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BEFORE THE ARIZONA POWER PLANT
AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION) DOCKET NO.
OF TUCSON ELECTRIC POWER COMPANY,) L-00000C-20-0007-00186
IN CONFORMANCE WITH THE)
REQUIREMENTS of A.R.S. § 40-360,) LS CASE NO. 186
ET SEQ., FOR A CERTIFICATE OF)
ENVIRONMENTAL COMPATIBILITY)
AUTHORIZING THE IRVINGTON TO)
EAST LOOP 138 KILOVOLT (kV))
TRANSMISSION LINE PROJECT, WHICH)
INCLUDES THE CONSTRUCTION OF NEW)
138 kV TRANSMISSION LINES)
ORIGINATING AT THE IRVINGTON)
SUBSTATION (SECTION 03, TOWNSHIP)
15 SOUTH, RANGE 14 EAST), WITH)
AN INTERCONNECTION AT THE PORT)
SUBSTATION (SECTION 18, TOWNSHIP)
15 SOUTH, RANGE 15 EAST) AND THE)
PATRIOT SUBSTATION (SECTION 31,)
TOWNSHIP 14 SOUTH, RANGE 15)
EAST), AND TERMINATING AT THE)
EAST LOOP SUBSTATION (SECTION 08,)
TOWNSHIP 14 SOUTH, RANGE 15)
EAST), EACH LOCATED WITHIN PIMA)
COUNTY, ARIZONA.)
_____)

At: Tucson, Arizona
Date: February 25, 2020
Filed: March 2, 2020

REPORTER'S TRANSCRIPT OF PROCEEDINGS
VOLUME II
(Pages 142 through 281)

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1 BE IT REMEMBERED that the above-entitled and
2 numbered matter came on regularly to be heard before the
3 Arizona Power Plant and Transmission Line Siting
4 Committee at the DoubleTree Inn Hotel 455 South Alvernon
5 Way, Tucson, Arizona, commencing at 9:13 a.m. on the 25th
6 day of February, 2020.

7

8 BEFORE: THOMAS K. CHENAL, Chairman

9 LAURIE WOODALL, Arizona Corporation Commission
10 LEONARD DRAGO, Department of Environmental Quality
11 JOHN RIGGINS, Arizona Department of Water Resources
12 MARY HAMWAY, Cities and Towns
13 JAMES PALMER, Agriculture
14 PATRICIA NOLAND, Public Member
15 JACK HAENICHEN, Public Member

16

17 APPEARANCES:

18 For the Applicant:

19 SNELL & WILMER, L.L.P.
20 Mr. J. Matthew Derstine
21 400 East Van Buren Street,
22 Suite 1900
23 Phoenix, Arizona 85004

24 and

25 TUCSON ELECTRIC POWER COMPANY
Ms. Megan J. DeCorse
88 East Broadway Boulevard
MS HQE910
Tucson, Arizona 85702

26

27

28

1 CHMN. CHENAL: Good morning, everyone. This is
2 the time set for the resumption of the hearing.

3 And this morning, we're going to start the
4 tour. So we'll depart in just a few moments. I just
5 want to remind the Committee and anyone who's going to be
6 accompanying us on the tour that we can entertain a few
7 questions at the various stops, but I would ask you to
8 reserve your questions until when we get back. And we'll
9 start up in the afternoon, and we'll have plenty of
10 opportunity to ask questions about the tour that don't
11 involve any long explanations. It's very difficult for
12 the court reporter to take all that down out in the
13 field.

14 But we'll go to the stops, we'll listen to a
15 little commentary at each key observation point, and
16 we'll take a few questions. But if you have extended
17 questions, just try to hold them until we get back.

18 Any questions from the Committee?

19 MEMBER WOODALL: Mr. Chairman, so I take it
20 there will not be any discussions regarding this case
21 while we're on the bus outside the presence or potential
22 presence of the public?

23 CHMN. CHENAL: Yes.

24 MEMBER WOODALL: Thank you.

25 CHMN. CHENAL: Anything from the applicant we

1 should discuss before we leave?

