

1 BEFORE THE ARIZONA POWER PLANT LS-322

2 AND TRANSMISSION LINE SITING COMMITTEE

3

4 IN THE MATTER OF THE) DOCKET NO.
 4 APPLICATION OF RWE RENEWABLES) L-21261A-23-0219-00225
 DEVELOPMENT, LLC, IN)
 5 CONFORMANCE WITH THE)
 REQUIREMENTS OF ARIZONA) LS CASE NO. 225
 6 REVISED STATUTES, SECTIONS)
 40-360, ET. SEQ., FOR)
 7 PREHEARING CONFERENCE)
 CERTIFICATES OF ENVIRONMENTAL)
 8 COMPATIBILITY AUTHORIZING THE)
 FORGED ETHIC WIND ENERGY)
 9 INTERCONNECTION PROJECT LOCATED)
 IN COCONINO COUNTY, ARIZONA.))
 10) EVIDENTIARY HEARING
)

11

12 At: Flagstaff, Arizona

13 Date: September 5, 2023

14 Filed: September 11, 2023

15

16 REPORTER'S TRANSCRIPT OF PROCEEDINGS
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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 High Country Conference Center, 1899
5 Ballroom, 307 West DuPont Avenue, Flagstaff, Arizona,
6 commencing at 1:00 p.m. on September 5, 2023.

7

8 BEFORE: ADAM STAFFORD, Chairman

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

15

APPEARANCES:

16

For the Applicant:

17

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18

19

20 For the Intervenor:

21 PINNACLE WEST CAPITAL CORPORATION
22 Linda J. Benally, Senior Attorney
Jennifer Spina
(Via Zoom Videoconference)
23 400 North 5th Street, MS 8695
24 Phoenix, Arizona 85004

24

25

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

2 Can you hear me?

3 All right. Now is the time set for the
4 hearing in the matter of the application of RWE
5 Renewables Development, LLC, for a Certificate of
6 Environmental Compatibility, Docket Number
7 L21261A-23-0219-00225, henceforth known as "line siting
8 case 225."

9 Let's take the role of the members.

10 Member Little?

11 MEMBER LITTLE: Present.

12 CHMN STAFFORD: Member Drago?

13 MEMBER DRAGO: Present.

14 CHMN STAFFORD: Member French?

15 MEMBER FRENCH: Present.

16 CHMN STAFFORD: Member Kryder?

17 MEMBER KRYDER: Present.

18 CHMN STAFFORD: Member Mercer?

19 MEMBER MERCER: Present.

20 CHMN STAFFORD: Member Gold?

21 MEMBER GOLD: Present.

22 CHMN STAFFORD: And I believe on Zoom we
23 have Member Somers.

24 MEMBER SOMERS: Present.

25 CHMN STAFFORD: Thank you.

1 Let's take appearances, please. Let's
2 start with the applicant.

3 MR. ACKEN: Good afternoon, Chairman, and
4 Members of the Committee, Bert Acken of Acken Law on
5 behalf of the applicant RWE Renewables Development, LLC.

6 MS. BENALLY: Good afternoon,
7 Mr. Chairman -- is my mic on?

8 CHMN STAFFORD: I don't hear it.

9 MS. BENALLY: Mr. Chairman, thank you.
10 Good afternoon to Mr. Chairman, Members of the Committee.
11 Linda Benally appearing on behalf of Arizona Public
12 Service company. Also appearing on behalf of APS is
13 Jennifer Spina. Ms. Spina is appearing virtually today
14 and I believe she's signed in and may be appearing on the
15 screen as we move through the -- through the session
16 today. Thank you.

17 CHMN STAFFORD: Thank you.

18 All right. Members, before us we have an
19 application to intervene by APS. I think the process
20 would be aided by having them as a party. Can I get a
21 motion to grant their request for intervention?

22 MEMBER KRYDER: Mr. Chairman?

23 CHMN STAFFORD: Yes, Member Kryder.

24 MEMBER KRYDER: I move that we grant the
25 request by APS to intervene.

1 MEMBER FRENCH: Second.

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

3 (Chorus of ayes.)

4 CHMN STAFFORD: Opposed?

5 (No response.)

6 CHMN STAFFORD: Hearing none, APS is
7 admitted as an intervenor.

8 Mr. Acken, would you like to begin with an
9 opening statement?

10 MR. ACKEN: Thank you, Mr. Chairman. I
11 would appreciate the opportunity to just to kind of
12 explain what our plan is and orient the Committee. We
13 really appreciate the opportunity to present the Forged
14 Ethic Wind Interconnection project. RWE Development --
15 Renewables Development, LLC, which is a subsidiary of RWE
16 is requesting approval for the project and -- and on the
17 screen in front of you, you see some details and we will
18 present testimony.

19 But let me tell you a little bit about it.
20 It's a 5-mile 500kV AC generation-tie transmission line,
21 between a new project substation that will be located on
22 the site of the wind project, and you see the POI is the
23 point of interconnection. The point of interconnection
24 is -- is interesting in this project, it is a planned APS
25 Switchyard on the existing Moenkopi-to-Cedar Mountain

1 500kV transmission line. That's a regional transmission
2 line owned by a number of entities, and operated by APS.

3 Because of the need to construct a new
4 switchyard, and we're referring to it as the APS
5 Switchyard because they will operate it, it's going to be
6 a switchyard that serves multiple projects, not just this
7 one. We are requesting, as a result, two CECs for this
8 project as the Committee has seen. Several times CEC-1
9 will cover the interconnection project, CEC-2 will cover
10 the APS Switchyard.

11 Again, because APS will construct and
12 operate it. Just to orient you with respect to the map
13 and the area, you'll see the -- see this map a few times.
14 The project area is shown, the study area, excuse me, is
15 shown in the hatch black line, a 1-mile buffer as a
16 standard for these linear transmission lines. You note
17 that this is in an area that is what we call the
18 checkerboard state and private land. State land is shown
19 in blue, private land is shown in white.

20 A couple -- the corridor is shown in black,
21 with the line in yellow, with the potential location of
22 the APS Switchyard shown in the green hatch. We're
23 requesting approval anywhere in that white section north
24 of the existing two transmission lines in which to place
25 the APS Switchyard as being shown on the screen right

1 now. Thank you.

2 The project substation is located just
3 north of the two existing 500kV transmission lines, and
4 then you also see a red access road for access to the
5 site. But you will see this proj- -- see this map and
6 others throughout the presentation, so I wanted to give
7 you a little orientation. The last thing I want to point
8 out on here is the wind project boundary, it's -- it's
9 shown there with a little call-out box in the lower
10 central portion of the map, and that runs north to south
11 in this map area. And so, again, the project substation
12 is in the western area of the wind project.

13 All facilities are located in
14 unincorporated Coconino County. And it's located -- this
15 is kind of an interesting project, it is located on the
16 CO Bar Ranch, which is owned, operated by the Babbitt
17 Ranches. So all of the state and private lands are
18 either owned by -- by the ranch or subject to state
19 lease, in which they have grazing entitlements.

20 We're going to have a panel of four
21 witnesses, you see them over there, they're eager and
22 ready to get going. Zach Nelson and Kimberly Comacho of
23 RWE, and Dean Hazle and Nick Brasier of SWCA, who are
24 going to provide testimony in support of the CEC
25 application, and you see the topics we're going to cover

1 there. It's going to include a description of the
2 applicant, the route, the requested right-of-way and
3 corridor.

4 We'll present a virtual tour, the public
5 notice and outreach process for the project, and the
6 absence of any public concerns raised as a result. The
7 comprehensive environmental resource analyses conducted,
8 and expert opinion regarding the environmental
9 compatibility of this project, which again parallels
10 existing transmission lines.

11 I did want to point out one thing.
12 We -- while reserving the legal position that the wind
13 project and the large generator interconnection process
14 associated with it are not jurisdictional, we will
15 provide information on the generating project, as is
16 customarily done. I certainly understand it was big news
17 in the line siting bar about case 222, and I understand
18 there's an open question regarding the need for system
19 impact studies conducted in the support of the CEC
20 application.

21 Now, we take the legal position in this
22 proceeding that power flow and stability analyses are not
23 required and not subject to the Committee's jurisdiction.
24 But the good news is you don't need to answer that
25 question in this proceeding. The testimony will show

1 that the applicant has commissioned a third-party power
2 flow and stability analysis. That power flow and
3 stability analysis has been presented to Commission
4 Staff, who was able to opine on the safety and
5 reliability of this interconnection, just as they would
6 for any project with a System Impact Study.

7 The last thing I want to do is just orient
8 you, we've got the application, should be on the tablets,
9 and there's a handful of -- handful of copies around the
10 room. This is kind of a beefy application, beefier than
11 many that you might see, and we'll explain why, there's a
12 lot of studies that have gone into this project in
13 support of the wind project.

14 And then we have our hearing exhibits. We
15 have a binder that includes the application, witness
16 slides for this panel. We have witness slides for
17 another witness, if necessary, who can testify about --
18 in detail about the power flow and stability study, and
19 then customary exhibits, such as your public outreach,
20 witness summaries, proposed CEC, response to ACC Staff
21 data request, a route tour should the Committee decide to
22 do that, and as well as RWE-11, which is Commission
23 Staff's response on the question of reliability. There's
24 one exhibit, 8, which is an amendment to one of the
25 exhibits in the CEC application that Mr. Hazle will

1 explain as well.

2 So with that, we look forward to presenting
3 this case, and I'm ready to get started. If you have any
4 questions before we do so, I'm happy to answer them.

5 CHMN STAFFORD: Thank you, Mr. Acken.

6 Ms. Benally, do you care to give opening
7 remarks?

8 MS. BENALLY: Thank you, Mr. Chairman.

9 I really don't have a lot in the way of
10 opening remarks; however, I would like to say that on
11 behalf of APS, we certainly do appreciate the Committee
12 granting APS's intervention in this case. As counsel
13 mentioned, there are two CECs that are being contemplated
14 by the applicant, CEC-2 is the CEC that will eventually
15 or at least planned to be transferred to APS and as it
16 relates to the proposed 500kV switchyard, which is the
17 location of where the planned interconnection will occur.

18 We're here to participate only to the
19 extent that you need us to address any questions
20 regarding CEC-2 or to answer any questions relating to
21 the interconnection at the switchyard. So unless there
22 are questions that our witness may be called to testify
23 about, we don't plan on putting on a direct case. He is
24 available -- let me rephrase that -- he's unavailable
25 this afternoon between 1:00 and 3:00, but after that time

1 will be available in the need that there's a need to call
2 him in. Thank you.

3 CHMN STAFFORD: Thank you.

4 Mr. Acken, would you like to call your
5 panel of witnesses?

6 MR. ACKEN: Thank you, Mr. Chairman.

7 The applicant calls Zachary Nelson,
8 Kimberly Comacho, Dean Hazle, and Nicholas Brasier.

9 CHMN STAFFORD: All right. Start with you,
10 Ms. Comacho, do you prefer an oath or affirmation?

11 MS. COMACHO: An affirmation.

12 (Kimberly Comacho was duly affirmed by
13 the Chairman.)

14 CHMN STAFFORD: Mr. Nelson, oath or
15 affirmation?

16 MR. NELSON: Affirmation, please.

17 (Zachary Nelson was duly affirmed by
18 the Chairman.)

19 CHMN STAFFORD: Mr. Hazle, oath or
20 affirmation?

21 MR. HAZLE: Affirmation, please.

22 (Dean Hazle was duly affirmed by
23 the Chairman.)

24 CHMN STAFFORD: Mr. Brasier -- I'm not
25 pronouncing that right.

1 MR. BRASIER: That's okay. Brasier.

2 CHMN STAFFORD: Brasier.

3 Okay. Would you prefer an oath or
4 affirmation?

5 MR. BRASIER: Affirmation, please.

6 (Nicholas Brasier was duly affirmed by
7 the Chairman.)

8 CHMN STAFFORD: Thank you. The witnesses
9 have been sworn. Please begin your direct, Mr. Acken.

10 MR. ACKEN: Thank you, Mr. Chairman. And
11 Mr. Brasier told me how to pronounce his name correctly
12 four times and I still can't get it right. I have a long
13 history of that.

14 If you want to follow along with the
15 slides, this is hearing exhibit that's been marked for
16 identification as RWE-2.

17 MR. HAZLE: Quick note for the Peaks team,
18 my clicker isn't advancing slides on the screens yet.

19 AUDIOVISUAL TECHNICIAN: Should be good
20 now.

21 MR. HAZLE: Thank you.

22 //

23 //

24 //

25 //

1 KIMBERLY COMACHO, ZACHARY NELSON, DEAN HAZLE,
2 NICHOLAS BRASIER
3 called as witnesses as a panel on behalf of Applicant,
4 having been previously affirmed or sworn by the Chairman
5 to speak the truth and nothing but the truth, were
6 examined and testified as follows:

7

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

9 BY MR. ACKEN:

10 Q. All right. We're going to start with
11 Mr. Nelson. Please state your name, employer, and
12 business address for the record.

13 A. (MR. NELSON) Yes.

14 First of all, good afternoon, Chairman Stafford,
15 Members of the Committee; my name is Zach Nelson, I'm
16 with RWE, and my business address is 101 West Broadway,
17 Suite 1120, San Diego, California. But I would like to
18 add that I am local to Phoenix; I do live in Chandler.

19 CHMN STAFFORD: Thank you. One second before
20 you continue.

21 Mr. Acken, Member Richins is trying to dial in;
22 he needs the call-in information, he's having trouble --
23 trouble with the link.

24 MR. ACKEN: If you can give us one minute,
25 and we'll get that to him. Should we send it to Tod or

1 what's the best way to get it to him as fast as possible?

2 CHMN STAFFORD: Probably send it to him
3 directly, but you can go through Tod, if you don't have
4 contact info for Member Richins.

5 AUDIOVISUAL TECHNICIAN: It looks like
6 Mr. Richins is on. He is in the meeting.

7 CHMN STAFFORD: Member Richins, can you
8 hear us?

9 MEMBER RICHINS: I can hear you.

10 CHMN STAFFORD: Excellent.

11 MEMBER RICHINS: Can you hear me?

12 CHMN STAFFORD: Yes, we can hear you.

13 Thank you.

14 MEMBER RICHINS: All right. Thank you for
15 your patience.

16 CHMN STAFFORD: Technology, huh?

17 All right. Mr. Acken, we're ready, please
18 proceed.

19 MR. ACKEN: Thank you, Chairman. And,
20 Member Richins, you missed my thrilling opening, but
21 that's -- that's the -- that's the only thing you've
22 missed. We're just now starting with testimony.

23 Q. Mr. Nelson, let's go back, state your name,
24 employer, and business address for the record.

25 A. (MR. NELSON) Yes.

1 Zach Nelson, address is 101 West Broadway, Suite
2 1120, in San Diego, California, although I am local; I
3 live in Chandler, Arizona. And I am with RWE.

4 Q. And in what capacity do you work for RWE?

5 A. (MR. NELSON) I am director of utility-scale
6 development for the West region with RWE.

7 Q. All right. And next I'd like you to provide
8 background of your education and professional experience.

9 A. (MR. NELSON) Yeah.

10 So by education I have an undergraduate and
11 graduate degree in urban planning, as you can see from --
12 from two universities in Minnesota. And at present I am
13 enrolled at ASU in the master of legal studies in law and
14 sustainability.

15 Q. Tell me a little bit more or tell the Committee
16 a little bit more about that ASU program that you're in.

17 A. (MR. NELSON) Sure.

18 So it's a program in the Sandra O'Connor College
19 of Law, it's a -- it's for working professionals mostly
20 that want to advance their, kind of career in legal
21 aspects, but not necessarily become a full-fledged
22 attorney, so contract law, environmental law, water law,
23 energy law, kind of classes like that.

24 Q. And what is your role in the interconnection
25 project that's before the Committee today?

1 A. (MR. NELSON) Yeah.

2 So my role as director is to oversee this
3 project and other projects kind of in the western region.

4 Q. And what topics are you going to cover in your
5 testimony?

6 A. (MR. NELSON) In my testimony, I will be giving
7 the company overview, the project overview, and an
8 overview of the interconnection process.

9 Q. Thank you.

10 Ms. Comacho, please state your name, employer,
11 and business address for the record?

12 A. (MS. COMACHO) Of course.

13 And first, good afternoon, Mr. Chairman and
14 Members of the Committee. My name is Kimberly Comacho,
15 my employer is RWE Clean Energy, and my business address
16 is 101 West Broadway, Suite 1120, San Diego, California
17 92101.

18 Q. In what capacity do you work for RWE?

19 A. (MS. COMACHO) I'm a manager of utility-scale
20 development in the West region.

21 Q. And next summarize your education and
22 professional experience.

23 A. (MS. COMACHO) Of course.

24 I have a B.S. in public policy and management
25 from USC. Professionally, I have worked as an

1 environmental consultant for 16-plus years and within
2 that time I focused on renewable energy projects for the
3 past 8 years. And this experience includes preparing
4 CEQA and NEPA documents and permitting -- permitting
5 these types of projects.

6 For the past half year I've been working as
7 development manager with the RWE. And in this role I
8 focus on projects in Arizona, and I'm currently working
9 on seven projects throughout the state in various stages
10 of development.

11 Q. Talk a little bit more about your role in this
12 project.

13 A. (MS. COMACHO) Okay. So as development manager
14 for this project, I collaborate with cross-functional
15 staff from within RWE, with our consultants and project
16 stakeholders to obtain information and resolve
17 project-specific issues. This includes, but is not
18 limited to, assisting with site due diligence,
19 environmental and permitting, securing land control
20 agreements, and working closely with our subject matter
21 experts in interconnection engineering and
22 pre-construction.

