offtake by APS
12 under a PPA, call it 15, 20 years, is there any advantage
13 to a developer when they do have the CEC in that
14 evaluation of their bid proposal that could be motivating
15 a developer that APS, typically or generally, I know each
16 RFP is different, would have in there that would motivate
17 a developer to want the CEC in a -- in a -- I don't want
18 to say assertive, not aggressive, but assertive manner
19 like this, knowing that they don't have a System Impact
20 Study so they could be positing for a competitive
21 advantage against the other, you know, offers that you
22 could characterize for us?

23 I know you need to be careful on that
24 because you're representing both -- both sides, but could
25 you characterize that just so we have an appreciation of

1 the committee?

2 MR. DERSTINE: Well, I -- Mr. Chairman,
3 Member Fontes, I would answer it this way: That, in my
4 experience, given the need for resources that both
5 renewable, as well as firm generation resources that are
6 facing companies' utilities, like APS, and other
7 utilities throughout the Southwest, that it is not
8 uncommon in a Power Purchase Agreement or other offtake
9 agreements, tolling agreements, to have timing
10 requirements, that may include a requirement that the
11 counter party have the CEC and obtain the necessary
12 permits by a certain deadline, so that they can meet
13 commercial operation date. So I think it is not uncommon
14 for project developers and I'll certainly turn it over
15 to -- to this applicant, but project developers to be
16 pushed and be required to meet a commercial operation
17 date, and that is certainly going to be dependent on
18 obtaining a CEC.

19 MEMBER FONTES: But that's typically done
20 post-award, as the way you've characterized it; is that
21 correct? I was looking at it pre-award, when they're
22 still bidding for a RFP, is there -- is there a
23 requirement, typically, on an APS open tender, open
24 solicitation that they have the CEC or do they do that
25 after they get the PPA award?

1 MR. DERSTINE: Yeah, I don't know that I
2 can -- I'm not in a position to answer that specific
3 question. But I think it's a consideration that a
4 developer of a storage project or a renewable project
5 would take into account, and that is the requirements for
6 when the project needs to go online to satisfy the
7 offtaker. And oftentimes the offtaker has a need for
8 these generation resources, certainly sooner rather than
9 later, and they are pushing for early operation and
10 commissioning dates.

11 MEMBER FONTES: And in this case we have no
12 commercial offtake or we have no line of site that
13 they're even bidding on anything, so I just want to note
14 that.

15 MR. DERSTINE: And, again, I don't want to,
16 you know, Mr. Crockett or his client may have an entirely
17 different answer than the one I gave, and so I would, you
18 know, ask them to please weigh in.

19 CHMN STAFFORD: Yes, please, Mr. Crockett.

20 MR. CROCKETT: Chairman Stafford, Member
21 Fontes, let me -- let me answer the question by turning
22 to my client, either Mr. Hoffbuhr or Mr. Hadley.

23 Would you -- would you please describe your
24 understanding of the, generally, the request for proposal
25 that APS has solicited with regard to the, you know,

1 Northern Arizona, the Cholla Power Plant area.

2 MR. HOFFBUHR: Yes, sure.

3 Chairman Stafford, I'll touch also a little
4 bit on timing, you know, and how we schedule and why
5 we're here today without a System Impact Study. As a
6 developer, you know, first step is obviously identifying
7 a potential site, you know, that makes sense in this case
8 adjacent to Cholla, which has a scheduled retirement --
9 fully scheduled retirement date of 2025.

10 When we first started acquiring the land
11 for that project, that's -- that's why we were near
12 Cholla, for a 2025 COD. So after securing site control
13 there's obviously a lot of boxes you need to check to
14 advance the development of a project, including, as I
15 mentioned, securing leases, filing interconnection
16 requests, identifying the required permits to complete
17 the project, in this case Navajo County Special Use
18 Permit and the CEC. And then timing that with APS RFPs.
19 And in trying to develop and have a -- as complete of a
20 project as possible when these RFPs are released.

21 So as I mentioned, we -- we established
22 site control in 2019 and immediately followed that with
23 an interconnection request into APS with what we assumed
24 would be a roughly six-month turnaround time and, you
25 know, we've heard today why there are delays, and that

1 makes sense, but as a developer we're trying to plan, we
2 can only go off the information we're given. So as we
3 move forward we did all of our environmental surveying
4 work and went through the County permitting process,
5 which we completed last year. And had originally planned
6 to come in front of the CE- -- in front of your Line
7 Siting Committee last year and decided to hold off just a
8 little bit to wait for the System Impact Study.

9 At the beginning of this year, we were
10 hearing that the Line Siting Committee was booking out to
11 2025, which we've now, you know, we've had conversations
12 about that, and felt with a System Impact Study due date
13 of, at the time April 1st, that with this hearing date
14 that we would have a complete System Impact Study, and be
15 prepared to move forward here today.

16 So -- and in response, you know, as far as
17 the offtake goes, you know, we don't know exactly when
18 APS is going to issue RFPs, but we know that it's
19 generally once a year, and so, you know, all of
20 these kind of things come together when we're trying to
21 bid a -- we know we're going to have potentially an
22 opportunity to bid this project, the retirement of Cholla
23 in '25, and we feel we have a very competitive project,
24 so we're just trying to check those last few boxes to
25 have a complete project to make it as competitive as we

1 can in the RFP.

2 MR. HADLEY: And, Chairman Stafford, if I
3 may add, being one of the support groups for development
4 projects, we typically look across the board and see what
5 we can accomplish as quickly as possible. There's lots
6 of moving parts. In the context of a CEC, we worked with
7 Mr. Crockett, looked at the statute, and felt that we met
8 the requirements to obtain a CEC.

9 Especially given the fact that the SIS is a
10 very early assessment in the interconnection process. I
11 think, as Mr. Spitzkoff elaborated, that there are many
12 potential changes to the study end results after moving
13 past the SIS into the facility study. So we did not
14 necessarily feel that an SIS was the 100 percent picture
15 anyhow of the interconnection impact.

16 CHMN STAFFORD: Thank you.

17 MR. CROCKETT: And if I could just follow
18 up quickly.

19 Mr. Hoffbuhr, you mentioned the site
20 control, just for the record to be clear, where -- where
21 is Aurora Solar with regard to site control, and I guess
22 I'm asking what percent site control do you have both of
23 the solar plant location and also the proposed gen-tie
24 route?

25 MR. HOFFBUHR: We've had 100 percent site

1 control since 2019.

2 MR. CROCKETT: So is it safe to say that
3 Aurora Solar and its parent, Avangrid Renewables, is
4 committed to this project and has done a substantial
5 amount of work and spent a substantial amount of money to
6 get to the point where we are today?

7 MR. HOFFBUHR: Yes, that is true.

8 MEMBER FONTES: Clarification. Do you have
9 a lease with an option to buy or did you buy the property
10 in terms of demonstrating sufficient site control? Just
11 so we know.

12 MR. HOFFBUHR: I'm not -- I -- in this
13 specific case, we have a lease option, not a lease option
14 to buy. So we are --

15 MEMBER FONTES: So you have a lease option
16 that you could walk away and expire if you didn't get
17 this, as opposed to buying the property for site control?

18 MR. HOFFBUHR: That's correct. Yes.

19 MEMBER FONTES: Thank you.

20 MR. HOFFBUHR: So we have a -- we have a --
21 we're in a development lease option period now, which
22 we've extended because of some of the delays, and once we
23 exercise that lease option, we will move into a -- the
24 official lease term for the operational period of the
25 project.

1 MEMBER FONTES: So if the project's
2 abandoned, the lease option's just written off, as
3 opposed to property that's purchased that you have to
4 actually divest on a transaction sale?

5 MR. HOFFBUHR: That's correct.

6 MEMBER FONTES: Thank you.

7 CHMN STAFFORD: What's the deadline to
8 exercise your lease option?

9 MR. HOFFBUHR: Currently? I just had to
10 extend it from 2025 to 2028 on the lease option.

11 CHMN STAFFORD: Okay. Thank you.

12 MR. CROCKETT: And, Chairman Stafford,
13 that's -- that's really all I would have to add to the
14 questions that are before us. I do have some, at the
15 appropriate time, some questions for Mr. Spitzkoff.

16 CHMN STAFFORD: Yes, we had not gotten yet
17 to your cross-examination. It is almost noon. I'm
18 looking to the members, would we want to resume this
19 after a lunch break or do we prefer just to soldier on?