2 MR. DERSTINE: I think the only -- well, I'll
3 defer -- the room will be locked up if you want to leave
4 things here. Chris is going to be here, but we'll also
5 make sure that the room is secure.

6 I think there are boxes of things and snacks to
7 bring as well as water, and I think there's also an
8 itinerary of the tour there on the table.

9 MEMBER WOODALL: So we don't need to bring
10 this?

11 MR. DERSTINE: I don't think so. You can, but
12 I think there is a separate tour itinerary map.

13 That's all I've got. Is there anything else?

14 (No response.)

15 CHMN. CHENAL: All right. Let's go.

16 (The hearing recessed for the route tour at
17 9:15 a.m.)

18

19 (TIME NOTED: 9:23 a.m.)

20 (Present for the route tour: Chairman Chenal,
21 Member Hamway, Member Haenichen, Member Palmer, Member
22 Riggins, Member Woodall, Member Drago, Ed Beck, Eric
23 Raatz, Renee Darling, Patrick Dubberly, Claudia Paulsen,
24 Matt Derstine, Megan DeCorse, Melissa Morales, and
25 Adriana Marinez.)

1 STOP 1

2 (TIME NOTED: 9:37 a.m.)

3 CHMN. CHENAL: So this is Stop 1.

4 Mr. Raatz.

5 MR. RAATZ: Here we are looking at the East
6 Loop Substation and the existing transmission line
7 corridor that will be -- our preferred route will occupy.

8 CHMN. CHENAL: Can you please give us some
9 directions here.

10 MR. RAATZ: Yes. To reiterate, we're looking
11 at the East Loop Substation to the west of us. Just to
12 the south of us is the existing transmission line
13 corridor of which I spoke. And to the south of us are
14 the existing lattice structures that we will be
15 occupying.

16 As you can see, on the north side of that
17 lattice structure is an open position. The lines
18 occupying those lattice structures will be reconfigured
19 to accommodate the new Patriot to East Loop circuit.

20 CHMN. CHENAL: All right. Let's proceed to
21 Stop 2.

22 (TIME NOTED: 9:40 a.m.)

23 (All tour participants proceeded to Stop 2.)

24

25

1 STOP 2

2 (TIME NOTED 10:03 a.m.)

3 CHMN. CHENAL: So now we're at Stop 2.

4 Mr. Raatz.

5 MR. RAATZ: Here we are at Stop 2. This is one
6 of the opportunities we'll be able to view alignment C1.

7 As you look towards the Pantano Wash, that is
8 the Pantano walkway. The alignment C1 would extend north
9 on the east side of the Pantano Wash and eventually cross
10 to the west side of Pantano and extend to the existing
11 transmission corridor.

12 If you'll note, to the east of us is the
13 existing Pantano to East Loop transmission line. This is
14 the Alternative B that will be reconstructed as
15 double-circuit with the Patriot to East Loop circuit
16 occupying one position and the Pantano to East Loop
17 circuit occupying the other.

18 MR. BECK: Just to state, if you look west down
19 22nd, this is where the C1 would be coming in and
20 crossing over the Pantano Wash.

21 MS. DECORSE: What is that pole right there?

22 MR. RAATZ: I believe it's a 46 pole.

23 If you'll note on the existing structures, the
24 arms extend approximately 10 feet from the structure.

25 CHMN. CHENAL: Any questions?

1 (No response.)

2 CHMN. CHENAL: Let's go to the next one.

3 (TIME NOTED: 10:07 a.m.)

4 (All tour participants proceeded to Stop 3.)

5

6 MR. BECK: Just to point out, this is the
7 alignment of the existing line. And just to the south is
8 the trailer park that we're rerouting around, Tucson
9 Meadows.

10 MR. DERSTINE: The existing line of what?

11 MR. BECK: Existing B2.

12 CHMN. CHENAL: Is this Stop 3?

13 MR. BECK: No. We can go on to our stop.

14

15 STOP 3

16 (TIME NOTED: 10:12 a.m.)