23 Q. And what topics will you cover in your
24 testimony?

25 A. (MS. COMACHO) Today I'll be discussing our

1 permitting approvals, but I've also been working on this
2 project for a while now, so whatever questions that the
3 Committee has on stakeholder knowledge or the day-to-day
4 process, I can answer those.

5 Q. Thank you.

6 Mr. Hazle, please state your name, employer, and
7 address.

8 A. (MR. HAZLE) My name is Dean Hazle. I work for
9 SWCA Environmental Consultants. My business address is
10 1645 South Plaza Way here in Flagstaff.

11 Q. And what is your role with SWCA?

12 A. (MR. HAZLE) I'm the planning team lead for
13 Northern Arizona and a project manager. I predominantly
14 support renewable energy developer -- developers and
15 utility clients with siting, permitting, and compliance
16 for transmission line projects such as this.

17 Q. Next, provide an overview of your education and
18 professional experience.

19 A. (MR. HAZLE) Yeah.

20 I hold a bachelor's of science in geology from
21 Hope College in Holland, Michigan. I have about 11 years
22 of professional experience focused in environmental and
23 regulatory compliance for various types of infrastructure
24 siting initiatives. I've held technical and management
25 positions in state government consulting and industry,

1 including a period as the assistant director of the
2 Massachusetts Energy Facility Siting Board.

3 Q. And have you testified previously before this
4 Committee?

5 A. (MR. HAZLE) I have. I've testified in six cases
6 since 2022, each of those cases were focused on
7 generation-tie transmission lines of varying lengths,
8 including projects similar to this, in terms of the
9 voltage and the environmental setting.

10 Q. And what is your role and SWCA's role in this
11 project?

12 A. (MR. HAZLE) SWCA has provided comprehensive
13 environmental support for both the wind project and the
14 interconnection line here. My role has been to serve as
15 the task lead for the Certificate of Environmental
16 Compatibility. SWCA's been involved in the Forged Ethic
17 Wind Energy project since approximately 2022, mainly
18 conducting specific wildlife use inventories and surveys,
19 avian use surveys, things like that.

20 We kicked off the CEC analysis in earnest in the
21 spring of 2023. And for the CEC application, we
22 conducted the environmental resource studies that were
23 specifically focused on the interconnection project. And
24 those are contained in Exhibits A through J of the
25 application.

1 I personally oversaw the compilation of the
2 information contained in each exhibit of the CEC
3 application.

4 Q. What are you going to cover in your testimony
5 today?

6 A. (MR. HAZLE) My testimony will cover the virtual
7 route tour, which will orient the Committee for both the
8 project scale and length and the general setting of the
9 area. I'll cover public involvement and the public
10 notice activities conducted for the interconnection
11 project, and then several of the environmental topics
12 contained in the application exhibits.

13 I'll specifically cover land use, visual
14 resources, noise and interference. My colleague,
15 Mr. Brasier, will cover biological resources and
16 recreation. And, finally, I will offer my opinion as to
17 the overall compatibility of the interconnection project.

18 Q. Thank you.

19 Last but not least, Mr. Brasier, please state
20 your name, employer, and business address for the record.

21 A. (MR. BRASIER) Sure.

22 My name is Nicholas Brasier, with SWCA
23 Environmental Consultants, located at 1645 South Plaza
24 Way, in Flagstaff, Arizona.

25 Q. And what do you do for SWCA?

1 A. (MR. BRASIER) I am an environmental planner and
2 project manager. I've been with SWCA since July 21st. I
3 primarily support federal, state, and local permitting
4 for renewable energy development, and I also lead
5 biological resource investigations reporting and analysis
6 and consultation with U.S. Fish & Wildlife Service,
7 Arizona Game & Fish Department, and other wildlife
8 agencies.

9 Q. And just so the record is clear, I think you
10 said you started with SWCA July 21st, is that July of
11 2021?

12 A. (MR. BRASIER) Oh, yes, July of 2021.

13 Q. Next provide a summary of your education and
14 professional experience.

15 A. (MR. BRASIER) Yes.

16 I have a bachelor of science in environmental
17 biology and a bachelor of arts in environmental studies
18 from Tulane University. I've been working as an
19 environmental planner for four years, and prior to that I
20 had nearly a decade of experience working at state and
21 federal agencies working in vegetation and range
22 management, outdoor recreation development. And these
23 positions included time as the assistant manager of the
24 Methow Wildlife refuge in Washington State and a position
25 on the National Park Service's exotic plant management

1 team.

2 Q. And Mr. Hazle testified that you would be
3 covering the analyses of biological resources and
4 recreation; is that correct?

5 A. (MR. BRASIER) That's correct.

6 Q. Okay. Thank you.

7 We're going to start off with a discussion of
8 the applicant. For that, Mr. Nelson, please describe RWE
9 Renewables Development, LLC, and its parent company, RWE?

10 A. (MR. NELSON) Yes. Thank you. RWE is a global,
11 independent power producer, specifically in North
12 America. We have an operating base of about 8 gigawatts,
13 so that's solar, wind, and battery storage projects. We
14 have about 1,500 people scattered across North America,
15 and our entire project pipeline is over 24 gigawatts, so
16 a very large -- we're a very large player in this space.
17 And just with wind -- onshore wind, we have about 5
18 gigawatts of operating onshore wind at present.

19 And as you can see, there's a map of North
20 America that show some of our wind projects scattered
21 across the country. A key point here is that we do
22 develop, own, and operate projects, so we are not a -- we
23 are not a develop-and-flip shop; we are in it for the
24 long term. So we do own and operate projects. We
25 operate over 3,000 wind turbines across the country,

1 which makes up about 30 projects in North America.

2 And RWE, as a company, has a goal of
3 25 gigawatts by 2035. So this project is a big component
4 and key for that -- for that goal.

5 Q. What projects do you have, specifically in
6 Arizona?

7 A. (MR. NELSON) Yeah.

8 So focusing here on the state of Arizona, we
9 have the light green projects, so Forged Ethic falls in
10 the light green, that is the in-development project, so
11 there's four there. We also have six solar and battery
12 storage projects that are currently operating, so
13 Mesquite Solar 1 through 3, Tech Park, Valencia, and Iron
14 Horse, those are all operating. And then we have two
15 more, the Mesquite Solar Plus Battery Storage 4 and 5,
16 are under construction and will be commercially
17 operational by the end of this year.

18 Q. So as I mentioned in my opening, we take the
19 position and I believe it's -- well, I know it's
20 consistent with very long-standing precedent of the
21 Committee and Commission, that the renewable generating
22 facilities associated with an interconnection project are
23 not jurisdictional, not subject to the Committee's
24 review.

25 However, we recognize there's interest in

1 providing context for the interconnection project, and so
2 we do have some slides and some testimony here on the
3 wind project itself with that reservation of rights.

4 So with that background, Mr. Nelson, provide the
5 Committee with an overview of the non-jurisdictional wind
6 project.

7 A. (MR. NELSON) Sure.

8 So the wind facility itself is a planned
9 up-to-323-megawatt facility. The major equipment
10 involved, obviously you have the wind turbines, you also
11 have MET towers that collect wind speeds and various wind
12 data. There will be access roads, underground collection
13 lines. There will be a project step-up substation that
14 you'll see multiple times here when we walk through the
15 project. There will be a lay-down yard, it's a temporary
16 lay-down yard that is used for turbine components during
17 construction and there will also be an operations and
18 maintenance facility.

19 The project itself is located in unincorporated
20 Coconino County, approximately 25 miles north of where
21 we're sitting today. And in terms of the start of
22 construction, we'd be looking at possibly as early as --
23 as start of construction in 2024, with a commercial
24 operations date as early as late 2025.

25 MR. HAZLE: Quick note for the Peaks team.

1 I think the right-hand screen accidentally jumped to
2 slide 30; it should be on slide 28.

3 Please continue, Mr. Nelson.

4 MR. NELSON: Continuing with project
5 details, the project is located on CO Bar Ranch land,
6 it's a checkerboard of private and state land. The
7 current land use is an active cattle ranch. I do want to
8 highlight that the ranching activities will continue even
9 when the wind farm becomes operational.

10 CO Bar Ranch, as many of you know,
11 probably, is managed by Babbitt Ranches; they're a pretty
12 prominent family-owned business here locally. They're
13 involved in livestock, natural resources, and just kind
14 of very involved in the community.

15 In terms of total acreage, the project
16 covers about 29,106 acres, but of that 29,106, only about
17 5 percent, even less than 5 percent, will be disturbed by
18 the project. So a relatively small amount of land
19 disturbance for this project.

20 BY MR. ACKEN:

21 Q. One of the things that an applicant must do in
22 preparing a CEC application is make an effort to identify
23 existing plans in the vicinity of the project, and
24 Mr. Hazle provided a little more context for that later
25 on, but we thought it made sense now to at least explain

1 how this project is near other existing renewable energy
2 developments.

3 So with that intro, Mr. Hazle, could you please
4 describe those?

5 A. (MR. HAZLE) There are at least four renewable
6 energy projects in planning or construction located on
7 the CO Bar Ranch, north of Flagstaff. As Mr. Acken and
8 Ms. Benally mentioned in their opening remarks, there are
9 several projects that will interconnect to the same APS
10 Switchyard, so each of these four projects that I have
11 shown on the left and right screen are all connecting
12 into the Moenkopi-Cedar Mountain 500kV line through this
13 planned APS Switchyard.

14 So that's why we thought it was important to
15 provide this establishing context on kind of what the
16 neighboring developments are on the CO Bar Ranch. So
17 farthest west is Forged Ethic, which Mr. Nelson just
18 covered. Moving one step to the west, closer to 180, is
19 a project called the Babbitt Ranch Energy Center. This
20 project sited its step-up substation immediately outside
21 of the APS Switchyard, and therefore, did not go through
22 the CEC process, but it did go through its Coconino
23 County Land Use Entitlements, and it is under
24 construction today.

25 A step farther to the west is a project called

1 the CO Bar Solar Complex. As its name implies, this is a
2 pure solar development, whereas the Babbitt Ranch Energy
3 Center contemplates both wind energy and also solar
4 facilities.

5 Finally, one more step out to the west, we have
6 the 1886 Solar Energy Station, this is under development
7 by Stellar Renewable Power, and Stellar's CEC will be
8 before the Committee on Thursday and Friday. So a fairly
9 large swath of the CO Bar Ranch under various stages of
10 permitting, development, and construction in the vicinity
11 of the Forged Ethic Wind Energy Project.

12 MEMBER LITTLE: Mr. Chairman?

13 CHMN STAFFORD: Yes, Member Little.

14 MEMBER LITTLE: I have a couple of
15 questions: One of the questions I had when I was reading
16 through the application was why the switchyard was
17 located so far. I mean, you're just putting it along the
18 existing Moenkopi line, why it was located 5 miles from
19 your project and I guess because you're also
20 considering -- you and APS are also considering the other
21 projects that are being developed in locating that
22 switchyard?

23 MR. HAZLE: I was not personally involved
24 in siting the switchyard, but it seems like a reasonable
25 conclusion that maybe some of these other developers were

1 in their planning stages first and kind of got the choice
2 pick of the substation location. And then the later
3 developers have longer generation-tie lines as a result
4 of coming into the process a little bit later.

5 MEMBER LITTLE: Okay. And you said this
6 wind project, not the project we're looking at today, but
7 the other one, they sited their step-up substation close
8 enough to the switchyard that they're not going to
9 require a CEC; is that correct?

10 MR. HAZLE: That's correct, yeah.

11 MEMBER LITTLE: I'm just curious why the
12 switchyard was linked particularly to this project, as
13 opposed to any of the other projects.

14 MR. ACKEN: Let me -- let me take a swing
15 at it from a legal standpoint, and then I'll ask the
16 witness panel to clean up any factual claims I make. But
17 as Mr. Hazle pointed out, you have four projects, right,
18 that's his testimony, you have four projects east to
19 west, the easternmost project -- just to clarify one
20 thing in this project, the project before you is the
21 eastern-most project -- and then next to that you have
22 two projects that do not need to go through siting,
23 because they are centrally located and are able to put
24 their project substations immediately adjacent to the
25 proposed switchyard, and thus, do not need a CEC.

1 Further west is the project you'll see
2 Thursday and Friday, and because it's the furthest-most
3 west, it needs basically the mirror image gen-tie to what
4 is before you today, 5 miles to that centrally located
5 switchyard when you look at the switchyard in the context
6 of all four developments.

7 And, then, remember, the definition of a
8 transmission line today is a series of above-ground
9 structures and associated switchyards. So you have to
10 have a transmission line in order to site a switchyard.
11 And if you don't have a transmission line, you don't need
12 to site the switchyard. It's only when you're siting a
13 transmission line that you then have the obligation to
14 site the switchyard.

15 So that's an artifact of the statutory
16 regime, you know, the recent changes don't really affect
17 this fact pattern, because these projects were so close,
18 they didn't need it anyway, but -- when I say "these
19 two," I'm talking about the two, that Babbitt Ranch
20 Energy Center, and what is the other name, the CO Bar
21 Solar, but because they're far less than a mile, but even
22 if they were a mile, under the new statutory regime they
23 would not need authority. And they would not even need
24 authority for -- to build a switchyard; it's only because
25 you have jurisdictional transmission lines that you have

1 an obligation to site the switchyard.

2 MEMBER LITTLE: So --

3 MR. ACKEN: That's the legal answer.

4 MEMBER LITTLE: -- from a legal

5 perspective, if you guys had not come along and needed to

6 site the switchyard with the transmission line, these

7 other guys wouldn't have had a switchyard to -- to --

8 MR. ACKEN: They may very well may have
9 had -- oh, I'm sorry -- they may very well have had to
10 build a switchyard, but it would not have had to be
11 reviewed by you.

12 And -- and so -- and to put it even further
13 in context, if this project were not here today, the
14 project coming Thursday and Friday would have had to site
15 the switchyard.

16 MEMBER LITTLE: Right, that -- that --

17 MR. ACKEN: So it's just a function of
18 timing.

19 MEMBER LITTLE: And I just have one other
20 question that I'm curious about, the solar project here
21 that's shown on the right-hand side of the slide on the
22 left, it -- it's checkerboard also. Is it just going to
23 be built on the private property, but not on the -- do
24 you know, not on the state property?

25 MR. HAZLE: Yeah, the map -- the map that

1 we're showing here today is, yeah, showing only solar
2 facilities on private property. This map was taken from
3 the U.S. Bureau of Reclamations Environmental Assessment,
4 which was released earlier this month in August. It does
5 look like there are what we call butterfly crossings
6 across state trust parcels. And those are just easements
7 on the corners of the state trust sections, so that the
8 developer can place access roads and collector circuits,
9 things like that.

10 MEMBER LITTLE: It's interesting.

11 How big are each of the checkerboards, how
12 many acres.

13 MR. BRASIER: I believe there's about
14 640 acres.

15 MEMBER LITTLE: Thank you.

16 BY MR. ACKEN:

17 Q. Each square represents a section; is that
18 correct?

19 A. (MR. BRASIER) yes, that's correct.

20 Q. And a section is 640 acres, generally?

21 A. (MR. BRASIER) I'm pretty sure that's right.

22 MR. ACKEN: Thank you.

23 Member Little, is that responsive to your
24 questions, before I move on I want to make sure I was
25 responsive.

1 MEMBER LITTLE: Absolutely. Thank you.

2 BY MR. ACKEN:

3 Q. Mr. Nelson, in light of -- let's go back to the
4 map shown in the other projects -- in light of these
5 other developments, is RWE associated with them in any
6 way other than you're interconnecting at the same
7 switchyard?

8 A. (MR. NELSON) No, we are not.

9 Q. Next I'd like you to talk about the development
10 status for your non-jurisdictional wind project?

11 A. (MR. NELSON) Sure. So some of the -- some of
12 the key development statuses here we have site control
13 for the wind project; we've completed multiple due
14 diligence studies to which we'll get to a little bit in
15 greater detail further on, but high level, we've
16 completed a critical issue analysis, biological studies,
17 such as avian, bats, eagles, and raptors. We've done
18 cultural resource assessments, and an aquatic resource
19 study up there as well.

20 We've also completed or we have about one year
21 worth of wind resource data from the on-site
22 meteorological tower, and we did submit to APS May of
23 2021 our large generator interconnection application, and
24 we are bidding into the APS RFP that is due tomorrow.

25 Q. Let's talk about the status of your

1 interconnection process, but I think, first off, provide
2 a high-level overview of the federally regulated large
3 generator interconnection process.

4 A. (MR. NELSON) Sure.

5 So, generally, any -- any state in the country
6 when you want to build a renewable project or any -- any
7 generation facility, for that matter, you must submit a
8 generator interconnection application to the utility or
9 in some cases the RTO or ISO. It varies
10 jurisdictionally, but -- so we did that May of 2021. RWE
11 submitted our interconnection application to APS in May
12 of 2021, with the original target date for our System
13 Impact Study to be January of 2023.

14 That was delayed and pushed out to what we
15 thought was going to be October of 2023, but we have just
16 realized or we were just updated last week that that will
17 be pushed out once again to January of 2024.

18 Q. So -- and I should have prefaced this by, again,
19 just as a remainder we're providing this testimony for
20 context, but subject to the reservation of rights as to
21 relevance.

22 So in light of the delays in obtaining a System
23 Impact Study, what steps has RWE taken to address?

24 A. (MR. NELSON) So we -- RWE, we commissioned a
25 power flow and stability analysis with a third party

1 called KR Saline. We commissioned that in July of 2023,
2 and then we did an update in August of 2024. And what
3 that -- what that report -- or what that analysis does is
4 it studies voltage and thermal aspects of the grid
5 operations. It looks at a variety of circumstances,
6 including with our wind project in the analysis.