20 MEMBER KRYDER: I think we should bring --
21 Mr. Chairman, given the fact that we don't know how long
22 this cross would be, I suspect it would be timely to
23 break now and then pick up after lunch with
24 Mr. Spitzkoff.

25 CHMN STAFFORD: Mr. Crockett's cross.

1 Mr. Derstine, what -- are there any
2 constraints on your witness's time today.

3 MR. DERSTINE: No, I don't believe so,
4 we've -- we -- we're appearing here today, and I think
5 we're available this afternoon.

6 CHMN STAFFORD: All right. Thank you.

7 All right. With that, I believe that we
8 should take a lunch break, and we will come back to
9 resume with Mr. Crockett's cross-examination.

10 Yes, Mr. Derstine?

11 MR. DERSTINE: That's perfectly acceptable.
12 As a housekeeping item, I wanted to move the article that
13 I referenced in my examination of Mr. Spitzkoff, that's
14 the Powermag.com article, dated August 1, 2023, that was
15 marked as APS-1.

16 CHMN STAFFORD: Quick question on that. Do
17 you have a URL for this or is it behind a pay wall?

18 MR. DERSTINE: It is not behind a pay wall.
19 I can find the URL and provide it.

20 CHMN STAFFORD: All right. Thank you. If
21 you could just -- I will admit the exhibit, if you just
22 supplement with the URL so it would be easier for others
23 to find it that didn't receive a physical copy.

24 MR. DERSTINE: Okay. I can -- should I
25 e-mail that to Mr. Brewer or how do you want me to

1 provide it?

2 CHMN STAFFORD: Yes, please provide it to
3 Mr. Brewer and the court reporter.

4 MR. DERSTINE: Will do.

5 CHMN STAFFORD: Like I said, APS-1 is
6 admitted.

7 (Exhibits APS-1 was admitted into
8 evidence.)

9 CHMN STAFFORD: With that, we will take a
10 recess, and we will come back at, I want to say 1:00, but
11 given our track record of returning on time, if we
12 have -- let's say --

13 MR. CROCKETT: Chairman Stafford, I'm
14 always an optimist, and I'm hoping that we get to a point
15 where we're reviewing a CEC this afternoon, so I want to
16 make sure that we have sufficient time. If it's possible
17 we'll -- we'll be ready to come back at 1:00, if the
18 committee is.

19 CHMN STAFFORD: Okay. Yes, let's take a
20 recess until 1:00, acknowledging the fact that it may be
21 more like 1:15 by the time we get everybody actually in
22 here and start and get back on the record.

23 So with that, we stand in recess.

24 (Recessed from 12:01 p.m. until 1:03 p.m.)

25 CHMN STAFFORD: Let's go back on the

1 record.

2 I believe we left off, Mr. Crockett, you
3 were about to begin your cross-examination of APS's
4 witness.

5 MR. CROCKETT: Yes, Chairman Stafford. I
6 might hand the mic over to Mr. Derstine to give you an
7 update on an item that came up over the lunch hour.

8 MR. DERSTINE: Yeah, when Mr. --

9 CHMN STAFFORD: Speak into the mic, please.

10 MR. DERSTINE: Oh, got it all bent up.
11 How's that?

12 CHMN STAFFORD: Much better. Thank you.

13 MR. DERSTINE: Thank you, Mr. Crockett. I
14 think that Mr. Spitzkoff was asked to at least make a
15 call or calls to confirm on the timing for the System
16 Impact Study for -- for this project. He did do that,
17 and we'll ask him if he's received any new or different
18 information in terms of when the SIS is expected to be
19 completed and released.

20 MR. SPITZKOFF: Certainly. So my team's
21 actually had their regularly scheduled meeting this
22 morning, reviewing all of the projects, and identified an
23 updated date of March 1st, 2024, for the expected
24 delivery of the studies.

25 BY MR. DERSTINE:

1 Q. And, Mr. Spitzkoff, were you given any reason
2 for the push-out to March 1st?

3 A. (MR. SPITZKOFF) Yeah, the reason is really the
4 complexity of the mitigations. 2,000 megawatts is
5 basically the equivalent of two new 500-kV lines, and
6 those lines would have to go, you know, they would have
7 to span hundreds of miles, you know, the -- the cluster
8 before this one identified two new 500-kV lines that were
9 required for the 4,000 megawatts, plus a handful of other
10 additions.

11 With those mitigations in place, and now adding
12 2,000 megawatts, in addition to that first 4,000
13 megawatts, we need additional new 500-kV lines to be able
14 to deliver that power either towards the Phoenix area or
15 over to the west, and the planning of new 500-kV lines,
16 that would be hundreds of miles in length, is quite a
17 significant undertaking.

18 Q. So this -- this project does not involve a
19 500-kV gen-tie, but the 500 -- new 500-kV facilities are
20 relevant for this cluster anyway?

21 A. (MR. SPITZKOFF) Yes, because it's the impacts to
22 the system, so 500-kV lines are the largest ones that we
23 have in the system that carry the most power, so if
24 you're looking to be able to accommodate generation on
25 the order of thousands of megawatts, your upgrades are

1 likely going to be at the higher voltages, 500-kV or
2 345-kV, maybe.

3 Q. Okay. So it's the analysis, the ongoing
4 analysis of the mitigation required for the facilities
5 that are being added through this cluster that is driving
6 the delays and pushing out the release date to
7 October 2024 --

8 MR. CROCKETT: March.

9 MR. DERSTINE: March. Got it. Okay.
10 October was the prior date, we're now into March. Got
11 it.

12 Q. Anything else you wanted to add on that?

13 A. (MR. SPITZKOFF) Nope.

14 MEMBER KRYDER: Mr. Chairman?

15 CHMN STAFFORD: Member Kryder.

16 MEMBER KRYDER: Just to build off of your
17 comments, Mr. Spitzkoff, does that piece of information
18 play into your March 1st date that you gave us a few
19 moments ago?

20 MR. SPITZKOFF: I'm sorry, does what?

21 MEMBER KRYDER: The two 500 lines that
22 you're talking about, and the complexity of them, was
23 that all played into this new date that you gave us a
24 moment ago?

25 MR. SPITZKOFF: Yes, that's why it's

1 extended out.

2 MEMBER KRYDER: Okay.

3 MR. SPITZKOFF: Is to identify feasible
4 options for new 500-kV lines. We -- we can put new
5 500-kV lines just in the computer models and run a couple
6 of different scenarios and so, yeah, that looks like it
7 works, but it might not be feasible actually in real
8 life. So what we try to do with our studies is identify
9 mitigations that can actually be accomplished instead of
10 just fictional mitigations.

11 MEMBER KRYDER: Thank you very much, that's
12 understood that you would do that. I -- my question
13 really was had that been played into the new date that
14 you gave us?

15 MR. SPITZKOFF: Yes.

16 MEMBER KRYDER: Thank you very much.

17 CHMN STAFFORD: So the mitigations that's
18 going to be required is two additional 500-kV lines?

19 MR. SPITZKOFF: That's what it looks like.

20 CHMN STAFFORD: For the current cluster
21 we're talking about?

22 MR. SPITZKOFF: Yes, the current cluster
23 that's under study that the applicant's project is being
24 studied with it.

25 CHMN STAFFORD: Okay. So does that mean

1 that of the -- how many projects -- how many different
2 projects are in this current cluster? You said it was
3 like 200 megawatts, but is that --

4 MR. SPITZKOFF: It was three or four
5 projects.

6 CHMN STAFFORD: So those three or four
7 projects would have to pay to construct two 500-kV lines
8 before they could build their projects?

9 MR. SPITZKOFF: That is correct, if all of
10 them go. Now, when those results are delivered to the
11 customers, if -- they will be -- the cost of those will
12 be allocated based on a cost causation, you know, impact
13 ratio, so some projects might have more of the cost than
14 others, and if of those four projects in that cluster if
15 some of them drop out, then we go back and study again at
16 a lower megawatt level, and maybe one or two network
17 upgrades drop off, reduces the cost a little bit, so
18 that -- you go through a couple of iterations of that
19 sometimes when you have an interconnection study that
20 results in what will likely be billions of dollars of
21 upgrades.

22 CHMN STAFFORD: It sounds like the
23 applicants are almost in a game of chicken with each
24 other.

25 MR. SPITZKOFF: That's the process and a

1 bit of how it works at the moment, yes, unfortunate.

2 MEMBER FONTES: Mr. Chairman, I have a
3 question related to that, if I may, maybe a cultural
4 reference?

5 CHMN STAFFORD: Yes, Member Fontes.

6 MEMBER FONTES: Mr. Spitzer [sic], is there
7 any of the projects been awarded already contracts in
8 this cluster that -- that you're referring to?

9 MR. SPITZKOFF: I have no knowledge of any
10 of -- any of the projects and whether they have a PPA or
11 a purchaser.

12 MEMBER FONTES: Yup, okay. Thank you.
13 That's -- that's kind of --

14 The second question I had is you said that
15 there could be significant mitigants if all of the -- the
16 projects are a go, is that -- in the cluster, but does
17 that extend to the substation too? Obviously, we're
18 focused on the potential upgrades and how that can affect
19 the environment. So I'm looking at the substation there,
20 specific within the cluster study. Do you see the
21 upgrades there, potentially?

22 MR. SPITZKOFF: It's -- it's possible the
23 substation might need expansion.

24 MEMBER FONTES: If you've got 500-kV lines
25 going through there, it's possible?

1 MR. SPITZKOFF: So the 500-kV yard may need
2 expansion. The 230 yard, which is where this project's
3 interconnection point is, I believe has some available
4 bays. But for the 500 yard, depending on where those new
5 500 lines are located, and they don't -- those new 500
6 lines don't necessarily have to come out of Cholla.

7 MEMBER FONTES: Yeah.

8 MR. SPITZKOFF: You know, it could be
9 reinforcements needed in other parts of the system
10 downstream, so I -- it's possible, but I can't tell you.

11 MEMBER FONTES: It's a little premature to
12 say the impact of the 240 -- the smaller side of the
13 substation, based upon the needs of the larger?

14 MR. SPITZKOFF: That's correct. But, you
15 know, APS does have, you know, some -- you know, some
16 good footprint, you know, the switchyards at Cholla are
17 in the same property perimeter as the generating plant,
18 so, you know, there is -- we have -- we have a good
19 amount of land in the area.

20 MEMBER FONTES: Last question here on that,
21 because we've got NERC, obviously, that we're
22 guaranteeing are looking at things, and one thing that I
23 asked you about, it's a little outrageous, if you had
24 additional 500-kV lines on there, would that inform where
25 the placement of the pole structures for the conductor on

1 the 345-kV would, based on either NERC standards or
2 operational requirements for APS that you guys have?

3 MR. SPITZKOFF: Yes, everything would be
4 looked at together, if the -- if the new upgrades are
5 coming out of Cholla and are basically coming out to the
6 south, you know, in the south or southeast direction, you
7 know, it would impact the location of the new lines and a
8 potential tie line, but, you know, I think that's one of
9 the reasons why the applicant provided a sort of a broad,
10 I think it was 147-acre corridor for the area as it
11 approaches the Cholla switchyard.

12 So my speculation at this point is all of
13 that would be able to be accommodated within that -- that
14 broader -- broader corridor.

15 MEMBER FONTES: There's two applications
16 here, there's a CEC-1 and a CEC-2. What I was focused on
17 is inside the substation, because real estate gets a
18 little tighter. So I'm just thinking that, you know,
19 you're going to make that determination in the facility
20 studies if you have a couple of 500-kVs on the final pole
21 placement there.

22 So if we're looking at impacts and
23 mitigations there, we would -- you know, the timing of
24 that would be more appropriate once you have a clear view
25 on whether those 500-kVs are going to go in or not. Is

1 that --

2 MR. SPITZKOFF: Yeah, it would be the
3 facility study that would have, you know, a more detailed
4 view at that time, but, you know, I -- I would say the
5 expectation is, you know, the area around the substation
6 is covered in CEC-2, which is the area with that broader
7 requested corridor, and, you know, though all of those
8 should be able to be accommodated within the identified
9 corridor.

10 And I guess the process is if -- if
11 something comes up where it cannot be, then the applicant
12 or APS, if it's been turned over to APS at that time, you
13 know, would have to submit an amendment to the CEC for a
14 change in the corridor.

15 MEMBER FONTES: Thank you.

16 CHMN STAFFORD: Follow-up question. So the
17 two 500-kV lines that you say that it's indicating that
18 would be the mitigation required, that assumes that the
19 4,000 megawatts in the prior cluster all get built?

20 MR. SPITZKOFF: Correct.

21 CHMN STAFFORD: So what's the time frame
22 for any of those projects to drop out and then change
23 what the resulting mitigation requirements would be for
24 this cluster?

25 MR. SPITZKOFF: Yeah, that time frame is

1 quite extensive, so they're nearing their facility study
2 now, so if we -- if we just say in the next 30 days
3 they'll get their facility study, the process is then we
4 provide them a draft interconnection agreement, then
5 there's generally a 60-day time period where you're
6 negotiating the interconnection agreement. They sign the
7 interconnection agreement, that goes into effect. And in
8 the FERC process projects have the right to suspend their
9 project for up to three years.

10 CHMN STAFFORD: That's for large
11 connections, the smaller ones don't have that, do they?

12 MR. SPITZKOFF: Correct, they do not. And
13 all of these are under the large interconnection process.

14 CHMN STAFFORD: And the "large" is defined
15 as, what, 100 megawatts or more?

16 MR. SPITZKOFF: 20 megawatts or larger.

17 CHMN STAFFORD: 20 megawatts or more?

18 MR. SPITZKOFF: Yeah.

19 CHMN STAFFORD: I had a different concept
20 of what large was. All right. That's my question.

21 Now, Mr. Crockett, are you prepared to make
22 your cross-examination?

23 MR. CROCKETT: Yes, I am. Thank you,
24 Chairman.

25 //

1 C R O S S - E X A M I N A T I O N

2 BY MR. CROCKETT:

3 Q. Mr. Spitzkoff, good afternoon.

4 A. (MR. SPITZKOFF) Good afternoon.

5 Q. And let me just say out of the gate, thank you
6 for coming up to this hearing on less than 24 hours'
7 notice, it's appreciated.

8 The applicant here, Aurora Solar, has submitted
9 a request to APS for interconnection; is that correct?

10 A. (MR. SPITZKOFF) Yes.

11 Q. Has Aurora fully complied with the
12 interconnection request process?

13 A. (MR. SPITZKOFF) Excuse me. Yes, they have.
14 And, if I might add, I can answer your first question
15 because the applicant has self-disclosed their
16 identification. Typically in the FERC process, the
17 company's name and other details are confidential, and we
18 just refer to them as the queue number that they are. I
19 just want to get that on the record.

20 Q. Okay. And I won't ask you for a queue number
21 for them, but you can confirm that they have requested
22 interconnection?

23 A. (MR. SPITZKOFF) Yes.

24 Q. And, to your knowledge, they've fully complied
25 with that part of the process?

1 A. (MR. SPITZKOFF) Yes.

2 Q. And is there anything, to your knowledge, that
3 APS is waiting on from Aurora Solar as part of the
4 interconnection process?

5 A. (MR. SPITZKOFF) No.

6 Q. Okay. I wanted -- while I'm thinking about it,
7 I wanted to follow up on one thing that came up earlier
8 today and that's the West Lake CEC, was it West Lake?

9 A. (MR. SPITZKOFF) West Camp.

10 Q. West Camp, there we go. And there were two
11 options that were approved in the CECs. I had -- I had
12 received earlier today a communication from the attorney
13 representing the West Camp entity who indicated that
14 there had not been a final decision made on which of
15 those two options they were selecting. Do you have any
16 information that would contradict that information?

17 A. (MR. SPITZKOFF) I do not.

18 Q. And, Mr. Spitzkoff, are you familiar with the
19 line siting process?

20 A. (MR. SPITZKOFF) Generally familiar, yes.

21 Q. Just take a moment and describe how you're
22 generally familiar with the process.

23 A. (MR. SPITZKOFF) I've been a witness in maybe 10
24 or so siting cases at this point. I've participated,
25 either as a witness or a support to a witness in cases

1 for, I would say, going on close to 20 years at this
2 point. And one of the teams that reports to me is our
3 siting -- siting team, whose job it is is to perform the
4 siting process, oversee the environmental studies, the
5 public outreach, put together the applications, and make
6 the application requests.

7 Q. Are you generally familiar with the statutes in
8 ARS Title 40, Sections 360.01, going forward?

9 A. (MR. SPITZKOFF) I'm familiar with them in the
10 broad sense. I couldn't tell you, you know, A, B, C, D,
11 but in the broad sense I know -- I'm familiar with what
12 the requirements are.