7 So it includes the generation of our wind
8 project. The total -- total megawatts that it assessed
9 was over 4,100 megawatts, in addition to our 323
10 megawatts.

11 Q. And I want to stop you there. That 4,100-plus
12 megawatts, that's a future additional capacity, not -- so
13 that's in addition to what's currently on the system,
14 correct?

15 A. (MR. NELSON) Correct. That's in addition to
16 what's currently on the system.

17 CHMN STAFFORD: So, Mr. Acken and
18 Mr. Nelson, that's -- that's the 4,000 megawatt cluster
19 that's already been through the System Impact Study, and
20 I'm assuming that means that this project is in the 2,000
21 megawatts cluster that's ongoing.

22 MR. ACKEN: You know, I don't know if
23 Mr. Nelson can answer that question. It's certainly
24 addressed in -- in the report and could be addressed by
25 Mr. Foster of KR Saline, if we need to call him. My

1 understanding is that, you know, they made judgment calls
2 on, you know, what's expected, based on what's moved past
3 the System Impact Study into the feasibility study, what
4 are real projects, and that's where they come up with the
5 4100 megawatts, but that's me testifying.

6 Q. Mr. Nelson, is that your understanding as well?

7 A. (MR. NELSON) That is also my understanding.

8 MEMBER LITTLE: Mr. Chairman?

9 CHMN STAFFORD: Yes, Ms. Benally.

10 MEMBER LITTLE: No, it's me.

11 CHMN STAFFORD: Oh, I'm sorry, is
12 that -- Member Little.

13 MEMBER LITTLE: Just to clarify for the
14 record, you stated that RWE commissioned a power flow and
15 stability analysis from KR Saline. The Staff letter said
16 that they got a preliminary feasibility study. Just for
17 the record, to confirm, Staff actually looked at the
18 power flow and stability analysis, not a preliminary
19 feasibility study?

20 MR. ACKEN: Thank you, Member Little. It's
21 terminology.

22 Q. Mr. Nelson, can you confirm that that's correct?

23 A. (MR. NELSON) That is correct.

24 MEMBER LITTLE: Thank you.

25 MR. ACKEN: But yes, the report that

1 Commission Staff reviewed was entitled, "Preliminary
2 Feasibility Study," but, as you heard the testimony, it
3 included a power flow and stability analysis.

4 MEMBER LITTLE: Thank you.

5 BY MR. ACKEN:

6 Q. Okay. So tell us about the conclusions of that
7 power flow and stability analysis.

8 A. (MR. NELSON) Sure.

9 So the ultimate conclusions were that no
10 significant network upgrades are anticipated except for
11 the APS 500kV switchyard that we're here before you today
12 as CEC-2. Also highlighting that the ACC Staff concluded
13 that the project could improve the reliability, safety of
14 the grid, and delivery of power in Arizona.

15 MEMBER GOLD: Mr. Chairman?

16 CHMN STAFFORD: Member Gold.

17 MEMBER GOLD: I have a question, because
18 you're talking about safety of the grid. Lightning hits
19 one of your wind turbines or lightning hits something,
20 what does it do?

21 MR. NELSON: If lightning hits a single
22 turbine that -- that turbine will just shut down and not
23 be operational. The rest of the project and the turbines
24 are still fully functional.

25 MEMBER GOLD: What stops the power of the

1 lightning from going from that wind turbine to another
2 one?

3 MR. NELSON: I'm not a -- not an electrical
4 engineer by any means, but there are various switches and
5 automatic shut-off switches that -- that if something
6 like -- an event like that occurs, it will automatically
7 just trip off, go from online to offline.

8 MEMBER GOLD: So, in effect, a circuit
9 breaker of a sort?

10 MR. NELSON: That's correct.

11 MEMBER GOLD: Next question, I know you're
12 not a physicist, maybe APS would be a better one to
13 answer this, what if it's something stronger than
14 lightning? What if it's an electromagnetic pulse? Do we
15 have anything that would stop an electromagnetic pulse
16 from traversing our lines and wiping out an entire
17 system?

18 MR. NELSON: So I won't speak on behalf of
19 APS, but from our standpoint, as I mentioned earlier,
20 we are an operator of wind projects, so we are well aware
21 of -- of those potential issues. So we're -- we're, you
22 know, meeting all the standards that we can meet, and
23 it's something that our operations team is -- is always
24 kind of looking at in how to keep things secure.

25 MEMBER GOLD: When you say you're looking

1 at it, what does that mean?

2 MR. NELSON: Studying it, understanding
3 what technology is out there and just how to best
4 mitigate it. And I'm not on the operations side, so
5 that's about all I can speak to, but it is something
6 we're well aware of.

7 BY MR. ACKEN:

8 Q. Is it safe to say in a follow-up to that, that
9 RWE is a leader and wind generation is implementing all
10 appropriate industry standards with respect to safety and
11 reliability of whatever risk, whether natural or human,
12 may be out there?

13 A. (MR. NELSON) Yes, that is very accurate.

14 Q. Okay.

15 MEMBER GOLD: I'm sorry, Mr. Kryder -- I
16 yield to Mr. Kryder.

17 CHMN STAFFORD: Member Kryder.

18 MEMBER KRYDER: That was an area I was
19 going to speak to a little later, but since it's come up,
20 let me -- later in the study, and I don't have -- I'm not
21 at my question that I was planning to ask, but it talks
22 about where there are certain standards and regulations
23 and such, which you follow with regard to natural gas and
24 other sorts of transmission lines and crossing them and
25 being properly grounded, et cetera, et cetera, et cetera,

1 with the end goal and -- and, in fact, in that, as I
2 recall reading it, there were some requirements to
3 basically try to shut the thing down and see what it
4 would do to the natural gas line and would that impact
5 natural gas customers on the left or the right, so to
6 speak.

7 Following up on Member Gold's question
8 about the EMPs, and your comment that, yes, we're looking
9 at it, are there any national regulations or anything?
10 Is anybody writing anything about EMPs as they impact a
11 project like this one?

12 MR. NELSON: I will have to follow up with
13 my -- my operations team. I just don't know off the top
14 of my head.

15 MEMBER KRYDER: The -- obviously, the
16 gen-tie lines that we're talking about are lovely
17 antennae to collect anything in the unfortunate event of
18 an EMP. I mean, it would have the impact that we heard
19 of a lightning strike on one of the turbines, and
20 hopefully you've got an interruption process of some
21 sort.

22 Would you be able to talk with someone and
23 at least bring me up to speed, I feel like I'm in the
24 dark without a flashlight here, okay?

25 MR. NELSON: Yes, absolutely.

1 MEMBER KRYDER: Many thanks.

2 BY MR. ACKEN:

3 Q. And just to follow up on Member Kryder's
4 questions, is it -- and we'll get additional details, but
5 is it standard practice and will the interconnection
6 facilities include circuit breakers to trip off the
7 generation at a point where it would not then, whatever
8 issues were associated might be associated would then go
9 on to the larger regional grid?

10 A. (MR. NELSON) That's right. That's correct.

11 Q. And that's built in in standard practice; is
12 that correct?

13 A. (MR. NELSON) That is correct, yes.

14 MEMBER GOLD: Mr. Chairman?

15 CHMN STAFFORD: Yes, Member Gold.

16 MEMBER GOLD: When you say it's built into
17 the standard practice, where do we find that? The reason
18 I'm concerned about it is I've lived through two regional
19 blackouts, and my background is military. And to the
20 best of my knowledge, only one state has employed
21 protection against electromagnetic pulse.

22 MR. ACKEN: So --

23 MEMBER GOLD: Arizona is not that state.

24 MR. ACKEN: Do you prefer, "Member Gold" or
25 "Col. Gold"?

1 MEMBER GOLD: "Jon" would even be fine.

2 MR. ACKEN: I want to make sure I'm
3 respectful. Well, Member Gold, a couple thoughts, when
4 we start talking about reliability, I want to also again
5 reserve the legal position that that's not this
6 Committee's review, but I understand the questions and I
7 understand the interest.

8 I will point out that there are a number of
9 conditions in the CEC that address these types of things
10 that have been developed over time. Standard conditions
11 such as Condition 17, which addresses -- this was
12 actually a request of Commission Staff 15 years ago to
13 make sure that grounding and cathodic protection studies
14 are performed whenever you're parallel to and with 100
15 feet -- within 100 feet of a natural gas pipeline.

16 So that's one provision I think is
17 responsible -- responsive to that. I think where you can
18 take a lot of comfort in ensuring that this project will
19 comply with all those federal and industry standards is
20 Condition 15. This is a standard condition that requires
21 all applicants to follow most current Western Electricity
22 Coordinating Council, or WECC, and North American
23 Electric Reliability Corporation, NERC, planning
24 standards, as approved by the Federal Energy Regulatory
25 Commission, FERC, National Electrical Safety Code, NESC,

1 standards, as well as Federal Aviation Administration
2 regulations.

3 So Condition 15 really captures the
4 universe of industry and regulatory requirements and best
5 practices with respect to the safety -- safe, reliable
6 integration into the grid.

7 MEMBER GOLD: Mr. Chairman, may I -- may I
8 continue?

9 CHMN STAFFORD: Yes, Member Gold.

10 MEMBER GOLD: I understand what you're
11 saying. The question is, times are changing. We're in a
12 dangerous world at the moment with new technologies and
13 new weapons systems. Are these regulatory commissions
14 keeping up with the times or is this something that we're
15 looking at the -- for instance, in a military
16 terminology, fighting the last war instead of the next
17 war?

18 I mean, I'm not criticizing your group for
19 what they're doing. What I'm asking is, is anyone
20 looking to take this to the next level, because this is
21 new. This is not something that is 100 years old.
22 Electromagnetic pulse from a solar flare may have
23 happened 150 years ago, and it's rare, and it didn't
24 affect much. We didn't have much electricity at the
25 time, but 40 years ago, our adversaries were developing

1 weapons you could put in a truck that could create an
2 electromagnetic pulse. Today I'm sure it's been
3 miniaturized to a case that's smaller.

4 You're doing a very expensive project, very
5 necessary project that I'm in favor of, I'm just saying
6 are we protecting against it being targeted, and that
7 target's spreading, and the reason I'm concerned is in
8 the state of Arizona, the majority of our population
9 relies on electricity for water.

10 And if you lose electricity, if we have an
11 electrical grid blackout that lasts more than, you know,
12 a lightning strike, a couple of days, you're talking
13 something that could last a couple of years until it's
14 repaired if we don't protect against something like that.

15 I'm asking that you consider it, you know,
16 for the future for the companies you work with. More
17 important, I'm asking APS to look into it. I know you
18 have a physicist who was supposed to have been notified
19 of this; has he been? I mean, you're an attorney, you're
20 not a physicist; I'm not picking on you. I'm simply
21 saying this should be raised to another level. Maybe it
22 will start at this Committee.

23 And I don't want to belabor the point
24 because this is something I'd like to see passed quickly,
25 but something that I think should be moved up the chain,

1 and someone should do it.

2 MR. ACKEN: I'll give Ms. -- I'll give
3 Ms. Benally an opportunity, but let me -- let me address
4 first, Member Gold, we understand the interest. Again,
5 it's my position that it's outside the scope.

6 But with that said, and I will say a couple
7 of things, I mean, this -- Mr. Nelson can speak to the --
8 RWE, as you point out, has a vested interest in making
9 sure this project is built reliably and safely and for
10 the long haul. And so we'll take it as an action item to
11 see, you know, if we can provide additional context for
12 those safety standards, and if I understood, make sure
13 that I'm being responsive to your request is, are those
14 organizations, you know, those myriad of acronyms that I
15 just used, are they looking -- are they continuing to
16 look into these new frontier risks, basically.

17 MEMBER GOLD: Thank you.

18 MR. ACKEN: Is that the question?

19 MEMBER GOLD: Yes.

20 MR. ACKEN: Okay. We will take that as an
21 action item to follow up with.

22 MEMBER KRYDER: Mr. Chairman?

23 CHMN STAFFORD: Yes, Member Kryder.

24 MEMBER KRYDER: Mr. Acken, I sure
25 appreciate your comment, and you made it very clear and

1 you've done it several times that this is beyond the
2 scope of this Committee. Condition 17 that talks about
3 the gas transmission lines and such as that, apparently
4 is not beyond the scope of this Committee, because it's a
5 condition there. And it says something about "The
6 applicant shall take appropriate steps to ensure that any
7 material adverse impacts are mitigated."

8 Hmm, sounds to me like there's -- could at
9 least be, you know, I'm long -- a long way from being a
10 lawyer, I can scarcely spell the name -- the word, but it
11 seems to me that there would be a template that could
12 overlay if -- if the desire was there, that there
13 certainly is the beginning of language there that could
14 say, yes, in fact, this could be under the auspices of
15 the Line Siting Committee, because those 5-mile lines
16 that we have are lovely antennae, as we've established,
17 to take the EMP that Member Gold spoke about, and kind of
18 give everybody a bite of that sandwich.

19 And it's clearly stated here that there's
20 the concern with the gas pipelines, my goodness, if we're
21 concerned about gas pipelines, I'm certainly a little
22 more interested in the water if I can turn on the tap,
23 following up on Member Gold's -- I yield with that, I'll
24 zip my lip.

25 CHMN STAFFORD: Thank you, Member Kryder.

1 Ms. Benally, did you have a response to
2 make? I know maybe -- I don't know if you had something
3 to say or if you wanted to wait until you had your
4 witnesses on the stand to provide comment on those
5 questions.

6 MS. BENALLY: Mr. Chairman, thank you.

7 We would like to have our witness respond
8 to the question to the point that he is knowledgeable on
9 this issue. I also would just like to state that the
10 interest that APS has in this case is really related to
11 the switchyard and not necessarily the 5-mile gen-tie
12 line that the applicant is proceeding with. So with that
13 caveat, certainly we've made a note and we will see if
14 Mr. Spitzkoff is able to address that.

15 On a secondary note, Member Gold, we did
16 take your question from the last sidebar discussion on
17 this issue and have raised it internally, so it did not
18 fall on silent ears. We just have not had the
19 opportunity to follow up on the particular question.

20 Thank you.

21 MEMBER LITTLE: Mr. Chairman?

22 CHMN STAFFORD: Yes, Member Little.

23 MEMBER LITTLE: May I address the issue
24 just briefly? I am an electrical engineer, and I worked
25 in the utility business for many years. And although the

1 issues that have been raised here today are -- the issue
2 of electromagnetic pulse is not a new one. The delivery
3 of that electromagnetic pulse is what is new. Lightning
4 is an electromagnetic pulse. And, you know, I think,
5 along with the other issue of cyber security, these --
6 these things are -- the utilities, in general, are very
7 much aware of the dangers and the potential for some
8 pretty disastrous stuff to happen.

9 And they're looking at them, they're
10 studying them industrywide. You know, the meetings that
11 I have been to, the things that I have read over the last
12 few years, this is at the forefront of many of the things
13 that are being looked at in the industry.

14 I think that any particular project -- any
15 particular utility, before they would allow any project
16 to interconnect with them, would make sure that the
17 project is following whatever the latest knowledge and
18 information is about, you know, all of these issues.

19 CHMN STAFFORD: Thank you, Member Little.

20 Mr. Acken, please proceed.

21 MR. ACKEN: Thank you, Chairman and thank
22 you Committee Members for the robust discussion and
23 everyone's perspective. We're going to turn to the
24 jurisdictional facilities, and Member Kryder, you'll be
25 glad to hear I'm not going to have any more objections,

1 so we're -- we're going to talk about the project. So
2 thank you for your patience with me, and let's dive in.

3 Q. Mr. Nelson, provide an overview of the
4 interconnection project, including the 5-mile
5 transmission line.

6 A. (MR. NELSON) Sure.

7 So the generation transmission tie is
8 approximately 5 miles; it's a 500kV alternating current
9 line that will start at the project substation, and go to
10 the point of interconnection, which is the APS-owned
11 switchyard. It's along the existing Moenkopi-to-Cedar
12 Mountain 500kV transmission line. And the
13 Moenkopi-to-Cedar -- Cedar Mountain is part of the
14 regional transmission system owned by the Navajo Southern
15 Transmission system and operated by APS.

16 CHMN STAFFORD: Is that the line that runs
17 up to the Navajo Generating Station, the
18 Moenkopi-to-Cedar Mountain?

19 MR. HAZLE: Yeah. On RWE-3, the final page
20 of that exhibit has a generalized map of the transmission
21 system in Arizona, and that does, indeed, show the 500kV
22 line running from Navajo near Glen Canyon -- the Navajo
23 Generating Station near Glen Canyon.

24 CHMN STAFFORD: Okay. I see.

25 And then I can see the Cedar Mountain to

1 Moenkopi, that's the segment you're talking -- that's the
2 line there, right?

3 MR. HAZLE: The Peaks team is on it and
4 pulled up that exhibit very quickly.

5 So here's Navajo Generating Station near
6 Glen Canyon, Moenkopi Switchyard, I believe, and Cedar
7 Mountain Switchyard, and so --

8 MEMBER LITTLE: Mr. Chairman?

9 CHMN STAFFORD: Yes, Member Little.

10 MEMBER LITTLE: That line -- that
11 substation and that line were originally built from Four
12 Corners to go across over into California. And, as you
13 can see, it originates at Four Corners, went through
14 Moenkopi and then over to Mead. And then when Navajo was
15 built, the -- it came into Moenkopi. And then from
16 Moenkopi, the Four Corners -- some of the Four Corners
17 power also came down the other 500kV line that comes down
18 south. Just a little history there.