13 Q. And I'm going to ask you a few questions about
14 that, and I'm not asking you to express any kind of a
15 legal opinion, I'm just asking you to express your
16 opinion as someone who's been around this process in
17 Arizona for, I think you testified about 20 years.

18 Are -- are you aware whether -- you're aware of
19 ARS 40-360.06, which identifies the factors that are to
20 be considered by this committee in approving or denying a
21 certificate of environmental compatibility?

22 A. (MR. SPITZKOFF) Yes.

23 Q. Okay. And have you had an occasion to review
24 that statute recently?

25 A. (MR. SPITZKOFF) From time to time.

1 Q. Okay. And is it your understanding that one of
2 the factors that the Line Siting Committee considers is
3 whether or not a System Impact Study has been completed
4 for a particular applicant?

5 A. (MR. SPITZKOFF) Well, so -- so I think your
6 question is a little confusing. You asked whether the
7 Line Siting Committee considers that. I've -- that has
8 been brought up in past hearings. I don't believe it's
9 enumerated in the statute, though.

10 Q. What is your -- what is your opinion on the Line
11 Siting Committee's role in evaluating a System Impact
12 Study?

13 MR. DERSTINE: I'm going to object to the
14 form.

15 Mr. Spitzkoff, you're free to answer it, to
16 the extent you can.

17 CHMN STAFFORD: I guess I will sustain your
18 objection.

19 If you could please rephrase the question,
20 Mr. Crockett.

21 MR. CROCKETT: Yeah.

22 Q. So, well, Mr. Spitzkoff, do you believe that the
23 Line Siting Committee has a role in determining whether
24 or not an interconnection is safe and reliable?

25 MR. DERSTINE: Same objection. But I think

1 the witness can answer, based on his understanding of the
2 federal interconnection procedures that he's testified to
3 this morning, and to the extent he has an opinion about
4 whether the -- this committee has a role, in addition to
5 the large generator interconnection procedures, I think
6 he can -- you can answer it, if you can.

7 CHMN STAFFORD: I'll sustain that -- I
8 think -- Mr. Crockett, are you trying -- I guess it seems
9 like you're asking for a legal conclusion. Are you
10 asking -- can you, in terms of whether or not he -- I
11 guess it's his opinion of whether or not this committee
12 has a role or has a -- or that has a place in its
13 evaluation.

14 MR. CROCKETT: Well, okay. So let me --
15 let me try a different question.

16 Q. Do you have an understanding of what the purpose
17 is of the line siting rules -- statutes and rules?

18 A. (MR. SPITZKOFF) Yes.

19 Q. What's your understanding of the purpose of the
20 line siting process in Arizona?

21 A. (MR. SPITZKOFF) I would say to review the
22 environmental impacts of the construction of new
23 facilities, 115-kV or higher or 100 megawatts for thermal
24 plants. The, you know -- the environmental impacts
25 generally being visual, noise, effect on land use, those

1 sorts of factors.

2 Q. And what -- what is the -- what is the
3 relevance, in your opinion, of the System Impact Study in
4 the objectives the Line Siting Committee has in
5 evaluating a line siting application?

6 MR. DERSTINE: I'll object to the form.
7 Maybe counsel can rephrase it as, you know, more of an
8 open-ended question in terms of whether Mr. Spitzkoff has
9 an opinion of whether it does have a role or not.

10 CHMN STAFFORD: Sustained.

11 Mr. Crockett, it seems like you're asking
12 him to give his opinion on whether or not that
13 reliability is a relevant factor for this committee to
14 consider, I don't -- as a fact witness and a subject
15 matter expert on transmission interconnection, I don't
16 think he's prepared to answer that question.

17 MR. CROCKETT: Okay. Well, let me -- let
18 me ask a theoretical question of him. Let me try one
19 more time.

20 Q. So, Mr. Spitzkoff, how -- how would the results
21 of a System Impact Study affect a line siting case?

22 A. (MR. SPITZKOFF) I would say there would be
23 little to no impact, a System Impact Study does not
24 consider environmental factors at all. It's a study to
25 determine the reliability impact to the transmission

1 system.

2 Q. So does the -- does APS consider, in performing
3 a System Impact Study, a certificate of environmental
4 compatibility that may be issued for a project?

5 A. (MR. SPITZKOFF) No, that plays no role in the
6 System Impact Study.

7 Q. Does that come -- does that come up in the
8 facilities study?

9 A. (MR. SPITZKOFF) It does not come up in any part
10 of generator interconnection process from the FERC
11 process of getting an interconnection agreement.

12 Q. Okay. And would it be your -- do you know
13 whether the -- the impact of a System Impact Study on
14 this process would be, for example, that you determine
15 that a line can't come into a facility from a particular
16 direction and the line has to be moved, and then that
17 might implicate environmental studies on a new area, as
18 opposed to the one that was included in the application?

19 A. (MR. SPITZKOFF) So that's a possibility, and
20 if -- if a requested corridor is narrow, you know, the
21 System Impact Studies could identify, you know, the
22 direction a line comes into a sub could, you know, affect
23 the best way to do that, you know, very particular
24 routing, so if you have a narrow corridor that has been
25 requested, you know, there could be some concern of going

1 outside of that corridor, which generally is why if you
2 haven't done pre-studies or know the specific factors on
3 the ground, you -- and the applicant will request as wide
4 a corridor as reasonable to allow for, you know, the
5 variation of a couple of hundred feet to the one way or
6 another.

7 Q. And would you agree that's what the applicant
8 has done in this case?

9 A. (MR. SPITZKOFF) I would agree.

10 Q. At least with respect to proposed CEC number 2?

11 A. (MR. SPITZKOFF) Yes.

12 Q. If -- does -- does APS or its consultants that
13 are performing a System Impact Study ever conclude that a
14 particular application could never be safely or reliably
15 interconnected to the grid?

16 A. (MR. SPITZKOFF) No, that is not one of the
17 allowed outcomes in the FERC process, the answer is
18 always you can connect, but here's what you have to do to
19 mitigate the impacts. There's no answer that is no, you
20 cannot connect.

21 CHMN STAFFORD: But let me interject here,
22 but the answer is it's going to cost you \$2 billion more
23 than you have in your budget to build this project, so
24 that's what it's going to take, so I guess they don't
25 tell them they can't, they just put prices on it that

1 effectively eliminate them from being able to comply with
2 that, correct?

3 MR. SPITZKOFF: Yes.

4 CHMN STAFFORD: Okay. Thank you.

5 Please proceed, Mr. Crockett.

6 BY MR. CROCKETT:

7 Q. And, Mr. Spitzkoff, you don't know how any
8 particular applicant will respond to your conclusions
9 regarding mitigations that may be required to build a
10 project; is that right?

11 A. (MR. SPITZKOFF) That's correct.

12 Q. And in your experience, have applicants gone
13 forward with projects when there's been mitigations that
14 are required?

15 A. (MR. SPITZKOFF) Yes, for sure.

16 Q. Is that unusual or is that common?

17 A. (MR. SPITZKOFF) It's common. Especially in the
18 last couple of years, there's -- there's typically
19 mitigations required, given how large our queue is and
20 how many projects have already been studied.

21 Q. And you haven't put a price tag on the cost of
22 the mitigations that may be required, based on the System
23 Impact Study for the current cluster?

24 A. (MR. SPITZKOFF) No, we have not.

25 Q. If the Line Siting Committee were to approve the

1 CECs that are requested by Aurora Solar, is there a
2 chance that Aurora Solar could interconnect its project
3 to the APS grid in a way that raises either reliability
4 concerns or safety concerns?

5 A. (MR. SPITZKOFF) No, there is not.

6 Q. And please explain why that's not a possibility.

7 A. (MR. SPITZKOFF) I believe my earlier testimony,
8 you know, covered that, the -- the studies that we
9 perform are to identify, you know, any potential adverse
10 impact. I mean, I guess being an engineer I can't -- I
11 try not to talk in absolutes, so it's painful right now,
12 but generally the answer is no.

13 Q. And talking for a moment now about the new
14 target date for completing a System Impact Study for this
15 cluster, is that March 1, 2024, date a firm date?

16 A. (MR. SPITZKOFF) Nothing's a firm date until the
17 study's actually delivered.

18 Q. So that March 1st date could slip also; is that
19 true?

20 A. (MR. SPITZKOFF) It's certainly possible.

21 CHMN STAFFORD: But you would never be able
22 to interconnect, the applicant would never be able to
23 interconnect until that study was completed and
24 additional steps beyond that before they could actually
25 connect to the grid?

1 MR. SPITZKOFF: Correct. You have to have
2 an interconnection agreement in order to connect to the
3 grid. And just to expand on that if it -- I don't know
4 if it provides any value, but theoretically if an
5 applicant builds their whole project and builds a
6 gen-tie, any applicant not just this one, APS, if they're
7 connecting into APS, we're the ones that make that final
8 connection, so we -- you know, we have that gate key of,
9 you know, someone can't just go out there and build
10 something and connect to our system without our approval
11 on that.

12 CHMN STAFFORD: Right.

13 BY MR. CROCKETT:

14 Q. And with respect to the execution of a large
15 generator interconnection agreement, does the existence
16 of an offtaker contract, a PPA and a LGIA, does that
17 necessarily mean that project will move forward?

18 A. (MR. SPITZKOFF) No, it does not.

19 CHMN STAFFORD: Do they ever move forward
20 without one? Are any of these projects built as like a
21 true merchant plant that plans to sell on the open market
22 without a PPA?

23 MR. SPITZKOFF: I believe there have been
24 and with APS being right on the border of California ISO,
25 the ISO is generally a market, and you don't necessarily

1 have a specific PPA. You don't have to have a specific
2 PPA, so --

3 CHMN STAFFORD: Theoretically, they could
4 just get into the EIM, couldn't they, and dispatch that
5 way?

6 MR. SPITZKOFF: Yes.

7 CHMN STAFFORD: Without any kind of PPA?

8 MR. SPITZKOFF: Yes, they could.

9 CHMN STAFFORD: Okay. Wanted to clarify,
10 thank you.

11 Sorry to keep interrupting Mr. Crockett,
12 please proceed.

13 MR. CROCKETT: Thank you, Chairman.

14 Q. So, Mr. Spitzkoff, if you would now I would like
15 to look at the proposed CEC corr- -- or the proposed
16 corridor for CEC number 2, and probably the easiest way
17 to do that is to look at the back side of the placemat
18 that you have in front of you.

19 Do you have that?

20 A. (MR. SPITZKOFF) I do.

21 Q. So when we're looking at this exhibit, which is,
22 I'll just get the exact -- it is Exhibit OM-7B, for the
23 record, but it's on the back of the placemat, so the APS
24 substation, the Cholla Substation, is highlighted there
25 in the dark gray on this map. You may not know the

1 answer to that?

2 A. (MR. SPITZKOFF) That's what it appears to be.

3 Q. Okay. All right. Well, if you'll -- if you'll
4 assume, for the purpose of these discussions, that
5 that's -- that's the case, and the corridor that's being
6 proposed around that substation is in kind of the medium
7 gray on this map.

8 Do you see that?

9 A. (MR. SPITZKOFF) I do.

10 Q. And does that corridor provide for some
11 flexibility in terms of finding a path from the Obed
12 Meadow Solar Project into the Cholla Substation?

13 A. (MR. SPITZKOFF) To the best of my knowledge
14 today, I -- I feel that's a -- you know, an adequate
15 request at this time.

16 Q. Given where we are in the SIS process?

17 A. (MR. SPITZKOFF) Yes.

18 Q. Do you believe that requesting a corridor like
19 this reduces the -- the likelihood that the SIS could
20 produce results that necessitate a change to the CEC?

21 A. (MR. SPITZKOFF) Can you start that question
22 again, I'm sorry?

23 Q. Yeah, it was a long and -- long question.

24 I'm just wondering, by proposing this larger
25 corridor around the substation site, does that reduce the

1 chance that the System Impact Study would require either
2 APS or Aurora Solar to come back to the Commission for a
3 modification of the CEC?

4 A. (MR. SPITZKOFF) Yeah, I would say it definitely
5 reduces the probability.

6 Q. And would you elaborate on why you believe
7 that's the case?

8 A. (MR. SPITZKOFF) Just given the expanse of the
9 request.

10 Q. Am I right in assuming that that just gives the
11 applicant more options of getting in and these options
12 have already been studied as part of the environmental
13 studies that support the application in this case?

14 A. (MR. SPITZKOFF) Not sure what you mean by "the
15 options," I don't think a specific option has been
16 identified on the dark gray.

17 Q. Right. I mean, I guess it's an infinite set of
18 options at this point because we don't have the System
19 Impact, but this typically would provide a substantial
20 amount of room for the applicant to work with APS to find
21 a path into the Cholla Substation, would you agree?

22 A. (MR. SPITZKOFF) Yeah, I would say it provides
23 ample opportunities to find routes in.

24 Q. And I guess where I was trying to go earlier
25 with this, and I wasn't very successful, but to the

1 extent that the SIS identified an issue which
2 necessitated that somehow we had to access this
3 substation in a different way, expand potentially the
4 Cholla Substation, that would potentially implicate new
5 environmental studies associated with a new -- a new
6 corridor or a new route; is that right?

7 A. (MR. SPITZKOFF) It could.

8 Q. And that -- and that would implicate this
9 process here?

10 A. (MR. SPITZKOFF) It could.

11 Q. But if the applicant ends up routing the gen-tie
12 within this corridor, if it's ultimately approved by the
13 Line Siting Committee, is it likely that the results of
14 the System Impact Study would change that -- that -- that
15 outcome?

16 A. (MR. SPITZKOFF) I would characterize that as a
17 low probability.

18 MR. CROCKETT: I think that's all I have.
19 Thank you, Mr. Spitzkoff.

20 CHMN STAFFORD: Mr. Derstine, any redirect?

21 MR. DERSTINE: Nothing. Thank you.

22 CHMN STAFFORD: Any questions from members?

23 (No response.)

24 CHMN SPITZKOFF: Mr. Spitzkoff, it appears
25 that you're free to go.

1 MR. SPITZKOFF: Thank you.

2 MEMBER GOLD: Thank you very much.

3 CHMN STAFFORD: Thank you for coming to
4 testify for the committee today. I appreciate it.

5 All right. Members, I guess so it now
6 falls to us to decide what our course of action should be
7 to proceed. I think this testimony has been very helpful
8 to us in getting perspective on how this System Impact
9 Study and the interconnection process with the utilities
10 works or doesn't work, depending on the case. I'd like
11 to hear from my fellow members what -- how they care to
12 proceed with this, if they wish to -- if they wish to
13 proceed today with examining the CEC or some other option
14 perhaps. We've heard a lot of testimony today and I
15 think, myself, personally, would prefer not to vote on
16 the CECs today.

17 I would like to review the transcript and
18 the record, and I think perhaps maybe we should add
19 additional language to the CECs to clarify how this is
20 working, because the old way of assuming that we have a
21 System Impact Study for Staff to evaluate prior to
22 issuance of the CEC, that doesn't seem like it's going to
23 be possible in the vast majority of these cases, for
24 certainly anybody who is going to connect to the APS
25 system.

1 MEMBER LITTLE: Mr. Chairman?

2 CHMN STAFFORD: Yes, Member Little.

3 MEMBER LITTLE: I agree with you. I think
4 that -- I have always had concern when there was not a
5 System Impact Study for Staff to review, both when I was
6 on the Staff side and when I began working here. I think
7 it's in the record that the cases that have been sited
8 where the CEC was issued and there was not a SIS, or the
9 System Impact Studies had not been provided, I voiced my
10 concern at that time.

11 However, I also recognize that we -- I'm
12 not sure that I personally know where the line should be
13 drawn with the responsibilities of this committee. I
14 think that knowing -- having assurance from technical
15 people who have done the studies and looked at the
16 studies is important in my representing the public or
17 important to my representing the public in siting.

18 The gen-ties are all we have authority over
19 with these -- this new type of generation that's coming
20 in, and I think that it -- that we should be looking at
21 that. However, I also recognize that perhaps there --
22 there is a line there. And we also, in addition to all
23 of that, need to consider what we've heard today, which
24 is that there are some real problems with utility
25 planning. The way that, you know, the way the system has

1 evolved, and we need to work out something that works for
2 the committee, the Commission, and the applicants and the
3 utilities, if the utility is not the applicant. And I
4 think it -- I think it deserves a little more
5 consideration.

6 CHMN STAFFORD: Well, we have the option to
7 have the applicant file a brief to explain, you know, why
8 it's met its burden, point to the evidence in the record
9 and show why the system -- to argue why and explain why
10 the System Impact Study is not required to be completed
11 before issuance of a CEC, other than the fact that it's
12 happened three times in the past.