19 CHMN STAFFORD: Thank you. Thank you very
20 much, Member Little.

21 Mr. Hazle, please proceed.

22 MR. HAZLE: Did that answer your question,
23 Mr. Chairman?

24 CHMN STAFFORD: Yes, it did, thanks.

25 MR. HAZLE: I'm all set.

1 BY MR. ACKEN:

2 Q. Mr. Nelson, please continue.

3 A. (MR. NELSON) Yes.

4 And we are before you, as we mentioned, for two
5 CECs. CEC-1 will cover the interconnection project, and
6 CEC-2 will cover the APS Switchyard.

7 CEC-2, the APS Switchyard, will be constructed
8 and operated by APS.

9 Q. Next, describe the route and requested CEC
10 corridor and right-of-way.

11 A. (MR. NELSON) Yeah, so the -- the route starts,
12 as I mentioned earlier, from the project substation that
13 goes south about 3/10ths of a mile, and then will proceed
14 for approximately 4.4 miles to the Southwest to the APS
15 Switchyard, which is also the point of interconnection.

16 What we are looking for approval today is for a
17 300-foot wide corridor, and then within that 300-foot
18 corridor is where we'll site the 200-foot-wide
19 right-of-way.

20 Q. And the 300-foot corridor and 200-foot
21 right-of-way is specifically for the transmission line;
22 is that correct?

23 A. (MR. NELSON) That is correct, for the
24 transmission line.

25 Q. And then for the switchyard, it's all of the

1 area north of the two existing lines in that private land
2 section that's shown right now with the laser pointer; is
3 that correct?

4 A. (MR. NELSON) That is correct.

5 Q. So I have sited many projects, many, many
6 projects before this Committee. I don't believe I have
7 ever asked for a corridor as narrow as 300 feet. I
8 almost always have had applicants request a minimum of
9 500, usually a thousand feet or more.

10 Are you confident that the 300-foot-wide
11 corridor you're requesting here will be sufficient?

12 A. (MR. NELSON) Yes, we are confident.

13 Q. And why is that?

14 A. (MR. NELSON) Due to the existing infrastructure
15 that is already out there, we are confident that 300-foot
16 will be sufficient.

17 Q. And is that because you're paralleling the
18 existing infrastructure.

19 A. (MR. NELSON) Yeah, because we're paralleling the
20 existing infrastructure.

21 Q. And -- and what about the underlying landowner,
22 both the Babbitt Ranches and state land, do you think
23 they're supportive of that?

24 A. (MR. NELSON) Yes, they're absolutely supportive.

25 Q. Okay. And you've been working with them closely

1 throughout; is that correct?

2 A. (MR. NELSON) That is correct.

3 Q. Next, I'd like you to talk about the purpose and
4 need for the interconnection project.

5 A. (MR. NELSON) The purpose and need is to allow
6 for the delivery of renewable energy onto the regional
7 transmission system here in the Southwest U.S., adding
8 additional renewable energy to the region is a goal, not
9 only for APS, but also, as I mentioned, for RWE.

10 The wind project will generate just locally over
11 \$30 million in new tax revenue over 35 years, which is
12 what we're assuming for the operational life of the
13 project. And then the landowner payments, obviously,
14 will go to Babbitt Ranches and then the state trust
15 beneficiaries for the state land.

16 Q. What type of transmission structures will the
17 inter- -- interconnection project use?

18 A. (MR. NELSON) So we're looking at two structures,
19 one is a steel H-frame and one is a three-pole structure.
20 The steel H-frame is predominantly what you would see in
21 the transmission corridor. So that's where the 500kV
22 transmission lines will be strung upon and then
23 the -- yes, as you can see on the left, and then the
24 middle and the right pictures up on the diagram, those
25 are generally for the turning structures and the dead-end

1 structures, which are typically kind of near the project
2 substation and the point of interconnection switchyard.

3 Generally, the max height of these are up to
4 165 feet, so that would be the highest point, and the
5 clearance from the ground to the line would be about
6 32 feet. And then in terms of span length between poles,
7 depending upon the pole structure, it's anywhere between
8 600 and 13 [sic] feet.

9 MEMBER KRYDER: Mr. Chairman?

10 CHMN STAFFORD: Member Kryder.

11 MEMBER KRYDER: Just to follow up on your
12 numbers here, the line specification, the 165 feet and
13 the 32 feet for minimum clearance, is that similar to the
14 existent line that's parallel to it, do you know?

15 MR. NELSON: I don't know.

16 MEMBER KRYDER: The reason for my question
17 goes back to the cattle grazing under it, okay? How is
18 that all impacted? And if it's similar to what's already
19 there, you know, we've got a good database that says it
20 works out. But if it's significantly different, that
21 would be an interesting question for me to know.

22 MR. NELSON: Sure.

23 MEMBER KRYDER: Okay. Thanks.

24 Thank you, Mr. Chairman.

25 CHMN STAFFORD: Mr. Acken, please proceed.

1 One second, Member Gold, do you have a
2 question.

3 MEMBER GOLD: No, sir.

4 CHMN STAFFORD: Okay. Mr. Acken, please
5 proceed.

6 MR. ACKEN: And, Member Kryder, we're
7 keeping track, we'll follow up on that.

8 MEMBER KRYDER: Terrific. Thanks. Takes
9 another question off my list.

10 MR. ACKEN: We try to anticipate as many as
11 we can.

12 MEMBER KRYDER: Thank you.

13 MR. ACKEN: Next, we're going to talk about
14 the status of permitting for the interconnection process.

15 Q. Ms. Comacho, please describe the various permits
16 and the status thereof for the Committee?

17 A. (MS. COMACHO) Okay. So for permits and
18 approvals, we have four main -- or four main project
19 milestones. These include our approval of a NEPA
20 environmental assessment, prepared for the
21 interconnection project through the Bureau of
22 Reclamation. The Bureau of Reclamation is involved in
23 the project because they're part owner of the Navajo
24 Southern Transmission System, or NSTS, line. We will
25 execute a LGIA with APS and the NSTS members, and as such

1 as part of the interconnection agreement process

2 Reclamation will need to approve the LGIA.

3 The EA is currently under preparation and will
4 be submitted once we receive the SIS. So far we've
5 completed the tier 1 preliminary site evaluation and the
6 tier 2 site characterization report. And also the
7 biological evaluation is expected to be finalized in Q-4
8 of this year.

9 We'll also need approval of a Certificate of
10 Environmental Compatibility for the interconnection
11 project through the Arizona Corporation Commission, which
12 are here today to discuss. Next, we'll need approval of
13 our State Trust Land right-of-way easement for both the
14 interconnection project and the wind project through the
15 Arizona State Land Department.

16 For this effort, we have a number of reports in
17 process, both the native plant inventory and cultural
18 resource reports. We have already completed our field
19 studies, and the reports are currently underway.

20 And, last, approval of a Conditional Use Permit
21 for both the interconnection project and wind project
22 through Coconino County. The CUP package is currently
23 being prepared and we're anticipating submitting it in
24 Q-4 of this year. As a part of this package, we prepared
25 a number of biological resource surveys, including avian

1 use surveys, aquatic resource assessment, and a number of
2 others, which you'll hear more about later in this
3 presentation. A cultural resources inventory, a visual
4 resources assessment, in addition to a variety of other
5 reports that provide support for these approvals.

6 Q. As a follow-up to the County entitlement
7 process, I throw this to the panel, is there a need for a
8 comprehensive plan amendment? Many projects, some
9 members of the Committee know, require both a
10 comprehensive plan amendment in addition to their rezone.
11 Does anyone on the panel know whether a comprehensive
12 plan amendment is required?

13 A. (MR. HAZLE) This project is permitted use in the
14 current zoning district, which is the general zoning
15 district for Coconino County, therefore, no rezone is
16 required for either the transmission line or the wind
17 project. Therefore, no comprehensive plan amendment is
18 required to permit this process through the County.

19 Q. Thank you.

20 Next, Mr. Chairman, we're going to switch gears
21 and go to the virtual tour. If you give us a minute to
22 get it loaded, and Mr. Hazle will present that.

23 A. (MR. HAZLE) All right. And for the Peaks team,
24 I may periodically request a pause. Thank you.

25 Okay. Let's just pause here on this opening

1 shot. I just want to orient the Committee with a few
2 features that you'll see in the virtual route tour. The
3 highlighted yellow area is the requested CEC corridor.
4 Rectangle down here is the APS Switchyard. We've
5 included just representative facilities that are typical
6 of 500kV switchyards.

7 Project substation, and the existing
8 Moenkopi-Cedar Mountain transmission lines, which
9 Mr. Nelson has covered in his testimony. Additionally,
10 there is the Arizona Trail, which crosses the CO Bar
11 Ranch in the vicinity of the interconnection project, and
12 you'll see that sort of weaving its way through this
13 portion of the interconnection -- wind project area,
14 excuse me.

15 Please play.

16 Another feature, just for the benefit of the
17 Committee, this gray area is the wind project area, and
18 we do have simulated wind turbines just in the sort of
19 representative preliminary layout that RWE has. This is
20 just an establishing shot of a collection substation with
21 the riser structure going up to that typical H-frame,
22 which, as Mr. Nelson testified, is sort of the default
23 line structure -- tangent structure, as it's sometimes
24 called, where the project is just proceeding straight
25 ahead. The orange dashed line is the Arizona Trail, you

1 can see it crosses beneath --

2 Please pause for a second.

3 -- the Arizona Trail crosses beneath the
4 existing Moenkopi lines, and will cross beneath the
5 interconnection project. I cover that in more detail in
6 the land use testimony.

7 Please play.

8 MEMBER KRYDER: Could it be possible to
9 back that up just a little bit? I'd like to see where
10 the actual crossing is.

11 MR. HAZLE: Sure.

12 Pause right there.

13 Yup. So here's the Arizona Trail kind of
14 weaving its way through the CO Bar Ranch. Again, the
15 gray area is the limit of the wind project, and the
16 yellow area is the limit of the interconnection project.

17 MEMBER KRYDER: So the gray area in the
18 center kind of at -- yeah, that's all going to be full of
19 turbines, eventually?

20 MR. HAZLE: The gray area is sort of a
21 permitting boundary. The wind turbines, you'll see
22 periodically throughout the flyover. I think there's
23 approximately 100 simulated in this virtual flyover.
24 There will most likely be fewer than 100 in the final
25 layout when RWE finishes its engineering.

1 MEMBER KRYDER: Okay. Thank you so much.

2 BY MR. ACKEN:

3 Q. And, Mr. Hazle, remind us again, what's the
4 project area for the wind project?

5 A. (MR. HAZLE) Approximately 29,000 acres.

6 Q. And so less than 100 turbines over 29,000 acres?

7 A. (MR. HAZLE) That's correct.

8 Q. Thank you. Please continue.

9 A. (MR. HAZLE) Go ahead and play the video.

10 So we looked at the regional transmission system
11 map a few minutes ago, and these are the location of the
12 Moenkopi-Cedar Mountain 500kV lines. You can see our
13 interconnection project will hug that right-of-way
14 immediately to the north. Same goes to the APS
15 Switchyard, leaving very little space between the
16 inter- -- between the existing lines and the switchyard
17 facility, obviously observing setback distances --
18 requisite setback distances for electrical safety codes,
19 but not leaving a gratuitous amount of unnecessary space
20 between the facilities.

21 Just pause real quick.

22 For Member Kryder, these little individual small
23 white sticks here, those are the wind turbines and kind
24 of gives you a sense for the spacing between turbines
25 there.

1 MEMBER KRYDER: Yes, I was looking more
2 about proximity to the trail. I know that's, again, not
3 our purview.

4 MR. HAZLE: Right.

5 MEMBER KRYDER: But just interest.

6 MR. HAZLE: Yeah, yeah. I'll cover that in
7 the land use for you.

8 Please proceed with the flyover.

9 All right. You can see this area is quite
10 rural, you know, it's range land for cattle grazing. The
11 nearest residential structure is affiliated with Babbitt
12 Ranches and is actually a -- sort of a ranch camp about
13 3.8 miles from the project itself. We'll cover this in
14 more detail during the visual resources.

15 Please pause.

16 But I do have just a preview of each of the
17 visual photo simulations of the project. So this is from
18 U.S. 180 at a distance of about 5.7 miles, and you can
19 see individual wind turbines, but it is very difficult to
20 see individual transmission structures at that distance
21 from the highway.

22 Please continue.

23 And that's sort of a flat open view with a
24 low stature vegetation, typical of the CO Bar Ranch and
25 the San Francisco plateau, generally. This next visual

1 simulation is directly from the Arizona Trail --

2 BY MR. ACKEN:

3 Q. Maybe pause right there?

4 A. (MR. HAZLE) Yup, pause.

5 Q. To address Member Kryder's question again about
6 the trail and the proximity to the turbines?

7 MEMBER KRYDER: That's very helpful. Thank
8 you.

9 MR. HAZLE: Sure. So I -- in this layout
10 of the wind turbines, they have a setback distance of a
11 quarter mile, which is consistent with Coconino County's
12 Renewable Energy Ordinance. The applicant, RWE, is
13 looking at whether they can increase that setback
14 distance, they're in the process of selecting a final
15 wind turbine model for their facility and will likely use
16 a more efficient, larger model that allows them to use
17 fewer turbines for the same generating capacity.

18 MEMBER LITTLE: Mr. Chairman?

19 CHMN STAFFORD: Yes, Member Little.

20 MEMBER LITTLE: I have a question. Why are
21 they painted white or silver as opposed to, you know,
22 transmission tower structures are kind of
23 brownish-grayish, anybody know?

24 MR. HAZLE: My understanding is that is a
25 FAA -- I don't know if it's a requirement or if it's just

1 sort of precedent out of past projects, but it has to do
2 with visibility to aircraft.

3 MEMBER LITTLE: Thank you.

4 CHMN STAFFORD: I have a quick question.
5 What is the anticipated capacity factor for the wind
6 farm?

7 MR. NELSON: If I remember correctly, and I
8 will confirm, but we are around, I want to say,
9 42 percent NCF, I think. I can confirm it, but I think
10 we're somewhere in that.

11 CHMN STAFFORD: Thank, yeah, just
12 double-check, please. Thanks.

13 MR. HAZLE: Continue the flyover.

14 It just gives a preview of the visual
15 resources section, but you can see the existing
16 transmission facilities and then the simulated H-frames
17 and the simulation of the project substation there.

18 Our third key observation point is also
19 from the Arizona Trail, but a location that's farther to
20 the north just so we capture both perspectives --
21 perspectives of what a recreationalist might view the
22 project as, if they were using the Arizona Trail.

23 MEMBER KRYDER: Mr. Chairman?

24 CHMN STAFFORD: Yes, Member Kryder.

25 MEMBER KRYDER: Could you pause it there,

1 yeah, that's a real good picture.

2 I recall reading, please correct me if I'm
3 wrong, some of the responses about the trail and so on
4 that went from one agency over to another, and I don't
5 remember the acronyms. But they said especially try to
6 avoid fencing, okay? Is there any fencing going on here
7 or how is that --

8 MR. HAZLE: The project substation and the
9 APS Switchyard will have security fences around them, but
10 there will not be fences along the transmission line nor
11 fences around the wind turbine.

12 MEMBER KRYDER: And there are none now for
13 the other line that's already existent?

14 MR. HAZLE: Correct.

15 MEMBER KRYDER: Okay. Thanks.

16 MR. HAZLE: Please play the video.

17 So, again, you know, the wind turbine
18 facility's visible, but the transmission facilities are
19 kind of back here against the more prominent Mesa Butte
20 in that perspective. From here our virtual tour is just
21 going to pan back out to that initial view of the
22 project, and I hope that provided some establishing
23 context for the Committee, and would be happy to answer
24 any questions about the route or the corridor before
25 moving on to public involvement.

1 CHMN STAFFORD: All right. We're coming up
2 on an hour and a half mark. I think the court reporter
3 is probably ready for a break. I know I am. So let's
4 take a 10-minute recess and come back at about 3 -- no,
5 2:40.

6 We stand in recess.

7 (Recessed from 2:27 p.m. until 2:46 p.m.)

8 CHMN STAFFORD: Let's go back on the
9 record.

10 Mr. Acken, please proceed.

11 MR. ACKEN: Thank you, Mr. Chairman. There
12 were a few items that we had left for follow-up. We
13 still have to run to ground a couple of them, but one
14 that we can answer after that break is the capacity
15 factor.

16 Q. Mr. Nelson, can you provide an update?

17 A. (MR. NELSON) Yes.

18 So I think I said 42 percent for the capacity
19 factor. I was incorrect, it's more like 33 or
20 34 percent.

21 CHMN STAFFORD: Thank you.

22 MR. ACKEN: Thank you. Chairman, Members
23 of the Committee, we're now going to shift and talk about
24 the public outreach and public notice process for this
25 project. And for that, Mr. Hazle will be the primary

1 testifying witness.

2 Q. So, Mr. Hazle, let's start off by just kind of
3 giving an overview of the goals and the process for the
4 public involvement.

5 A. (MR. HAZLE) The overarching goal of the public
6 involvement process was to introduce the project to key
7 stakeholders, both public stakeholders, regulatory
8 agencies, county leadership, property owners, and tribal
9 contacts in the vicinity of the interconnection process.
10 To get the word out, we used a variety of print
11 and digital media, advertising approaches. Those are
12 detailed on the left here. And one of the main features
13 of the outreach process was an in-person open house.
14 I'll cover each in more detail on the subsequent slides.

15 Q. Start off by explaining how members of the
16 public could contact the project team?

17 A. As a general approach for our outreach process,
18 we included contact information for the project team in
19 all of our public-facing communications, that includes a
20 direct e-mail address for a RWE project manager, a
21 Flagstaff-based mailing address for anyone who is
22 interested in submitting written comments to the project
23 team, a project up -- excuse me -- a project website that
24 was updated routinely as new information became
25 available. A screenshot of the project website is shown

1 on the right-hand side here with its corresponding web
2 address link. As of a couple weeks ago, the website has
3 received approximately 260 unique visitors.

4 So each of these means of contacting the project
5 team were included in our direct mailings, newspaper,
6 advertisements, and the website was linked to all of our
7 social media outreach.

8 Q. How did you inform the public of the open house?

9 A. (MR. HAZLE) The first, and maybe most important
10 outreach method is a direct mailing that we sent out to a
11 mailing list of key stakeholders. There was about 70
12 contacts on this mailing list. Those included property
13 owners within 10 miles of the interconnection project,
14 stakeholders such as the Arizona Trail Association and
15 the South Rim Property Owners Association.

16 As far as public agencies and departments, we
17 had contacts at the Grand Canyon National Park, Kaibab
18 and Coconino National Forest, the U.S. Fish & Wildlife
19 Service, Arizona Game & Fish Department, Arizona State
20 Land Department, and several key contacts at Coconino
21 County.

22 Our mailing list also included tribal contacts,
23 the Navajo Nation, Hopi Tribe, Havasupai Tribe, Hualapai
24 Tribe, and other key tribal contacts in the state of
25 Arizona.

1 As an additional follow-up point on our tribal
2 outreach, we did provide just an extra stack of about 20
3 of these outreach letters to the Cameron Chapter House on
4 the Navajo Nation, the Cameron Chapter is the portion of
5 the Navajo Nation closest to the wind energy project.
6 And the purpose of doing that was really just so that
7 anybody who was passing through the chapter house could
8 take home a copy of the open house invitation letter and
9 learn more about the project that way.

10 Additionally, members of the RWE project team
11 and SWCA did attend the Cameron Chapter House meeting in
12 late July, and provided a short presentation on the wind
13 project and were available to answer questions about its
14 construction and operation and potential wildlife
15 impacts. So that kind of recaps the open house
16 invitation letter and its, you know, sort of related
17 outreach to the, you know, tribal contacts in the Navajo
18 Nation, specifically.

19 In addition to that direct mailing, we ran
20 newspaper advertisements in the Arizona Daily Sun, which
21 is sort of the main newspaper in the Flagstaff area.
22 That ran twice leading up to the open house on May 10 and
23 12. And, finally, we ran a Facebook advertisement which
24 was targeted to the interconnection project with a
25 screenshot of that Facebook ad here on the right, you can

1 see it just has key event details for the open house
2 itself, and, you know, anyone who clicked on this
3 Facebook ad would be directed to the project website
4 where further information was available.

5 MEMBER LITTLE: Mr. Chairman?

6 CHMN STAFFORD: Yes, Member Little.

7 MEMBER LITTLE: I would just like to go on
8 the record as saying that I live here. I read the paper
9 every day. I never saw the legal advertisements. I
10 don't read the little tiny legal advertisements in the
11 classified ads every day. I would have preferred to see
12 a larger advertisement that perhaps other, you know,
13 anybody just reading the paper would have noticed.

14 Nobody that I've spoken to in town here saw
15 those advertisements. And I was very disappointed,
16 though not surprised, that there was only one person at
17 the -- at the open house. Thank you.

18 MEMBER RICHINS: Chairman?

19 CHMN STAFFORD: Yes, Member Richins.

20 MEMBER RICHINS: Member Little raises an
21 excellent point, which belies probably the issue of -- of
22 how the statute reads for legal notice. And it's not the
23 fault of the applicant that the notices are noticed how
24 they are. It's the fault of the statute. If we need
25 more robust notice, that's a piece of work that we need

1 to take up probably with the state legislature within the
2 legal framework.

3 CHMN STAFFORD: It's actually the rule that
4 requires the publication in the newspaper, and the
5 Arizona Corporation Commission has recently opened up a
6 rulemaking docket to modernize the Line Siting Committee
7 rules, which can't come too soon, you know, they're
8 50-something years old, and so they need to get with the
9 times. I mean, electronic communication is much more
10 effective than the newspaper.

11 Similarly, 25 paper copies for an
12 application, these are things whose time has gone. I
13 mean --

14 MEMBER RICHINS: Thank you, Chairman, for
15 clarifying that. I appreciate it. And we need to make
16 sure that that gets done in that rulemaking, because I
17 think it's a really valid point that she raises here.
18 But it's not the fault of the applicant, but thank you
19 for that.

20 CHMN STAFFORD: Yes, thank you.

21 Mr. Acken, please proceed.

22 MR. ACKEN: Thank you, Mr. Chairman.

23 Q. Mr. Hazle, is there anything else you wanted to
24 say on this before you talked about the open house
25 specifically?

1 A. (MR. HAZLE) The Facebook advertisement is
2 geographically targeted to the project area. We use
3 something like a 15-mile radius around the gen-tie
4 itself, trying to capture Facebook and Instagram accounts
5 inside that radius. Advertising metrics from Facebook
6 indicate that we reached approximately 2,300 unique
7 accounts. The advertisement was clicked on approximately
8 21 times, and did receive a comment directly in the
9 Facebook advertisement, which we were able to reply to.

10 The slide here indicates there were three
11 comments. It was one commenter leaving two remarks with
12 one reply from SWCA.

13 Q. And you're going to discuss public comments in a
14 bit more detail, but describe the open house next.

15 A. (MR. HAZLE) The open house was held at the
16 Doubletree Hotel on Route 66 here in Flagstaff with a
17 conventional open house format, poster boards on tripods
18 with project information, covering both the
19 interconnection project and the wind project. We had a
20 sign-in sheet and comment card available for interested
21 members of the public, and representatives from both SWCA
22 and RWE were present at that event.

23 As Member Little pointed out, we had one
24 attendee at the open house, and no formal comments were
25 left in the comment submittal box, which is on the

1 right-hand side of the screen there.

2 Q. Let's talk about the public comments that you
3 did receive as a result of your pre-application public
4 outreach.

5 A. (MR. HAZLE) We received comment letters from the
6 U.S. Forest Service, which primarily focused on the
7 Arizona Trail and their management responsibilities for
8 that trail. I'll cover that in more detail in the land
9 use testimony.

10 We also received a comment letter from the Grand
11 Canyon National Park. That comment did not raise issue
12 with the wind -- excuse me -- did not raise issue with
13 the transmission line, but did pose a number of questions
14 about the potential visual impacts of the wind farm
15 itself.

16 RWE offered to set up an in-person meeting with
17 Grand Canyon National Park staff, but ultimately couldn't
18 decide on a date or get ahold of Grand Canyon's staff.
19 The RWE team is in the process of finalizing its wind
20 turbine layout, and since the wind turbine layout is a
21 key feature of the wind project's visual impacts, they
22 are waiting to finalize that layout before providing a
23 formal comment reply to Grand Canyon.

24 Additionally, we received the one comment from
25 the Facebook advertisement, that individual appears to

1 have confused the Forged Ethic Wind Energy project with a
2 neighboring renewable energy development, which is
3 already under construction, and we -- we pointed that out
4 and offered to speak with that individual if they had
5 further questions.

6 Q. Thank you.

7 Next I'd like you to talk about the public
8 notice activities conducted specifically for this
9 hearing, including the statutory requirements for
10 publication and notice to affected jurisdictions, as well
11 as the additional notice that was done pursuant to the
12 procedural order and the applicant's additional efforts.

13 A. (MR. HAZLE) We filed the CEC application on
14 July 24, 2023, and of course, that kicks off the public
15 notice process for these hearings here today. The first
16 step is to publish the notice of hearing in the newspaper
17 of general circulation. We use the Arizona Daily Sun for
18 the CEC notice, same as we did for the general outreach
19 advertisement ahead of the open house.

20 That advertisement ran on July 29 and
21 August 1st. The Arizona Daily Sun, of course, is the
22 newspaper of record for Coconino County. The notice of
23 hearing itself identifies a number of locations where
24 interested members of the public could go to read
25 physical copies of the CEC application, if they so chose.

1 Those locations are the Flagstaff Library Downtown near
2 City Hall, and the East Flagstaff Community Library on
3 the east side of town here. The library branch managers
4 confirmed receipt of the physical applications on
5 July 31st, and that e-mail screen grab on the far right
6 here is their confirmation that those applications were
7 received.

8 The notice of hearing was also sent to areas of
9 affected jurisdiction by certified mail. The areas of
10 affected jurisdiction are the Arizona State Land
11 Department and Coconino County. The certified mail
12 return receipts are in the public outreach summary
13 exhibit, which I believe is RWE-6.

14 Q. 4.

15 A. (MR. HAZLE) 4. Thank you, Mr. Acken. And those
16 are docketed on the file room as well.

17 Not specifically required by the administrative
18 rules, but as a general practice, we send out a
19 prehearing newsletter to the same mailing list that we
20 used for the open house. That prehearing notification
21 letter screenshotted on the right-hand screen basically
22 says CEC hearings are scheduled, they are coming up, we
23 include the date, time, and place, and a link to the
24 project website where interested individuals could find
25 the remote participation information.

1 Finally, we had two public notice signs
2 installed for this project, photographed here on the
3 right-hand screen. The public notice signs also included
4 the date, time, and place of CEC hearings, the docket
5 number, the project website. One of them was installed
6 on East Tubb Ranch Road, which is the main access road
7 off of U.S. 89 if you were going to travel back to the
8 wind project area.

9 The second public notice sign that we had
10 installed is actually located just off of the Arizona
11 Trail, which is why we kind of have this smaller format
12 sign here, given that we're not targeting motorists
13 driving 65, we kind of have a lower-key sign here
14 adjacent to the Arizona Trail.

15 Finally, we ran another prehearing Facebook
16 advertisement using the same target area to again try and
17 contact individuals in the area about CEC hearings. This
18 was linked to the project website, again, where the
19 remote participation links were available. This ad
20 reached approximately 1,700 unique accounts, was clicked
21 on 21 times, and shared once.

22 The last feature of our sort of the public
23 notice process is to update the project website with all
24 of the information that I've recapped so far, remote
25 participation links, date, time, and place of the CEC

1 application -- excuse me, CEC hearings. And also CEC
2 documents or key documents related to the process, so
3 that's, like, the application, the route tour, should --
4 should one happen, the prehearing conference transcripts,
5 pre-filing conference transcripts, those are all
6 available for direct download from the project website.

7 Q. Thank you, Mr. Hazle.

8 That concludes our testimony on public outreach
9 prior to the application and public notice in support of
10 the application. We're going to turn now to the final
11 subject of our testimony of our direct case, the
12 environmental resource analyses conducted in support of
13 the CEC application.

14 Mr. Hazle, provide an overview of the resource
15 analyses that your team conducted?

16 A. (MR. HAZLE) The resource analyses we conducted
17 are contained in the CEC application Exhibits A through
18 I. Those are -- oops, excuse me -- shown on the
19 left-hand screen here. I'll cover land use, visual,
20 cultural, and noise. And Mr. Brasier will cover
21 biological resources and recreation resources. Finally,
22 I'll offer my opinion as to the overall compatibility of
23 the interconnection project.

24 Q. Starting with land use, describe land ownership
25 and jurisdiction in the vicinity of the transmission line

1 project.

2 A. (MR. HAZLE) The Committee's heard some of this
3 in the overview testimony, but for the sake of the
4 record, we can provide a quick overview here. The
5 interconnection project and the wind project are both in
6 unincorporated Coconino County. So the County planning
7 and zoning board and County Board of Supervisors approve
8 land use entitlements for this project.

9 The project is sited on the CO Bar Ranch managed
10 by the Babbitt family here in Flagstaff. This is just a
11 portion of the CO Bar Ranch shown here on the right-hand
12 side. The Babbitt Ranch, of course, is comprised of a
13 checkerboard of state trust parcels and private property.
14 By area, the CEC corridor being the black outlined
15 polygon on the far right here is about 20 percent State
16 Trust Land, 80 percent private property.

17 The predominant land use in the vicinity of the
18 interconnection project is grazing range land associated
19 with the CO Bar Ranch. The next most prominent land use
20 is utilities, both renewable energy generation and
21 transmission. Earlier we described how there's another
22 wind energy project immediately to the west of the Forged
23 Ethic project, which is already under construction, so
24 you can see the sort of gray hatched area is designated
25 utilities under construction and the green area is range

1 land for the existing land uses. The County zoning
2 district is general, which is the zoning district that
3 the County uses for rural areas that are not designated
4 for more specific uses. Wind projects and transmission
5 lines are permissible in the general zoning district
6 through the County's Conditional Use Permit, and the
7 County's recently enacted Renewable Energy Ordinance,
8 which applies specifically to utility-scale renewable
9 energy projects.

10 As Ms. Comacho testified, we're in the process
11 of finalizing our CUP application and plan to submit that
12 in the coming months.

13 Q. Mr. Hazle, recently a new national monument was
14 designated near the Grand Canyon. Has your team
15 evaluated the potential effects, if any, associated with
16 that designation on the transmission line project?

17 A. The recent designation of the ancestral
18 footprints of the Grand Canyon National Monument, is a
19 topic that both SWCA and the RWE team are tracking
20 closely. As the Committee members are likely aware that
21 national monument was designated on August 8 and includes
22 tracks of national forest, both south and north of Grand
23 Canyon National Park.

24 This map excerpt here is directly from the White
25 House press release on the national monument designation

1 and outlines the portion of the Kaibab National Forest,
2 which was designated as the national monument.

3 The national monument designation does not
4 include any private property for Arizona State Trust
5 Land. The closest point of the interconnection project
6 to the national monument boundary is approximately six
7 miles, although, as you can see here, the wind project
8 boundary does border the national monument, as does the
9 CO Bar Ranch.

10 The County land use entitlement process, or CUP
11 process, does address setbacks from lands not otherwise
12 zoned by the County, which would include the national
13 monument. And setbacks from the national monument limits
14 will be addressed to the County's entitlement process.

15 It's our understanding that the federal agencies
16 involved in the national monument, including the Forest
17 Service and Bureau of Land Management will -- have yet to
18 begin the process of drafting and implementing a monument
19 management plan, which will articulate the specific
20 priorities and objectives that the federal government has
21 for this recently designated national monument.

22 Q. In preparing Exhibit A and the other exhibits in
23 the application, did you review Coconino County's plans
24 to evaluate future land uses in the area?

25 A. The main planning document that we review for

1 looking at planned land use is the Coconino County 2015
2 Comprehensive Plan. Like all of the comprehensive plans
3 in -- or for counties in Arizona, the comprehensive plan
4 is a policy document that sets aside or establishes what
5 the County's priorities are for long-range planning and
6 land development in its unincorporated area where the
7 County has jurisdiction.

8 To that end, the comprehensive plan designates
9 various land use prescriptions for unincorporated areas
10 of the county and the land use prescription for the
11 interconnection project is ranchland land uses. The
12 overarching policy objective for this land use
13 designation is to conserve working ranches, unfragmented
14 landscapes, and the county's rural character.

15 RWE is working closely with the Babbitt family
16 to site the interconnection project in a manner that is
17 consistent with the ongoing use of the CO Bar Ranch for
18 cattle grazing. The comprehensive plan also has a
19 section on energy policies, one of which bulleted here on
20 the left-hand screen is a statement that reliable, clean
21 energy is critical to the health, safety, and welfare of
22 residents in Coconino County. The interconnection
23 project is consistent with these key policy objectives
24 articulated in the comprehensive plan. And as I
25 previously mentioned there are no amendments to the

1 comprehensive plan required to permit and construct this
2 project.

3 Q. So Exhibit H to the Commission's rules governing
4 CEC applications requires applicants to identify, "The
5 existing plans of the state, local government, and
6 private entities for other developments at or in the
7 vicinity of the proposed route."

8 You touched on this earlier in discussing the
9 other renewable energy developments in the project area,
10 but just -- so now maybe just provide a real high
11 overview of those projects.

12 A. (MR. HAZLE) The other three renewable energy
13 projects are, again, west of the Forged Ethic Wind Energy
14 Project, so on the CO Bar Ranch between Forged Ethic and
15 U.S. 180. Each of these projects are in different stages
16 of planning and permitting and construction.

17 Again, Babbitt Ranch Energy Center is under
18 construction with CO Bar Solar Complex and the 1886
19 energy station, both in planning and permitting. Of
20 course, all three of these projects or rather all four of
21 them have the same point of interconnection to the APS
22 Switchyard.

23 With respect to plans of the local and state
24 government, the way we endeavor to identify those plans
25 is by sending a direct outreach letter to, you know, a

1 broad stakeholder group of private -- or, excuse me, of
2 public entities, and we just ask them, what -- what -- do
3 you have any knowledge of plans for development in the
4 vicinity of this project?

5 So the stakeholder list is again repeated here
6 on the right-hand screen. That letter was sent on May
7 26th, and we received a reply from the Arizona Game &
8 Fish Department. Their reply did not include any known
9 plans for development, but included, rather, sort of a
10 standard set of mitigation measures that the Game & Fish
11 Department tends to recommend on utility-scale energy
12 projects. Mr. Brasier will cover that comment letter in
13 his testimony.

14 The U.S. Forest Service provided a comment
15 letter that was predominantly concerned with the Arizona
16 Trail. The Forest Service has management
17 responsibilities for the Arizona Trail where the trail is
18 on Forest Service land. So you can see on this map here
19 the Arizona Trail is this darker green trace, and
20 it -- you know, it trends north/south across the extent
21 of this map. Where it crosses the CO Bar Ranch, the
22 Arizona Trail sort of weaves through private sections of
23 property, so the Babbitt family accommodated the Arizona
24 Trail where it crossed their ranchland.

25 The Forest Service letter did acknowledge that

1 the interconnection project and wind project would be
2 constructed on State Trust Land and private property
3 where their management authority and responsibilities
4 don't extend. Nevertheless, the Forest Service noted
5 that they're in the process of developing a comprehensive
6 plan for the Arizona Trail, which they anticipate will be
7 released in early 2024.