13 MEMBER MERCER: Mr. Chairman?

14 CHMN STAFFORD: Yes, Member Mercer.

15 MEMBER MERCER: I'm in agreement with you
16 and Member Little. Being fairly new in this -- in this
17 committee and not having the expertise that Member Little
18 has or Member Fontes, just listening to the witness, I
19 understand, you know, the cost that the applicant has
20 already incurred, and we have been going back and forth,
21 is it going to cost them any more money? Is it going to
22 impact their application? Right now I'm -- I'm just
23 sitting here and it's, like, it's not for me to decide
24 whether it's going to -- to impact them in either a
25 financial or in a more detrimental way that the project

1 is not going to be approved and I'm not ready to vote
2 on -- on it.

3 CHMN STAFFORD: All right. Well, pursuant
4 to AAC R14-3-213(b), it says, "Upon request of the
5 majority of the committee, the parties to the
6 certification proceeding may be requested to file briefs
7 with the committee." So that's -- we can get a motion.

8 MEMBER FONTES: Mr. Chairman?

9 CHMN STAFFORD: Yes, Member Fontes.

10 MEMBER FONTES: Thank you, I appreciate the
11 opportunity here. You made a comment at the -- your
12 introductory comments with respect to, you know, the
13 Corporation Commission's view on this on whether we have
14 to have hard technical inputs to inform the CEC. My
15 personal opinion is yes. I would say that the rule
16 possibly, you know, from your authority up to the full
17 commission, we've got this FERC/no FERC that Mr. Crockett
18 and the gentleman from APS, the attorney, artfully
19 described and that's described in the Power Magazine.

20 I think in light of that, it's timely to
21 revisit the sequencing link so that we can possibly
22 inform developers and also utilities on what -- what, you
23 know, our role here and how that serves as a meaningful
24 and timely input to our evaluation, so that we can make a
25 determination on CECs in the future with respect to where

1 the -- whether the SIS is required or not going forward.
2 So that's one thing I wanted to observe for you.

3 The second thing is I think this is a good
4 project for Avangrid, and thank you, Mr. Crockett, for
5 all your testimony, it's very useful, but when I look at
6 this in examining what should be, you know, a gray area
7 or remain silent in a lot of the statutes, I look for
8 precedent, and one of the precedents I looked for was the
9 question I asked APS, what do you do with your own
10 projects? And if they're siting a recent project within
11 the last 24 months where they waited to have a System
12 Impact Study in order to move forward with its CEC
13 application, I would look at that as precedent.

14 Second is, you know, there's a lot of other
15 projects coming in here. We don't know what those
16 variables are as part of the cluster. Those other
17 commercial projects that were referenced, we don't even
18 know what those attributes are within the clusters that
19 they were studying. Maybe they were a lot more
20 straightforward, maybe they weren't, but we don't have
21 information to advise on that.

22 I will point out that all those projects
23 did have commercial offtakes, so they were a lot further
24 along the lines than what Member Mercer referred to as
25 the investment that the developer made. So here we don't

1 see a parallel to that, in terms of how far are they.

2 And, lastly, the applicant hasn't applied
3 for a RFP. There's no open bid right now. So if we wait
4 until we're better informed until March, that doesn't
5 really hold the applicant up on what I heard in the
6 testimony.

7 CHMN STAFFORD: We can't wait until March
8 to act, Member Fontes. The deadline for this committee
9 to act on this application is December 20th of 2023.

10 MEMBER FONTES: I understand. I defer back
11 to you on that. So I don't have an answer for that, or
12 I'm just observing as it relates to why we have some
13 unknowns, if you will, and it's hard for us to make an
14 informed decision on the CEC at this time, so thank you.

15 CHMN STAFFORD: Thank you, Member Fontes.

16 MEMBER FRENCH: Mr. Chairman?

17 CHMN STAFFORD: Yes, Mr. French -- Member
18 French.

19 MEMBER FRENCH: Yes, I've heard a fair
20 amount of comments and testimony reflecting on the
21 factors to be considered in the issuance of the CEC by
22 the committee, and I just wanted to point out in 360.06,
23 specifically paragraphs 7 and 8, and possibly maybe even
24 have someone read those into the record and have a little
25 bit of discussion amongst the committee members on what

1 the verbiage of those two paragraphs are and what they
2 mean for us.

3 CHMN STAFFORD: Are you speaking about ARS
4 40-360.06(a)? Is that the statute you're referring to?

5 MEMBER FRENCH: Yes.

6 CHMN STAFFORD: I think you're referring
7 to -- I think you meant to say 7, "The technical
8 practicability of achieving the proposed objective and
9 previous experience, equipment, and methods available for
10 achieving a proposed objective," and then number 8 is --

11 MEMBER FRENCH: Yes, that's what I'm
12 referring to.

13 CHMN STAFFORD: And then number 8 has to do
14 with the estimated costs of the facilities when compared
15 to the costs, as proposed by the applicant as compared to
16 the cost with additional conditions imposed by the
17 committee. And then number 9 is the additional factors
18 that require consideration under applicable federal and
19 state laws pertaining to any such site. So can I --

20 MR. CROCKETT: Chairman Stafford, before
21 you ask for a motion just could I make a couple of
22 comments here?

23 CHMN STAFFORD: Certainly, Mr. Crockett.

24 MR. CROCKETT: First of all, I'd like to at
25 some point hear from you how you see the process working

1 if we were to submit a brief. I mean, if we would come
2 back before this committee at an open meeting, for
3 example, a Line Siting Committee open meeting, I'd like
4 to understand how you see that process working.

5 And then the other comment, I guess, I do
6 have concerns that by not moving forward on this
7 application that it will have an impact. My
8 understanding is there may be some other projects coming
9 on your hearing calendar in the near future where there
10 are not System Impact Studies. And I -- and I wonder,
11 given the deadline for acting on the application being in
12 December, we still won't have a System Impact Study in
13 December. You won't have any more information than than
14 you do now. We can maybe brief the legal issues. We've
15 talked around that today that some of the cases I've
16 submitted, we can do a deeper dive on that, some of the
17 line siting cases I've talked about, but I'm not sure
18 that things will look much different in a month or two or
19 three from now, and we can't wait until March, and -- and
20 March isn't even a firm date, and I do worry about the
21 chilling effect this will have on other applications and
22 projects if -- if these cases can't move through the Line
23 Siting Committee, so I just wanted to put those comments
24 out there.

25 CHMN STAFFORD: Thank you, Mr. Crockett. I

1 appreciate your concerns.

2 The way I would envision it working would
3 be the same way it would work for the hearings before the
4 hearing officer. The hearing would take place, the
5 record would be closed, the party would file a brief, and
6 then at a subsequent time within the time frame set by
7 the statute, the matter would be set on an agenda before
8 the committee to meet, like an open meeting at the
9 Commission does, and then they would vote on however many
10 items on the agenda. The hearing officer -- the hearing
11 officer case, this case, whatever -- whatever cases
12 hadn't been voted on at the conclusion of the hearing,
13 because under the statute, we have still, I think I
14 pointed out several times, until December 20th of this
15 year to act on this application.

16 So the tradition of the committee, though,
17 is to set it where we vote at the conclusion of the
18 hearing. Typically these hearings would have been done
19 yesterday morning. But because of this issue and the
20 confusion and the concerns about the lack of a System
21 Impact Study, I think it's appropriate for this matter to
22 be briefed, the record will be closed today, and the
23 subject will be briefed. And then I'd issue probably a
24 procedural order or the agenda for setting the committee
25 open meeting to consider the CECs and vote on them at

1 that.

2 After we've all had a chance to review the
3 transcripts, there's a lot of information there. I
4 haven't had a chance to fully digest the article that was
5 provided. I found another article about -- that talked
6 about these FERC rule changes. I understand there's
7 going to be some penalties involved for failing to meet
8 the deadline to complete the System Impact Study under
9 the Order 22 -- 2023 [sic].

10 So I think, and this is the first case that
11 I've been chair where there hasn't been a System Impact
12 Study. So I think we need to, as the committee, kind of
13 figure out the course forward. And I think I would like
14 to have a CEC that has additional language in it
15 addressing this issue soundly for the Commission to vote
16 on, and if they approve, then we'll know what's going to
17 happen going forward in these types of cases, clearly.