8 And the Forest Service noted that as part of
9 that comprehensive plan, they're going to have a planning
10 corridor, which extends a half mile on each side of the
11 Arizona Trail. The Forest Service requested that project
12 facilities be located outside of that planning corridor,
13 to the extent possible. As we've noted in our earlier
14 testimony today, RWE's in the process of selecting newer,
15 more efficient wind turbine, which will allow RWE to use
16 fewer turbine locations than are shown on this
17 preliminary layout here on the right-hand screen.

18 RWE's going through a process of what they call
19 down-selecting the turbine array. And that basically
20 means only going with the priority turbine locations. As
21 part of that down-selecting process, RWE is looking at,
22 you know, how far they can set back their turbine
23 locations from the Arizona Trail.

24 This current preliminary layout does show all of
25 the turbines set back a quarter mile from the Arizona

1 Trail, which is consistent with the Coconino County
2 Renewable Energy Ordinance.

3 CHMN STAFFORD: Member Kryder, you had a
4 question.

5 MEMBER KRYDER: One very quick question,
6 Mr. Hazle. When you're setting your structures for the
7 gen-tie line and the trail is now going to potentially
8 have a (inaudible) --

9 THE REPORTER: I'm sorry?

10 CHMN STAFFORD: Microphone.

11 MEMBER KRYDER: Oh, I'm sorry, thank you.
12 The trail was going to get a corridor of
13 how wide?

14 MR. HAZLE: One-half mile on each side of
15 the trail.

16 MEMBER KRYDER: Okay. And your structures
17 will avoid that wherever possible, I mean, you'll get as
18 far away from it as you can or how do you do that?

19 MR. HAZLE: Yeah, so there's two components
20 here. There's the transmission project, so the gen-tie
21 structure is in the project substation, and then the wind
22 turbines themselves. So the transmission line will have,
23 you know, structured space at that distance that
24 Mr. Nelson testified, approximately 600 feet apart to
25 1,300 feet, so the transmission structures will

1 necessarily be within that one-mile planning corridor
2 that the Forest Service is establishing.

3 MEMBER KRYDER: Okay. So with the
4 1,300 feet you can pretty easily straddle this thing and
5 not touch it? Okay.

6 MR. HAZLE: Yes, the conductors themselves
7 will go overhead and will be immediately adjacent to
8 where the existing transmission lines already cross the
9 path.

10 MEMBER KRYDER: Okay. Thank you very much.

11 MEMBER GOLD: Mr. Chairman?

12 CHMN STAFFORD: Member Gold.

13 MEMBER GOLD: Just a dumb question, what is
14 the Arizona Trail?

15 MR. HAZLE: The Arizona Trail is a -- I
16 think it's actually a national scenic trail that
17 traverses the whole state of Arizona north to south.

18 MEMBER GOLD: It says it's on private
19 property --

20 MR. HAZLE: Well, this segment here -- oh,
21 excuse me?

22 MEMBER GOLD: Does that mean people are not
23 allowed on it?

24 MR. HAZLE: The trail through the Babbitt
25 Ranches is on private property. And the Babbitt family,

1 you know, allows recreationists to cross their ranch on
2 the Arizona Trail through an agreement that the Babbitts
3 reached with the Arizona Trail Association.

4 MEMBER GOLD: Doesn't seem to be a major
5 issue. Is it used much?

6 MR. HAZLE: Yeah, it is used. And, you
7 know, I didn't want to make a big issue out of it, I was
8 more just disclosing the comment letters that we received
9 as part of our outreach.

10 MEMBER GOLD: Okay. Thank you.

11 MEMBER KRYDER: Member Gold, the Anza Trail
12 that goes down through Tucson and down to the Mexico
13 border is a part of this overall thing.

14 MEMBER GOLD: Is it used much was my
15 question.

16 MEMBER KRYDER: Oh, depends on whether
17 you're on horseback, or bicycle or foot. Yes, all sorts.

18 MEMBER GOLD: Okay.

19 BY MR. ACKEN:

20 Q. And if I could follow up on the Committee
21 members' questions, I thought that question about the
22 private land was interesting.

23 So just to confirm, the Arizona Trail is located
24 on private lands owned by Babbitt Ranches; is that
25 correct?

1 A. (MR. HAZLE) Yes.

2 Q. And Babbitt Ranches is supportive of the trail
3 on their lands, otherwise it wouldn't be there; is that
4 correct?

5 A. (MR. HAZLE) Yes.

6 Q. And Babbitt Ranches is also very supportive of
7 this project; is that correct?

8 A. (MR. HAZLE) Yes.

9 MEMBER GOLD: Seems like everybody is in
10 support.

11 BY MR. ACKEN:

12 Q. Thank you.

13 Please continue.

14 A. (MR. HAZLE) Overall, the project is consistent
15 with both planned and existing land uses in the vicinity
16 of the transmission -- or excuse me -- in the vicinity of
17 the interconnection project. It would be immediately
18 adjacent to two -- oops -- two existing transmission
19 lines and, you know, represent an overall consolidation
20 of electrical infrastructure.

21 The project is compatible with the planned land
22 use or, rather, the sort of transitioning from planned to
23 reality of the neighboring energy project to the west.
24 And, finally, the project is compatible with the range
25 land -- range land grazing use of the CO Bar Ranch.

1 Q. Thank you, Mr. Hazle, for presenting your
2 resource analyses regarding land use that are covered in
3 Exhibits A, somewhat in B, and then H.

4 Let's talk about what else is covered in Exhibit
5 B, which requires applicants to provide any other studies
6 prepared or obtained in connection with the proposed
7 development. As I mentioned in my opening, that this is
8 a rather robust application, so I'm hopeful that you can
9 establish testimony to support that statement.

10 A. (MR. HAZLE) In keeping with the requirement of
11 Exhibit B to disclose other environmental studies related
12 to the gen-tie, we included several of the past
13 environmental studies that SWCA's completed since 2020,
14 when we first started studying the area for the wind
15 project.

16 Many of these studies are focused on the wind
17 project itself, but have project areas that overlap with
18 the generation-tie corridor or outright include the
19 gen-tie corridor. Generally, if a study -- if a study
20 area overlapped this gen-tie corridor, we included it in
21 Exhibit B simply because the information contained in
22 those studies informs the overall characterization of the
23 environment.

24 So you can see we have a pretty extensive list
25 of past studies. Many of these are specific avian use

1 studies that we conduct in keeping with U.S. Fish &
2 Wildlife Service, guidance for wind energy projects, or
3 land-based wind energy projects. So we've studied eagle
4 and raptor movements and nests. We've looked at bat
5 patterns in the area. We've done habitat
6 characterizations. We've looked at, you know, wash
7 features, aquatic features that are jurisdictional to the
8 Clean Water Act. We've done native plant inventories,
9 and we've inventoried cultural resources out here.

10 So the CEC application that we have, you know,
11 focuses on the gen-tie corridor itself, but is really
12 drawing on a deep foundation of environmental studies
13 that have been going on for quite some time to support
14 the wind project overall.

15 Ms. Comacho touched on the NEPA requirement.
16 That's specifically called out in the requirement for
17 Exhibit B. The U.S. Bureau of Reclamation is the lead
18 agency for the NEPA process, and they will formally
19 kickoff the EA, or what we expect will be an
20 environmental assessment, as soon as the System Impact
21 Study is released. The reason that Reclamation waits for
22 the SIS is because, you know, if there's other
23 transmission system upgrades that are triggered by the
24 project, those are, you know, considered connected to the
25 main project being the transmission line and will be

1 included in the scope of the environmental analysis for
2 NEPA review.

3 SWCA is preparing that environmental assessment.
4 We've done as much leg work as we can to get that
5 document prepared ahead of Reclamation's formal kickoff
6 of the process.

7 Q. Thank you, Mr. Hazle.

8 Mr. Brasier, you've been very patient. Will you
9 describe for the Committee the biological resource
10 analyses you conducted for the project?

11 A. (MR. BRASIER) Sure.

12 So Mr. Hazle listed off a number of the studies
13 we did. Before going out into the field for these, we
14 typically begin with a desktop review. That involves
15 consulting public databases, including the U.S. Fish &
16 Wildlife Service's information for planning and
17 consultation, and the Arizona Game & Fish Department's
18 online environmental review tool. Those reports are used
19 to identify the potential for areas of biological wealth
20 and special status species.

21 After the desktop reviews, we go out to do our
22 field work, which began in 2020. As Mr. Hazle mentioned,
23 these studies included the wind project, as well as the
24 gen-tie corridor, in most cases. You can see a complete
25 list of them there on the right-hand side of the screen,

1 and they've been included with the CEC application as
2 Exhibit B.

3 Q. Mr. Brasier, Mr. Hazle referenced a comment
4 letter received from Game & Fish, and said that you would
5 provide some testimony regarding that, so please do.
6 Please describe Game & Fish correspondence and the
7 further communications with the agency.

8 A. (MR. BRASIER) Yes, so as previously mentioned,
9 AGFD was included in the mailing list for the project --
10 excuse me -- and they provided a response to the letter
11 they were sent on July 13, 2023, which is included as
12 Exhibit H-3. The comment letter from AGFD largely
13 focused on the wind facility, but it also included
14 general best management practices for construction.

15 Many of AGFD's recommended best management
16 practices, such as complying with APLIC guidelines, are
17 incorporated into the mitigation measures identified in
18 Exhibit C.

19 Q. Now I'd like you to take a few moments and paint
20 the picture of the biological setting of this area for
21 the Committee.

22 A. (MR. BRASIER) Yes.

23 The interconnection project is situated in a
24 semi-desert shrub-step landscape, which is interspersed
25 with patches of juniper woodlands and arid grasslands.

1 There are no perennial surface waters present in the
2 study area or surrounding 20 miles. There is one
3 ephemeral earthen stock tank that intersects the gen-tie
4 corridor, and there are several other stock tanks
5 scattered throughout the surrounding ranchland.

6 Q. Did you identify any areas of biological wealth
7 in the study area?

8 A. (MR. BRASIER) There are no designated critical
9 habitats or ESA-listed species in the study area nor are
10 there any important bird areas. The AGFD online
11 environmental review tool identified several wildlife
12 movement corridors that intersect the interconnection
13 project.

14 The AGFD also noted in their comment letter that
15 the area between the San Francisco Peaks and the south
16 rim of the Grand Canyon is an important wildlife movement
17 corridor for large mammals, such as mule deer and
18 pronghorn. Given that the interconnection project will
19 not involve a perimeter fence along the right-of-way, the
20 gen-tie is not expected to inhibit wildlife movement.

21 MEMBER KRYDER: Mr. Chairman?

22 CHMN STAFFORD: Yes, Member Kryder.

23 MEMBER KRYDER: I have one informational
24 piece. How big is big? How small is small?

25 MR. BRASIER: In relation to what, sir?

1 MEMBER KRYDER: In relation to -- I'm
2 looking at page C-13 of Exhibit Charlie, C, where it
3 talks about the Monarch butterfly and some of the things
4 that were caught in the letter from Fish & Wildlife, I
5 guess. And it makes two statements that I found
6 interesting, and thus, the basis of my question. It
7 says, as you just stated, "No areas of biological wealth
8 were identified within the study area." Okay, that's
9 interesting. And then under Monarch butterfly it says,
10 "A relatively small amount of suitable habitat for the
11 Monarch butterfly would be permanently lost, because of
12 the interconnection project."

13 And then going down below it talks again
14 under burrow-dwelling species, that there would be some
15 permanent losing of relatively small amount of habitat.
16 So that was my question. How big is big; how small is
17 small?

18 MR. BRASIER: I see. I can clarify it.
19 We'll have some more testimony coming up on the Monarch
20 butterfly shortly, but in general, when we refer to a
21 small amount of permanent habitat loss, we're speaking
22 specifically about infrastructure that would be on the
23 landscape over the 35-year operations period, so in this
24 case for a gen-tie line permanent impacts would typically
25 be limited to the footprint of the gen-tie structures

1 themselves.

2 MEMBER KRYDER: And as we were looking at
3 the virtual picture of it going through, under the
4 existing lines and I'm making a leap to assume, please
5 correct me if I'm wrong, the same would take place under
6 the proposed gen-tie line, it would -- it looked like an
7 end loader went through and took all of the vegetation
8 out, and so on, and then maybe -- and then I got some
9 confusing information. It said that there would be,
10 after that was done, then there would be some native
11 grasses put back or something in an attempt to not
12 scatter the weed seed from hither to yon, this -- play
13 some of that for me.

14 MR. BRASIER: No, that's correct. So
15 typically we would think of those as temporary
16 construction impacts. So during construction there will
17 be much more grading and clearing to provide work sites
18 for the structure installation, as well as conductor
19 stringing and other activities, and that will certainly
20 remove a larger amount of vegetation. But you're correct
21 that after construction the plan would be to rehabilitate
22 and revegetate those temporarily disturbed areas. We
23 usually use a native weeds -- weed-free seed mix that
24 would help reestablish that native vegetation.

25 It may look a little bit altered as you saw

1 with the existing transmission lines, but it certainly
2 provides some vegetation, and over time you would expect
3 that to recover.

4 MEMBER KRYDER: I do some hunting out in
5 that area under some transmission lines, I'm not even
6 sure which one, or which ones, and mesquite, of course,
7 is the hot dog that seems to jump in and want to take
8 over. So whoever's managing that section comes through
9 from time to time and clears the mesquite out. Is that
10 all a part of this sort of a plan too, that on -- you're
11 looking at, what, a 30-year line I believe we've talked
12 about, will somebody in 10 years say, "Well, it's time to
13 go out and clear the mesquite and some of the other trash
14 and so on"? What's the long -- longer term than
15 immediately getting the line in place?

16 MR. BRASIER: Sure.

17 RWE might be able to speak to some of those
18 requirements better. I know vegetation management around
19 transmission lines is regulated to a certain extent to
20 provide clearances for fire safety and then, of course,
21 typically implement noxious weed control measures and the
22 sort, but if you want to add anything to that.

23 MR. NELSON: Yeah, I guess I don't have
24 much to add, but as -- as the long-term owner/operator
25 that would be -- that would fall under the RWE, kind of,

1 to do over the long term is to do exactly what was just
2 said.

3 MEMBER KRYDER: And there are regulations
4 that say you've got to keep it down at this level or is
5 it just common sense or what -- how does that work?

6 MR. NELSON: I think we're confirming if
7 there is specific in the ordinance or not. We'll confirm
8 if there's specific requirements in the ordinance.

9 MEMBER KRYDER: Thanks so much. I wondered
10 what caused the guys to get out there and they'd cut the
11 mesquite and lay it aside and I take it home and burn it,
12 heck of a deal.

13 MR. BRASIER: Sure. In this case it might
14 also be helpful to note that the existing area under the
15 proposed gen-tie route is currently pretty sparsely
16 vegetated. There is some pinyon-juniper woodlands in the
17 surrounding area, but I wouldn't expect much in the way
18 of tree removal or large vegetation to clear out space
19 for this gen-tie.

20 MEMBER KRYDER: Thank you. Thank you so
21 much.

22 MR. BRASIER: No problem.

23 MR. ACKEN: Thank you, Chairman Kryder.
24 And I think -- I don't want to jump ahead in the
25 presentation too much, but when we get to the discussion

1 of visual resources and Mr. Hazle's testimony and some of
2 the simulations and photos, we'll again show what the
3 vegetation looks like in this area, as opposed to some
4 more heavily forested areas that you would have to take
5 out more vegetation.

6 Q. I wanted to follow up, I think, and it's a great
7 segue, on the question about Monarchs. Talk about
8 endangered species generally and then Monarchs as a
9 candidate species.

10 A. (MR. BRASIER) Sure.

11 So the interconnection project is either outside
12 the known range of listed, threatened, and endangered
13 species or it does not contain suitable habitat for them.
14 ESA-listed species will also be evaluated as part of the
15 NEPA process.

16 Monarch butterfly, which is a candidate for ESA
17 listing, may occur in the study area. Milkweed, which is
18 important for egg laying for Monarchs, as well as for
19 foraging resources have been observed in the area. As we
20 discussed, there would be some impacts during
21 construction from vegetation clearing, but we would not
22 expect this to impact Monarchs at a population level,
23 although individual Monarchs could be impacted by that.
24 But we would mostly expect individual Monarchs to shift
25 their habitat use to nearby undisturbed areas.

1 Q. What about bald and golden eagles?

2 A. (MR. BRASIER) So the interconnection project is
3 within the year-round range for the golden eagle, and
4 foraging habitat for the species is present. The golden
5 eagle has been observed in the study area during the
6 avian use surveys and other investigations for the wind
7 project.

8 It's important to note that most of Northern
9 Arizona is considered year-round range for golden eagles,
10 however, we generally expect more golden eagles in this
11 area during the fall and winter. As for bald eagles, the
12 study area does not contain any characteristic nesting or
13 roosting habitat, which typically consists of large trees
14 or cliffs within one mile of large open bodies of water.

15 However, bald eagles have been observed in the
16 study area during the avian use surveys for the wind
17 project. And secondary food resources, such as carrion
18 may be present in the study area. Overall, bald eagles
19 are less likely to occur in the study area than golden
20 eagles are.

21 And with the implementation of mitigation
22 measures, such as the APLIC guidelines, which will be
23 described on the next slide, there's a low potential for
24 the interconnection project to impact either the bald or
25 golden eagle.

1 Q. Let's discuss those mitigation measures. You
2 touched on them earlier in response to Committee member
3 questions, but I'd like you to go into more depth on what
4 those proposed measures are.

5 A. (MR. BRASIER) Yes. RWE plans to implement
6 mitigation measures, such as pre-construction burrow
7 surveys and migratory bird nest surveys, installing
8 wildlife escape ramps and trenches. And as I mentioned,
9 designing the transmission line in accordance with APLIC
10 guidelines, as well as a number of other construction
11 best management practices listed in Exhibit C.

12 Q. With the implementation of those mitigation
13 measures and the resource analyses you conducted, what
14 are your conclusions with regards to this project's
15 compatibility for biological resources?

16 A. (MR. BRASIER) The interconnection project is not
17 likely to significantly impact any special status species
18 or areas of biological wealth. It's not expected that
19 the gen-tie line would inhibit wildlife movement through
20 the area. And other than the wildlife linkages
21 identified by AGFD, there are no other areas of
22 biological wealth in the study area and surrounding
23 vicinity.

24 As I mentioned, RWE plans to implement
25 appropriate mitigation measures, including construction

1 best management practices, therefore, the interconnection
2 project is compatible with biological resources.

3 MEMBER LITTLE: Mr. Chairman?

4 CHMN STAFFORD: Yes, Member Little.

5 MEMBER LITTLE: I just have a question just
6 for my own edification, what are accipiters and buteos?

7 MR. BRASIER: Oh, sure. I'm the resident
8 bird nerd, so I'm the right person to ask. Accipiters
9 and buteos are basically a subgroup of raptors or large
10 birds of prey. So accipiters would be small falcons like
11 prairie falcons or American kestrels. And buteos are
12 large round-winged hawks, like a red-tailed hawk or a
13 Swainson's hawk, something like that.

14 MEMBER LITTLE: Thank you.

15 MR. BRASIER: Uh-huh.

16 MR. ACKEN: Today we learned, right?

17 MEMBER LITTLE: Yup.

18 MR. ACKEN: Thank you, Mr. Brasier.

19 Q. Turning back now to Mr. Hazle. I'd like you to
20 describe your evaluation process for visual resources.

21 A. (MR. HAZLE) The visual resources analysis
22 follows a typical three-step process, you know, initially
23 we kind of canvassed the area to look for, you know, what
24 sensitive views or viewers might be present in the area.
25 We also characterized the visual setting of the, you

1 know, vicinity around the project area. And then we
2 physically go to those sensitive viewing locations and
3 take photographs facing toward the project of -- to
4 capture sort of existing conditions and then use computer
5 modeling software to develop realistic scaled models of
6 the project facilities superimposed on those existing
7 conditions photos to give the viewers a sense for, you
8 know, what the project will look like when it's actually
9 constructed in the landscape. We use those photo
10 simulations as the basis for our visual resources
11 analysis in Exhibit E.

12 Q. Mr. Hazle, before you dive in and present the
13 simulations, I'd like you to describe to the Committee
14 and for the record what is contained in exhibit that has
15 been marked RWE-8, which is entitled, "Technical
16 Memorandum," and it's dated August 23rd, 2023.

17 A. (MR. HAZLE) Thank you, Mr. Acken.

18 RWE-8 contains an update to Exhibit E. In
19 preparing for CEC hearings, I identified two corrections
20 that needed to be made, one to our visual resources photo
21 simulations and one to our cultural resources analysis.

22 After identifying those corrections, I worked
23 with our resource leads to update the photo simulation
24 and revise the cultural resources section to note those
25 updates. For the cultural resources portion, I

1 personally called the State Historic Preservation Office
2 staff to notify them that, you know, what was contained
3 in the SHPO consultation letter had a minor correction
4 that needed to be made. We'll cover that in more detail
5 in the cultural resources testimony. But the SHPO
6 appreciated the update and did not have any concerns
7 about the error.

8 So that's contained in RWE-8. Happy to answer
9 any questions about it, but the testimony that I'll give
10 on visual and cultural resources will be inclusive of the
11 updates described in that exhibit.

12 Q. And just as a reminder for the Committee, it's a
13 bit odd that Exhibit E includes both visual and cultural
14 resources; is that correct, Mr. Hazle?

15 A. (MR. HAZLE) Yes, it is.

16 Q. All right. Please continue with your discussion
17 of the visual simulations.

18 MEMBER RICHINS: Chairman?

19 CHMN STAFFORD: Yes, Member Richins.

20 MEMBER RICHINS: I was just wondering if I
21 could get a quick clarification. I know I missed your
22 opening, Mr. Acken, and I'm assuming that you probably
23 referenced this in your opening, but there's several
24 exhibits that are labeled "Zeus," and I'm assuming that's
25 a former working title for this project, but there's

1 still dangling participles of that within the project
2 record, and I just wanted to make sure we got on the
3 record the clarification that the exhibits labeled "Zeus"
4 were indeed for Forged Ethic that we're reviewing today.

5 MR. ACKEN: Member Richins, thank you for
6 catching that. It's funny, you know, I started calling
7 this project Zeus initially, but now it's been Forged
8 Ethic for so long, I glide right by that. So no, I
9 didn't address it in my opening, nor did I ask one of my
10 witnesses to explain that.

11 Q. So I would ask at this time for the RWE team to
12 explain the name change and what I think is a pretty cool
13 story for the name "Forged Ethic."

14 MS. COMACHO: Sure.

15 MEMBER RICHINS: Thank you.

16 MS. COMACHO: So the project -- the project
17 name changed before my time, but it's my understanding
18 that, in conversations with the landowner, their family
19 motto is "Forged Ethic." So it was requested that we
20 change the name to the Forged Ethic, and so we went ahead
21 and did that. So it really has a great history with the
22 family, and with the project, so --

23 BY MR. ACKEN:

24 Q. Thank you, Ms. Comacho.

25 And Forged Ethic it's basically the ranch

1 slogan, if you will?

2 A. (MS. COMACHO) Yeah. The family motto and ranch
3 slogan.

4 Q. Family motto. Thank you.

5 MEMBER RICHINS: Very good. So for the
6 record, all exhibits labeled "Zeus" were the working
7 title of the original, but all of that research is indeed
8 applied to the Forged Ethic project; is that correct?

9 MS. COMACHO: That's correct.

10 MEMBER RICHINS: Thank you.

11 MR. ACKEN: Thank you, Mr. Richins for
12 helping us with the record. Yes, we can -- it's Forged
13 Ethic, formerly known as Zeus. We will refer to it as
14 Forged Ethic. But no, thank you so much for making sure
15 our record is clear on that point.

16 MEMBER KRYDER: Mr. Chairman?

17 CHMN STAFFORD: Yes, Member Kryder.

18 MEMBER KRYDER: Just a follow-up on
19 Mr. Richins' comments about the name. I found it a
20 fascinating name. And do you know anything -- I know
21 this is a long way from a gen-tie line question -- what
22 are we trying to say? Are we forging as in I sign a bad
23 check or are we forging as in making horseshoes on a --
24 on a forge? What's the background? Do you have any
25 idea.

1 MS. COMACHO: No, unfortunately, I don't
2 have as much background on this as the original
3 developer, but I could certainly ask that question.

4 MEMBER KRYDER: You don't need to bend the
5 needle and try to find out, but if you do find out, I
6 would be interested. I saw that and I saw, "My goodness,
7 this is one I would throw in the tank, I wouldn't use."
8 But Zeus sounds a whole lot better to me.

9 Thanks, Mr. Chairman.

10 MR. ACKEN: Thank you, Member Kryder.

11 I will avow that it is forged as in forged
12 in steel and associated with the long-term
13 ranch -- ranching use of the area, rather than forging in
14 the negative connotation. But I'll get someone to
15 confirm that on the record for you. But I hadn't thought
16 about that before. That's funny. Thank you.

17 Q. Okay. Mr. Hazle, please -- please discuss the
18 visual simulation.

19 A. (MR. HAZLE) Just a quick explanation of the
20 visual setting for this project area. We're out here on
21 the San Francisco plateau, that's the sort of
22 broad -- broad name for the land between the San
23 Francisco Peaks and the Grand Canyon. Sort of the
24 characteristics of that area are small, shallow canyons,
25 rounded hills, flat or gently rolling plains, and

1 volcanic escarpments.

2 Additionally, if any of the members are familiar
3 with this area, there's a number of cinder cone land
4 features out here on the CO Bar Ranch that are, in my
5 opinion, pretty cool looking at least. There's a
6 generally low stature vegetation, as Mr. Brasier
7 testified, mainly grasses and pinyon-juniper forest.

8 The three visual simulations we picked represent
9 recreational views from the Arizona Trail, so both KOP-1
10 and 3 both focus on, you know, how the project might
11 appear from the Arizona Trail, both facing north and sort
12 of east/southeast, and then one location from U.S. 180,
13 which would represent sort of what drivers on 180 might
14 see as they pass through this area.

15 The viewing distances from the transmission line
16 are on the left-hand screen here ranging from a quarter
17 mile at KOP-3 to 5.7 miles from U.S. 180. The first key
18 observation point is from the Arizona Trail facing
19 east/southeast. You can see one of those cinder cone
20 features that I mentioned earlier, this is referred to as
21 "Mesa Butte." And the transmission line will pass kind
22 of in front of Mesa Butte here. So even though the
23 structures would be in an open area and would not be
24 screened by intervening vegetation, the structures would
25 be quite difficult to discern against the darker

1 background of Mesa Butte here.

2 So overall our conclusions for the KOP-1 photo
3 simulation are that there would be a weak degree of
4 contrast created by the project and low visual impacts.

5 CHMN STAFFORD: Now, that was the view from
6 the trail?

7 MR. HAZLE: That's the first of two,
8 correct.

9 CHMN STAFFORD: Okay. Now, those are the
10 wind turbines you're showing, right? What's the distance
11 of those from the trail in this shot?

12 MR. HAZLE: I might have that in the
13 application here, if you bear with me for one second. I
14 can look that up on my computer on break, but I don't
15 have that information at hand.

16 CHMN STAFFORD: Okay. Because I was
17 wondering, because I think I could have sworn I just
18 heard that the trail association's working on a plan and
19 they're going to have a setback, I think a mile on each
20 side of the trail, that obviously, it's not going to
21 apply to the transmission line because it has to cross
22 it. And it's going to cross where the other line's
23 already crossed.

24 But I was just curious about, like, if that
25 would affect the placement of the turbines, and then if

1 that -- was that taken into consideration for this
2 photograph or not?

3 MR. HAZLE: Yeah, I understand. This
4 photograph is -- uses a preliminary layout of the wind
5 turbine array. And the preliminary layout uses a quarter
6 mile setback from the Arizona Trail, so half-mile
7 corridor on each side -- or, you know, around the trail
8 with quarter mile on each side.

9 That's what the Coconino County Renewable
10 Energy Ordinance requires. The Forest Service is
11 developing a comprehensive plan that includes that wider
12 half mile on each side of the trail. And as RWE
13 finalizes its updated turbine array, they will attempt to
14 set those turbine locations outside of the Forest
15 Service-requested half-mile setback.

16 CHMN STAFFORD: Okay. So that came after
17 this was projected, though --

18 MR. HAZLE: Thank you.

19 CHMN STAFFORD: -- so it seems like these
20 ones are probably likely a quarter mile from the trail,
21 then?

22 MR. HAZLE: Yeah, what you're seeing in the
23 CEC application and on the screen is a quarter mile from
24 the trail.

25 CHMN STAFFORD: Thank you.

1 BY MR. ACKEN:

2 Q. And, Mr. Hazle, I think you got this, but I want
3 to make sure the record is real clear on this point,
4 because I was confused initially. The Arizona Trail
5 planning corridor is how wide?

6 A. (MR. HAZLE) One mile wide.

7 Q. So that's a half mile on either side of the
8 trail; is that correct?

9 A. (MR. HAZLE) Yes.

10 Q. Okay. Thank you.

11 And then when you're describing the simulations,
12 there's a couple things I want to follow up with, one,
13 you know, there was the question from Member Kryder
14 regarding the vegetation and the biology discussion. Is
15 the vegetation that will be shown in these simulations
16 representative of the vegetation in this area?

17 A. (MR. HAZLE) It is, yeah. This is grasslands
18 with low stature -- Mr. Brasier, what would you call
19 these?

20 A. (MR. BRASIER) Those look like juniper from here.
21 It's hard to tell.

22 A. (MR. HAZLE) And that's very typical of the
23 vicinity of the interconnection project.

24 Q. Okay. Please continue.

25 A. KOP-2 is from U.S. 180, so it's sort of a key

1 travel route in the area and, you know, we endeavored to
2 find a location along U.S. 180 where the project would be
3 visible. So we have a viewing distance of about 6 miles
4 here, and, you know, for the Committee's benefit, you
5 know, we have the sort of regular scale of the project
6 area where you can see, you know, wind turbines on the
7 horizon, and then we have sort of a zoom-in capture area
8 that goes in about 50 percent and just tries to
9 highlight, you know, the difficulty of discerning
10 individual transmission structures.

11 My hope here was that you would be able to
12 actually see some of the individual transmission
13 structures, but I guess you need to be on a laptop screen
14 and really zoom in on it. But there are structures
15 simulated into the horizon here.

16 Our conclusion for travel route viewers on 180
17 is that, again, the interconnection project would be
18 difficult to discern at this location, and would have low
19 visual impacts. The other factor that's important to
20 consider for travel route viewers is their speed that
21 they're traveling down the highway, as we call that like
22 a short duration view, and that makes it even more
23 difficult to sort of pick out individual features on the
24 horizon at farther distances.

25 The third, and perhaps most interesting

1 simulation, is from the Arizona Trail facing north, and
2 this is right where the trail would cross beneath the
3 existing Moenkopi lines and will cross beneath the Forged
4 Ethic gen-tie. So you can see we have the Moenkopi
5 structure here and then a simulated H-frame for the
6 transmission structure -- excuse me -- for the
7 interconnection project. And then a little farther out
8 on the horizon are simulated structures for the
9 collection substation.

10 So at this location the new features would be
11 plainly visible and would, in fact, be skylined, as we
12 would call that, so it's like the structures are visible
13 against the horizon, which makes them a little bit more
14 apparent. However, given that there are already
15 transmission structures in the viewshed from this portion
16 of the Arizona Trail, we feel that we've minimized visual
17 resources by siting the interconnection project as close
18 to the existing Moenkopi line as we could.

19 So, overall, at this location we would have a
20 moderate degree of contrast and moderate visual impacts,
21 however, the new structures would appear similar to the
22 existing transmission infrastructure.

23 Q. What are your overall conclusions with respect
24 to the project's compatibility for visual resources?

25 A. (MR. HAZLE) The interconnection project would be

1 similar in form, scale, and color as the existing
2 Moenkopi-to-Cedar Mountain transmission line structures.
3 From the vantage points that represent sensitive views
4 described in the CEC application, we would have low
5 visual impacts and the interconnection project overall
6 would be compatible with visual resources.

7 Q. Thank you.

8 Let's turn next to the other resource that's
9 addressed in Exhibit E, cultural resources, and describe
10 your evaluation.

11 A. (MR. HAZLE) The CEC application, Exhibit E,
12 contains a summary of past cultural resources inventories
13 within one mile of the CEC corridor. So that's that
14 one-mile study area. Table E-2 of the CEC application
15 identifies all of the eligible cultural sites within that
16 one-mile study area and the distances between those sites
17 and the CEC corridor.

18 The correction I mentioned in Exhibit E was
19 that, as filed in the application, I mistakenly noted
20 that a site was 500 feet outside of the CEC corridor
21 when, in fact, it is just inside of the CEC corridor.

22 RW --

23 CHMN STAFFORD: Corridor or study area?

24 MR. HAZLE: Corridor. So the corridor
25 being the black area -- black polygon that we're

1 requesting approval for today.

2 CHMN STAFFORD: Okay. That's -- oh, for
3 the switchyard, because that's a bigger corridor than 300
4 feet for the line, correct?

5 MR. HAZLE: Yeah, correct. The corridor
6 gets a little wider here at the west end.

7 So there's one site inside of the CEC
8 corridor, and RWE has confirmed that they plan to avoid
9 that site through project design. So they will place
10 transmission structures and other permanent facilities
11 outside the limits of that known cultural site. The
12 other important feature to note about the resource study
13 for Exhibit E here is that 100 percent of the CEC
14 corridor has been surveyed to modern standards for
15 cultural resources.

16 So within the corridor we are requesting
17 today, we have an extremely high degree of confidence in
18 the location and presence of cultural resources, and have
19 a high degree of confidence in our ability to say that we
20 will avoid cultural resources for this project.

21 It's also worth noting that cultural
22 resources will be -- a cultural resources report will be
23 submitted to ASLD as part of the right-of-way
24 application. And prior to issuing a right-of-way, the
25 ASLD will consult with the SHPO prior to taking that

1 action. So SHPO will see this project multiple times
2 from different contexts.

3 Q. And, Mr. Hazle, before you get to your
4 conclusions, talk about Exhibit -- what's been marked
5 RWE-9, which is SHPO correspondence.

6 A. (MR. HAZLE) We submitted a SHPO consultation
7 letter on July 21, shortly before filing our CEC
8 application. The SHPO has a checklist for, you know,
9 information that they want as it relates to CEC
10 applications, and we packaged all that information up
11 into a letter, sent it to their office for review.

12 This letter contains the same information as was
13 in Exhibit E of the CEC application. The only difference
14 is that when we send the SHPO consultation letter, we
15 actually include maps of where those sites are, whereas
16 in the application we do not include maps of cultural
17 resources.

18 The SHPO replied to our consultation letter a
19 couple of weeks ago in August, noting that they have no
20 concerns with the CEC being issued, and stating that they
21 look forward to reviewing the full cultural resources
22 report as a portion of the ASLD right-of-way process.