18 MR. CROCKETT: And, Chairman Stafford, is
19 there is a schedule yet for Line Siting Committee open
20 meetings in maybe September or October or November?

21 CHMN STAFFORD: It would be -- I believe
22 the first one it could be potentially in September. It
23 will depend on -- because right now as it stands we only
24 have one hearing currently set before the hearing
25 officer, to achieve the kind of scale it would make sense

1 to have the open meeting address more than one item. So
2 certainly we could set this matter to where the briefs
3 could be filed, we could be -- we could have read them,
4 reviewed the transcript, and be prepared to vote at that
5 meeting, at that open meeting that would address, because
6 we're going to have to do that for the hearing officer
7 matter, because it doesn't require a quorum of the
8 committee or it could just be a hearing officer to have
9 the hearing, but it takes the majority to issue the CEC.

10 So my thought -- yeah, my thought is that
11 when we're going -- going forward, we're going to start
12 having meetings for the committee to consider multiple
13 items. This could be set on with that one. And then
14 going forward, I think after this case the committee will
15 have a handle on this and won't have a -- will know
16 what -- what to do and how things should proceed in
17 situations like this going forward.

18 MR. CROCKETT: And, Chairman Stafford, if I
19 could impose upon you to ask you a couple more questions.
20 Do you envision that -- you'd mentioned that you would
21 like to see some additional language, would you be
22 looking for the applicant to propose that, or would the
23 members of the committee propose, for example, like
24 amendments that we see in items that come before the
25 Arizona Corporation Commission, recommended orders, is

1 that how you see this working?

2 CHMN STAFFORD: I think either way would be
3 appropriate, I mean, if you wanted to propose language in
4 your brief, you're certainly welcome to do so. My -- and
5 if the -- my fellow members are free to try to come up
6 with any kind of language that they think, they wouldn't
7 have to file a formal amendment like the Commission does,
8 but certainly as we go through the provisions, they could
9 suggest language, you know, if they have it handy in a
10 written-out form, it could certainly aid the discussion,
11 I think, than ad libbing it live.

12 MR. CROCKETT: Yeah, sure.

13 CHMN STAFFORD: So I think -- and I
14 certainly -- when I reviewed the brief, I certainly
15 intended to analyze it and I think I would myself try to
16 come up with some kind of language that would address my
17 concerns, and then share it with the committee to see if
18 that also assuages their fears or concerns, I'd say.

19 MR. CROCKETT: Given the broader
20 application, potentially, of this case, would you allow
21 other interested parties to file AMICUS briefs in the
22 docket on this?

23 CHMN STAFFORD: I don't know if I'm going
24 to open it that much, but I'll certainly allow APS to
25 file a brief, if they so chose to detail. I think that

1 that would be particularly helpful if APS did, because
2 it's your connection queue which is the most heavily
3 burdened by this, with 75 gigawatts -- 75 gigawatts of
4 projects in your queue, I mean --

5 MEMBER FONTES: Mr. Chairman?

6 CHMN STAFFORD: Yes, Member Fontes.

7 MEMBER FONTES: I'd extend that to all
8 Arizona-based ACC utilities, all utilities, because TEP,
9 UniSource, SRP, have got the same issues.

10 CHMN STAFFORD: Members, do you have a
11 preference on that?

12 MEMBER MERCER: I agree. I think it's a
13 good idea to include other utilities to comment and, you
14 know, help with this issue because it needs to be
15 resolved.

16 CHMN STAFFORD: Yeah. Okay. I agree, I
17 think it would be appropriate to allow --

18 MEMBER FONTES: I think --

19 THE REPORTER: I'm sorry. Hold on.

20 CHMN STAFFORD: One at a time, please.

21 I think -- I think I've changed my mind. I
22 think we should open it up. We should let any -- any
23 utility or applicant who appears before this committee to
24 file a brief to address this issue. And I think --
25 because I think it would help, you know, especially for

1 this committee if we could -- if we tee this issue up,
2 and then address it ourselves and hand that off to the
3 Commission and they can definitively address it and so
4 that would set the policy going forward, for example, if
5 we had certain -- we want to have new findings of facts
6 and conclusions of law conditions that are included in
7 every -- in every CEC where the System Impact Study has
8 not yet been completed, separate and apart from ones that
9 have.

10 And I think we can -- I think we need to
11 kind of look at that holistically as a whole between all
12 these things because this is a problem that will continue
13 to assert itself, unless this whole new FERC rule change
14 significantly improves the situation, but again, I'm not
15 holding my breath on that, I'm hoping it will make
16 probably incremental progress, but it's not going to --
17 it's not going to change the way this whole -- everything
18 works. I mean, there's still -- you're going to have
19 multiple projects competing for a limited number of
20 spaces to interconnect.

21 And it's going to, you know, it's just
22 going to keep happening over and over again until we take
23 care of it and address it and have a plan and a
24 consistent approach going forward.

25 MR. CROCKETT: So, Chairman Stafford --

1 MEMBER GOLD: Mr. Chairman?

2 CHMN STAFFORD: Yes, Member Gold.

3 MEMBER GOLD: Just a comment, again, new
4 member. Right now this committee is being reactive, what
5 you're suggesting we make changes so in the future, we
6 and every other committee like us, can be proactive. How
7 quickly can something like this be accomplished?

8 CHMN STAFFORD: I think it will depend --
9 I'm going to assume everything goes according to Hoyle
10 here and that the parties file briefs, they adequately
11 articulate the problem, and how we can approach it, the
12 importance of the System Impact Study and its role in
13 this Commission's decision-making process and that so
14 when we move forward, we'll be confident that -- because
15 we'll issue the CEC, assuming that everything -- and then
16 that gets approved by the Commission, if the language
17 that we've added addresses this and kind of going
18 forward, and they approve that, you know, they could even
19 include in the order that, yes, this is what we do for
20 System Impact Studies that are not completed prior to
21 CEC, and that would kind of set the policy for the
22 Commission, the committee going forward.

23 And so this -- so in future hearings when
24 they come in here without a System Impact Study, we don't
25 repeat this process every time, and we don't have some

1 kind of confusion or concerns we need to get those -- I
2 think it would be helpful for everybody in the entire --
3 anybody who has had to site or plan a line in this state
4 to have a course forward that the committee and the
5 Commission have blessed, and that's what -- how we would
6 proceed.

7 And I think this -- this case, you know,
8 apparently there's been three other cases where they've
9 issued CECs without a System Impact Study, but again, I
10 wasn't the chair then and so I think we should address
11 this head on and get it resolved and so it would be clear
12 what's expected from applicants going forward.

13 MEMBER FONTES: Mr. Chairman, just an
14 observation for the record, as you consider that. There
15 is a number of transmission lines, high voltage, 500-kV
16 and above is what I'm thinking about, that will
17 transverse Arizona that will not have an interconnect,
18 that will still be subject here, and interconnect into
19 CAISO or the Southwest Power Pool, California Independent
20 Systems Operator is CAISO. And those are subject to the
21 Western Electric Coordination Council path rate, so
22 that's very -- it's different, but it's a wires-to-wires
23 path evaluation that's a very similar process to the
24 interconnect that we know and that is the topic here that
25 leads to the System Impact Study.

1 So as we look at having interested parties
2 comment on that, I might suggest not only interconnect,
3 but any kind of path rating that would be subject to
4 inform this committee in the language that is -- is
5 drafted up in that. Hope that's helpful.

6 CHMN STAFFORD: Yeah, I appreciate your
7 concern, but I think that we should --

8 MEMBER FONTES: The Atlas Solar --

9 CHMN STAFFORD: -- confine it to the --
10 confine it to the facts of this case, because that's not
11 an issue in this case. The issue is whether the System
12 Impact Study was completed, when it's going to be
13 completed, and apparently now it's not even possible for
14 it to be completed before the deadline for this committee
15 to act passes, because my original hope was that we would
16 get a firm commitment that we would have a System Impact
17 Study by October 1st and then by October 15th we'd have
18 Staff's evaluation. That would give us plenty of time to
19 vote on the CEC with that information before us.

20 Now, today, we've have heard from APS that
21 is impossible. I'm getting a signal. I think --

22 THE REPORTER: I'm fine.

23 CHMN STAFFORD: Okay. Okay. I thought we
24 were going to take a break here for a second. Okay. But
25 yeah, I think that -- I got distracted.