23 Q. So what are your conclusions with respect to the
24 project's compatibility for cultural resources?

25 A. (MR. HAZLE) Our conclusion is that the

1 interconnection project is compatible with cultural and
2 historic resources. I spent a lot of time talking about
3 the one site -- the one cultural site that's inside of
4 the CEC corridor. I forgot to mention that there are no
5 historic sites or historic era properties inside of the
6 CEC corridor.

7 So we look at archaeological sites, historic
8 sites, and historic structures, which is just that one
9 cultural archaeological site. Overall, the project will
10 avoid direct or indirect impacts to historic properties
11 and the project is consistent with cultural resources.

12 CHMN STAFFORD: And what is that cultural
13 site that is known that's is going to be avoided what
14 actually is it?

15 MR. HAZLE: I think I can say it's an
16 artifact scatter, prehistoric, so you know, related to
17 the, you know, ancestral Native American tribes' use of
18 the area. Certainly the location and details about it
19 are restricted information that, you know, we provide to
20 the SHPO but try and keep a tight lid on.

21 BY MR. ACKEN:

22 Q. And, Mr. Hazle, why is that? Why is that
23 information not provided in a public forum?

24 A. (MR. HAZLE) The goal is to keep the location of
25 cultural resources confidential so that they're not

1 vandalized or taken or messed with. I think it's
2 probably codified in the Arizona State -- drawing a blank
3 on the statute's name. It's the law, though, it's not
4 just a best practice. So that's what we follow.

5 Q. Let the record reflect Mr. Hazle's not a lawyer,
6 but he doesn't need to be. Thank you. Thank you,
7 Mr. Hazle.

8 Mr. Brasier, going back to you, talk about your
9 evaluation of recreational resources.

10 A. (MR. BRASIER) Sure.

11 So as part of the land use inventory, we looked
12 for any designated public recreation resources, and the
13 only facility we identified in the study area is the
14 Arizona National Scenic Trail or Arizona Trail, which we
15 have discussed quite a bit so far.

16 As we previously mentioned, this trail is open
17 to hikers, bikers, and equestrian users. Beyond the
18 trail there are also dispersed recreation opportunities
19 in the study area, such as off-highway vehicle use,
20 hunting, and sightseeing.

21 The interconnection project would remain
22 available to the public for recreation after
23 construction, but some temporary access restrictions to
24 work sites would be necessary during construction for
25 public safety.

1 The interconnection project transmission line
2 would span the Arizona Trail, and impacts to trail users
3 would be minimized by avoiding work sites that overlap
4 with the trail, and by implementing safety measures, such
5 as trail signage and temporary detours around
6 construction sites.

7 And, in addition, the applicant has no plans to
8 develop any recreational opportunities in the area.

9 Q. Thank you, Mr. Brasier.

10 Back to you, Mr. Hazle, for the discussion of
11 noise and communication interference.

12 A. (MR. HAZLE) For noise, audible noise from the
13 project, we think about construction noise and
14 operational noise, and then as a separate topic signal
15 interference, which is also grouped into Exhibit I.

16 The nearest noise sensitive receptors would be
17 recreationists on the Arizona Trail. The nearest
18 residential facility, I guess you would call it, is
19 referred to as the TUBB Ranch Camp, and that is a
20 ranch-hand facility house, I guess you would call it,
21 that's affiliated with the CO Bar Ranch. It's about
22 3.8 miles away from the project.

23 Construction noise would be temporary and occur
24 primarily during daylight hours. Operational noise would
25 be limited to the sort of corona discharge crackling

1 noise. With respect to the corona discharge audible
2 noises during operations, this project would be
3 immediately adjacent to two other 500kV transmission
4 lines, and, you know, because of that fact, adding a
5 third line of, you know, similar magnitude of noise would
6 not result in a significant increase to the audible noise
7 conditions.

8 So notwithstanding the quite far distance to
9 permanent noise receptors, the operational noise to users
10 of the Arizona Trail would be minimal.

11 MEMBER KRYDER: Mr. Chairman?

12 CHMN STAFFORD: Yes, Member Kryder.

13 MEMBER KRYDER: I have one question. I
14 should have raised it earlier, I think, and I don't
15 recall reading it in the materials we received. Are
16 there any battery series involved in this? I know this
17 is not a gen-tie question, but it's just curious to me.

18 MR. NELSON: No, there are no batteries
19 planned.

20 MEMBER KRYDER: Okay. Thank you.

21 MEMBER LITTLE: Mr. Chairman?

22 CHMN STAFFORD: Yes, Member Little.

23 MEMBER LITTLE: Does anybody know whether
24 there have been studies done about the corona discharge
25 crackling sound and the operational noise whether it

1 bothers cows?

2 MR. HAZLE: I'm not aware of any studies
3 about, you know, whether cows are sort of scared or
4 spooked by transmission lines. You know, I guess I would
5 just repeat that, you know, the RWE team is working
6 closely with the Babbitt families to develop a project
7 that's consistent with the ongoing use of the ranch.

8 MEMBER LITTLE: Yeah, I would imagine if
9 they had any anecdotal information they would pass that
10 along. Thanks.

11 CHMN STAFFORD: Do you know, how long has
12 the Babbitt Ranch been there?

13 MR. HAZLE: I only know this because of the
14 other project we're doing, which is called the 1899
15 interconnection project.

16 MR. ACKEN: 1886.

17 MR. HAZLE: Excuse me, we're in the 1899
18 room.

19 1886 is the date of the CO Bar Ranch
20 founding or initial operation.

21 CHMN STAFFORD: Right. And the
22 transmission lines have been there since at least, what,
23 the '60s?

24 MR. HAZLE: '70s, I think I heard my
25 colleague say.

1 MEMBER LITTLE: '60s.

2 CHMN STAFFORD: So I guess we can probably
3 reasonably infer that there's not an adverse impact from
4 those two 500kV lines from the cows that have been
5 ranging there since before the lines were installed, and
6 if anybody is in a position to make a call about whether
7 there's an impact to the cattle, it would be the ranchers
8 at the CO Bar Ranch.

9 And seeing how they're in support of the
10 project, it seems unlikely that those lines would have
11 any effect on the cattle whatsoever. So I'm just going
12 from the -- the general to the specific.

13 MEMBER KRYDER: Mr. Chairman?

14 CHMN STAFFORD: Yes, Mr. Kryder.

15 MEMBER KRYDER: Wikipedia knows it all, and
16 it says "Do power lines affect cows?" Not cattle, cows.
17 "Researchers who reported last year that most cows and
18 deer tend to orient themselves in a north/south alignment
19 have now found that power lines can disorient the
20 animals." Ain't that something. Thank you.

21 MR. ACKEN: I'm not going to ask the
22 chairman to take administrative notice of Wikipedia.

23 CHMN STAFFORD: I don't intend to. Thank
24 you.

25 BY MR. ACKEN:

1 Q. I will -- this is a really interesting
2 conversation, and I think the Committee's on point with
3 it, but I do think it's worth just confirming for the
4 record, have the landowners expressed any concerns with
5 respect to the proposed facilities associated with this
6 project, how that might impact their cattle grazing
7 operations?

8 A. (MR. HAZLE) No, they have not.

9 Q. Okay. Thank you.

10 I think that brings us to the conclusion of the
11 environmental testimony. And so, Mr. Hazle, I would like
12 you to kind of sum it up for the Committee and provide
13 your overall conclusions with respect to the project's
14 environmental compatibility.

15 A. (MR. HAZLE) When looking at the total
16 environment of the area, the interconnection project
17 would have minimal effects to existing and planned land
18 uses, recreation, visual, cultural, and biological
19 resources. The project is consistent with the local
20 zoning designations and land use planning documents,
21 including the Coconino County Comprehensive Plan.

22 In my professional opinion, and based on the
23 analysis contained in the CEC application, the
24 interconnection project is environmentally compatible
25 with the factors set forth in Arizona Revised Statutes

1 Section 40-360.06, and is consistent with previous
2 projects approved by this Committee.

3 MEMBER LITTLE: Mr. Chairman?

4 CHMN STAFFORD: Yes, Member Little.

5 MEMBER LITTLE: I did have one question. I
6 noticed that one of the things that the Grand Canyon
7 National Park mentioned in their public -- or in their
8 comment had to do with lighting. And since it's out in
9 the middle of nowhere, I'm -- there hasn't been any
10 mention during this hearing about lighting, and what it
11 says here on page J-4 is, "The applicant is coordinating
12 to provide Grand Canyon National Park with further
13 information, completed visual analyses, and planned
14 visual mitigation for the wind project."

15 And I guess I would just -- my question is
16 whether or not -- I believe I heard you mention that the
17 setting up a meeting with them has not yet been possible,
18 you're still working on that; is that correct?

19 MR. HAZLE: That's correct, yeah. The
20 transmission structures are below the FAA height limit
21 for requiring, you know, a blinking light on top of the
22 transmission structures, that's for the gen-tie. For the
23 wind turbines themselves, RWE plans to use a system
24 called the Aircraft Detection Lighting System. It's a
25 newer technology that basically uses radar to detect when

1 aircraft are in the vicinity of the interconnection
2 project, and it would only turn on the turbine blinking
3 lights when that ADLS system identifies an aircraft in
4 the immediate vicinity. So that really tries to minimize
5 the nighttime lighting impacts of the wind turbines.

6 MEMBER LITTLE: Oh, that's great. Thank
7 you.

8 MR. ACKEN: At this point we just have a
9 few cleanup items, I believe, and so I want to make
10 sure --

11 CHMN STAFFORD: I know one of those is the
12 tour.

13 MR. ACKEN: Sure.

14 CHMN STAFFORD: You want to go to that and
15 let's put that to bed?

16 MR. ACKEN: You bet. So can we show RWE-10
17 on the screen? Is that possible?

18 Q. And then I would ask Mr. Hazle to provide an
19 overview of the in-person route tour should the Committee
20 elect to do it.

21 A. (MR. HAZLE) The in-person route tour would be
22 pretty straightforward and circumspect for this project.
23 Basically, we would just drive out to East Tubb Ranch
24 Road on U.S. 89, and that's where the route tour would
25 stop and turn around.

1 East Tubb Ranch Road is public access, at least
2 for a portion heading out toward the wind project, but
3 that road gets really rugged and has some pretty steep
4 parts on it and would not be conducive to a route tour
5 for the Committee.

6 CHMN STAFFORD: Let alone the access road,
7 huh?

8 MR. HAZLE: Correct.

9 CHMN STAFFORD: Well, members --

10 MEMBER LITTLE: Chairman?

11 CHMN STAFFORD: -- I'd like to hear from my
12 fellow members if they think a tour would be beneficial.
13 I'm inclined to think no, but I'd like to hear from the
14 members.

15 MEMBER LITTLE: Mr. Chairman, I move that
16 we do not go on a tour -- a project tour.

17 MEMBER KRYDER: Mr. Chairman, I'd second
18 that.

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

20 (A chorus of ayes.)

21 CHMN STAFFORD: Opposed?

22 (No response.)

23 CHMN STAFFORD: Hearing none, there will
24 not be a tour.

25 Thank you. Please proceed, Mr. Acken.

1 MEMBER LITTLE: Although we could go a
2 little further and go to the Flintstone place out there.

3 MR. ACKEN: Mr. Hazle should have added
4 that to the tour itinerary, a stop there for drinks.
5 Thank you.

6 CHMN STAFFORD: Maybe you would have gotten
7 some votes for a tour if you'd put that in there. It's
8 too late now, but --

9 MR. HAZLE: Noted.

10 CHMN STAFFORD: Please continue, Mr. Acken.

11 MR. ACKEN: Okay. Thank you, Mr. Chairman.

12 Q. So on my notes we have three items that we're
13 going to see if we can get answers to tonight. One is a
14 little more additional information on the EMP
15 consideration. A second question was the sag on the
16 existing 500kV lines. And then third was the origin of
17 Forged Ethic, which I want to hear. So I think we want
18 to share that before we conclude our direct case.

19 I don't have anything else to present today. I
20 would -- I can -- I would like to move some -- offer some
21 exhibits at this time, if that makes sense, because I'm
22 not going to offer all of them at this time, and see if
23 that makes sense to you, Mr. Chairman.

24 CHMN STAFFORD: Yes, certainly. Go ahead.
25 Move your exhibits and I'll rule on them.

1 MR. ACKEN: So I would move exhibits RWE-1,
2 which is the application itself, RWE-2, which is the
3 witness presentation slides that this panel presented. I
4 would not move RWE-3, which was only -- that was for
5 another witness in the event that there was a desire to
6 call him. RW -- I would move RWE-5 and 6, which are the
7 witness summaries and proposed CECs.

8 We didn't really discuss the RWE response
9 to ACC Staff data request, so I wouldn't move 7. I would
10 move 8 through 11. And 11 is, again, the Utilities
11 Division correspondence. So I would move all, I
12 guess -- a better way to say it I would move all but
13 RWE-3 and RWE-7. I would offer those.

14 CHMN STAFFORD: Okay. So you are offering
15 4, then, okay?

16 MR. ACKEN: Yes, I'm sorry if I missed
17 that. Absolutely, 4 is the public outreach summary.

18 CHMN STAFFORD: So Exhibits RWE-1, 2, 4, 5,
19 6, 8, 9, 10, and 11 are admitted.

20 (Exhibits RWE-1, RWE-2, RWE-4 through
21 RWE-6 and RWE-8 through RWE-11 were admitted
22 into evidence.)

23 MR. ACKEN: And I guess the only other
24 thing is RWE-3 is associated with the KR Saline witness.
25 It is not my intention to call him as part of our direct

1 case, but we did have him available. You know, I'm
2 hopeful the Committee is satisfied with the information
3 provided today, but if not, please let me know and we can
4 make him available to testify tomorrow.

5 CHMN STAFFORD: All right. And then,
6 Ms. Benally, you'll have your witness available tomorrow?

7 MS. BENALLY: Mr. Chairman, our witness is
8 available this afternoon if the Committee does have any
9 questions that they'd like to pose to him.

10 CHMN STAFFORD: All right. Members, I
11 think I would like to hear from the RK [sic] Saline
12 witness, and then after that perhaps we'll -- I would
13 have some questions for APS's witness.

14 Thoughts, Members?

15 MEMBER LITTLE: Agreed.

16 CHMN STAFFORD: All right. It looks like
17 that will be the plan, Mr. Acken. We'd like to hear from
18 your RK Saline -- is it KR or RK?

19 MR. ACKEN: KR.

20 CHMN STAFFORD: KR Saline witness tomorrow
21 and then after the conclusion of their testimony, I think
22 we might have some follow-up for your witness,
23 Ms. Benally, but -- and you said you had no intent to put
24 on a direct case, correct?

25 MS. BENALLY: That's correct, Mr. Chairman.

1 CHMN STAFFORD: So I think we'll look to --
2 and this concludes this panel's testimony?

3 MR. ACKEN: Other than the cleanup. I'll
4 probably start with this panel tomorrow morning to answer
5 those cleanup questions that we have before we go on to
6 the next panel.

7 CHMN STAFFORD: Okay.

8 MR. ACKEN: Is there a strong preference of
9 the Committee as to whether Mr. Foster appears virtually
10 or in person? We can accommodate either, but I don't
11 know if there's a strong preference one way or the
12 either.

13 MEMBER KRYDER: I prefer in person.

14 CHMN STAFFORD: Member Kryder prefers in
15 person, but is he -- is he a local witness or is he going
16 to have to fly in from, you know, New York tonight?

17 MR. ACKEN: Oh, he's in Phoenix. He just
18 has to drive up the hill.

19 CHMN STAFFORD: All right. Well, then I
20 don't feel bad about having him attend in person if he's
21 only coming from Phoenix. All right. Thank you.

22 MR. ACKEN: Okay. Thank you.

23 CHMN STAFFORD: Now, is that everything for
24 this afternoon until we come back for the public comment
25 session at 5:30? You have nothing further at this point?

1 MR. ACKEN: I don't. Thank you.

2 CHMN STAFFORD: Members, do you have any
3 additional questions for this panel at this time?

4 (No response.)

5 CHMN STAFFORD: All right. Well, with that
6 I think we will go into recess until 5:30, at which time
7 we'll come back for public comment.

8 We stand in recess.

9 (Recessed from 4:20 p.m. until 5:31 p.m.)

10 CHMN STAFFORD: Let's go back on the
11 record. It is 5:30. This is the time set for public
12 comment for line siting case 225.

13 Are there any members of the public online
14 who wish to speak?

15 AUDIOVISUAL TECHNICIAN: Mr. Chairman, we
16 do not have any members of the public online.

17 CHMN STAFFORD: And there are no members of
18 the public here in person to speak either. So with that,
19 we will go off the record. And if someone shows up, we
20 will come back on the record and hear their comments.
21 Otherwise, we will remain here and available to take
22 comments until 6:00.

23 With that, we'll go off the record.

24 (Recessed from 5:31 p.m. until 6:00 p.m.)

25 CHMN STAFFORD: Let's go back on the

1 record. No members of the public have appeared in person
2 to make comment and none have called in on the Zoom or
3 the phone. So with that, we will take a recess and come
4 back tomorrow morning at 9:00 to conclude the evidentiary
5 hearing.

6 With that we are in recess, thanks.

7 (The hearing recessed at 6:03 p.m.)

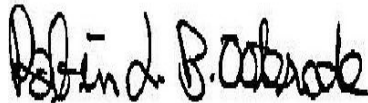
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1 STATE OF ARIZONA)
2 COUNTY OF MARICOPA)

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13 obligations set forth in ACJA 7-206(F)(3) and ACJA 7-206
14 (J)(1)(g)(1) and (2). Dated at Phoenix, Arizona, this
15 10th day of September, 2023.

16 

17 _____
18 ROBIN L. B. OSTERODE, RPR
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20 AZ CR No. 50695

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