1 MR. DERSTINE: Mr. Chairman, members of the
2 committee, I think it -- your idea is a good one to open
3 it up to other possibly future applicants, other
4 utilities in Arizona, and I guess I would also suggest
5 that and make it clear that Staff may want to weigh in on
6 this issue as well, and I think there is the rulemaking
7 docket has just been opened up for the Rules of Procedure
8 for this committee, and so it may be an issue that could
9 be folded into that process, but I think, at a minimum,
10 Staff would want to know that they're invited to weigh in
11 and state their position if they have one on this issue.

12 CHMN STAFFORD: Yes, definitely. Thank
13 you, Mr. Derstine.

14 MR. DERSTINE: Yes.

15 MEMBER LITTLE: Mr. Chairman?

16 CHMN STAFFORD: Yes, Member Little.

17 MEMBER LITTLE: Thank you, Mr. Derstine.

18 Today there was a Staff meeting and that docket was
19 discussed. We were all here so we don't have any idea
20 what they discussed, but I agree, we are a committee of
21 the Commission, and need to keep that in mind also.

22 CHMN STAFFORD: All right. With that being
23 said can I get a motion for briefs?

24 MEMBER LITTLE: I so move.

25 CHMN STAFFORD: Do we have a second?

1 MEMBER GOLD: Second.

2 CHMN STAFFORD: Discussion?

3 (No response.)

4 CHMN STAFFORD: All in favor say "aye."

5 (A chorus of ayes.)

6 CHMN STAFFORD: Opposed?

7 (No response.)

8 CHMN STAFFORD: Hearing none, the motion
9 passes. All right. So for a briefing schedule, the
10 transcript will be available within three days.

11 Mr. Crockett, what do you feel is an
12 appropriate deadline for you to file briefs? I think we
13 just file an initial brief. I don't think there's going
14 to be a need for a reply brief. I think a single round
15 of briefs should be adequate.

16 MR. CROCKETT: Before I respond to that
17 question, do you, Chairman Stafford, do you envision
18 filing a procedural order in the docket that orders
19 briefing and it opens it up to other parties?

20 CHMN STAFFORD: That's a possibility.
21 Initially, you know at the end of a hearing, the parties
22 file briefs, but I think in order to let anybody know
23 we'd have to probably issue a procedural order to let
24 them know that that's -- that other parties are invited
25 to weigh in.

1 MEMBER LITTLE: I think so.

2 CHMN STAFFORD: I think when we send that
3 to the Commission Staff, they could make -- the issue is
4 that people who aren't following this particular docket
5 won't know what's going on in it.

6 MR. CROCKETT: Right. That's my concern.

7 CHMN STAFFORD: They'll have no clue what's
8 happening, other than APS and you, and I guess whomever
9 you tell would know.

10 MR. CROCKETT: Yeah, and I think the large
11 utilities, they'll know about this, and I think there's a
12 pretty small universe of lawyers that practice with the
13 applicants, so I think we can get the word out on this,
14 but a procedural order might be helpful in terms of, you
15 know, just identifying maybe what -- what the specific
16 legal issues you'd like addressed in the brief are, and
17 I'm just going to look at my calendar.

18 MR. DERSTINE: Maybe to jump around Labor
19 Day that shows up early in September -- September
20 the 8th, which is the Friday after the Labor Day week,
21 that gives us a little more than 20 days.

22 MR. CROCKETT: That -- okay. I think that
23 would work for the applicant.

24 CHMN STAFFORD: All right.

25 MEMBER LITTLE: We have hearings all that

1 week.

2 CHMN STAFFORD: Beg your pardon?

3 MEMBER LITTLE: We have hearings all that
4 week. Not that that would matter.

5 CHMN STAFFORD: No, that's fine. We'd have
6 something to read when we got back.

7 MEMBER LITTLE: During breaks, right?

8 CHMN STAFFORD: Yeah.

9 MR. DERSTINE: And, certainly, that was
10 just a suggestion, it could come -- you could push it out
11 later, I don't think there's any magic to that time
12 frame. And for parties who haven't been present for this
13 proceeding and aren't really aware of the issue and will
14 have to educate themselves maybe on the transcript maybe
15 more time is needed, I don't know.

16 CHMN STAFFORD: Right. Now, I'll have
17 to -- so you both know to file briefs by the 8th, so
18 that's -- that's definitely going to happen for you two,
19 but then for the -- I'm wondering if I'm going to issue a
20 procedural order in the next day or two announcing this
21 or whether -- I think that would probably be best,
22 because that would be -- that would make it more public
23 notice inviting other people to file. So it won't have
24 the date probably set for the open meeting for the
25 committee to consider it -- to consider this matter

1 again, but that will come, that will be an additional
2 procedural order letting -- setting -- well, yeah, it
3 will be in the notice when we announce that meeting,
4 it'll be -- when it comes out with the agenda, and that
5 will go on the, I guess we'll have to figure out what
6 docket, I think we've been putting things that were just
7 generally Line Siting Committee matters in the
8 substantive policy statement docket, it may be more
9 appropriate to put it in the rulemaking docket. And it
10 may be more appropriate to file the procedural order for
11 the briefing in that docket as well, because then
12 everyone would see it. I'll have to talk to Tod. But I
13 think that we could certainly get it publicized because
14 we want to hear from as many parties as we can, certainly
15 all the incumbent utilities anyway.

16 MEMBER LITTLE: Mr. Chairman, could I make
17 a general statement?

18 CHMN STAFFORD: Yes, Member Little.

19 MEMBER LITTLE: I would like to thank and
20 compliment the applicant for the comprehensive work that
21 they did in support of and in presenting to us the work
22 that they did here for this application presentation. As
23 a representative of the public, I particularly appreciate
24 the public outreach. I appreciate you extending the
25 notifications beyond the study area, since these -- these

1 projects do impact more than just the people that live
2 real close to a line. People that live in -- in an area.
3 I think you did an outstanding job, and I appreciate
4 that. I also appreciate your understanding in the
5 complexities of this whole planning process, and the
6 adjustments and modifications that we are forced to make
7 as a result of those changes. And I want to thank APS
8 again for coming in and testifying.

9 CHMN STAFFORD: Thank you, Member Little.

10 Any further comments from members?

11 (No response.)

12 CHMN STAFFORD: I'd like to thank the
13 applicant and APS for coming here today and for all your
14 testimony. I look forward to reading your briefs. I
15 will issue a procedural order in the coming days
16 announcing the deadline and opening up the briefing to
17 other parties -- any interested parties.

18 So anything further for the good of the
19 order?

20 MEMBER GOLD: Mr. Chairman?

21 CHMN STAFFORD: Yes, Member Gold.

22 MEMBER GOLD: When I was first sent to
23 Bosnia, on my first day, I got off the airplane and --

24 MEMBER KRYDER: Your microphone.

25 MEMBER GOLD: When I was first sent to

1 Bosnia, I got off the airplane expecting to have a
2 two-week transition and in-briefing from my fellow I was
3 replacing. It turned out that when I got halfway down
4 the plane ramp, he was walking up the plane ramp and
5 leaving the country, leaving me something that was a
6 black hole, as far as I was concerned.

7 I expected it in the military. I am very
8 shocked to see that it happened to me again here in
9 civilian life. But here I like the quick response that
10 you are taking. I want to thank the applicant and all of
11 you for really impressing me with what you are doing.
12 And especially the attorneys, who I don't usually expect
13 much from, but you guys did a great job, as well.

14 And, Mr. Chairman, thank you for putting up
15 with my questions. But I am overwhelmed by this. This
16 is faster than I've ever seen in the military, short of
17 combat.

18 CHMN STAFFORD: Well, I hope you don't
19 regret your decision to accept appointment to the
20 Committee. Welcome to the deep end right out the gate.

21 MEMBER GOLD: Thank you.

22 MR. CROCKETT: Chairman Stafford, I would
23 just like to chime in, I appreciate the committee being
24 here to hear this case, and appreciate the complexity of
25 the issues that are before you and we're, again, we're

1 appreciative of your time and the effort that you put
2 into this important position that you have.

3 CHMN STAFFORD: Thank you, Mr. Crockett.

4 With that, we are adjourned.

5 Thank you.

6 (The hearing concluded at 2:12 p.m.)

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2 COUNTY OF MARICOPA)

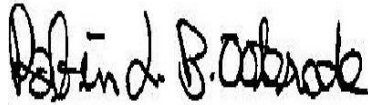
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11 (J)(1)(g)(1) and (2). Dated at Phoenix, Arizona, this
12 13th day of August, 2023.

13



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