17 CHMN. CHENAL: We're on the Stop No. 3. We're
18 going to stay on the bus.

19 Mr. Raatz.

20 MR. RAATZ: So what you're looking at here, to
21 the north, kind of northeast of us, is the existing line
22 going through the Tucson Meadows neighborhood. And as
23 you look kind of to the south here, that line continues
24 on. This is the area that we'll be removing, this
25 portion, and jogging along here.

1 So last night, there was an individual with the
2 public comment that had concern for the subdivision to
3 our west. The pole, we measured an aerial image this
4 morning, and the arm would extend approximately 5 foot
5 from the subdivision property line. And it's
6 approximately 25 foot to the closest house.

7 So the poles, the realignment would be built on
8 the west side of the road. And this is Alternative B2 as
9 well, the preferred alternative. But it would travel
10 north and jog back to the east, would connect into the
11 existing transmission corridor that continues north along
12 Pantano through the industrial parkway where we just
13 drove through, the South Research Loop. We kind of
14 weaved in and out.

15 MR. DERSTINE: What are we seeing here, this
16 line?

17 MR. RAATZ: This is an existing 46 line. This
18 will remain in service should Alternative B2 be approved.

19 From this point on, we're going to depart from
20 the existing transmission alignment and come to the west
21 side of South Pantano Road and continue on around the
22 bend. And when we hit up with South Research Loop, I
23 believe it is, we'll continue east and meet up with the
24 existing transmission corridor where we stopped, where we
25 had that brief stop that wasn't shown on the tour.

1 CHMN. CHENAL: Are we on Pantano Road now?

2 MR. RAATZ: South Pantano. So Pantano jogs at
3 22nd.

4 CHMN. CHENAL: I was a little confused on the
5 route we took. Had we stayed south on Pantano and gone
6 south, we would have seen the jog?

7 MR. RAATZ: We would not have seen that jog.
8 Where we are right now, we are right here. And so
9 there's two Pantanos.

10 MR. BECK: We'll have to show you on a map.

11 CHMN. CHENAL: Anything more here?

12 MR. RAATZ: No.

13 CHMN. CHENAL: Any questions?

14 MEMBER DRAGO: I was going to ask about the
15 jog, the triangle, on Pantano. Where are we relative to
16 that, what part of the triangle?

17 MR. RAATZ: We are at the bottom of the
18 triangle where the red circle is. Actually, this would
19 be like this. So this is north. So, for the record, we
20 are at the south portion of the triangle shown on
21 Exhibit 6 of the tour map.

22 (TIME NOTED: 10:15 a.m.)

23 (All tour participants proceeded to Stop 4.)

24

25

1 STOP 4

2 (TIME NOTED: 10:21 a.m.)

3 CHMN. CHENAL: We're at Stop No. 4. And the
4 actual Stop 4 would be at Escalante and Pantano, which is
5 the intersection if we look out the bus to the left at
6 the intersection there. But, Mr. Raatz, why don't you
7 tell us what we're looking at here.

8 MR. RAATZ: For the record, we're going to be
9 looking at Alternative B2, the preferred route. And
10 behind you is north direction. In front of you is south
11 direction. We are at the intersection of Carson and
12 Escalante. We are at the northwest corner of Carson and
13 Escalante.

14 CHMN. CHENAL: But the preferred route would
15 come from the north, proceed south on Pantano, and then
16 make a right turn at Escalante heading west?

17 MR. RAATZ: Correct.

18 Yes, the preferred route would utilize the
19 existing transmission corridor from Los Reales to
20 Pantano. And at Escalante, we would head west, and it
21 will be a single-circuit from that point on. It would be
22 double-circuit along Pantano, picking up the existing
23 circuit there. The portion along Escalante will be
24 constructed along the south side of the road. And, once
25 again, that will be single-circuit. So that will be

1 directly south of us here.

2 And just one thing to note as we continue on,
3 we do have an existing 46 structure and distribution line
4 on the north side of the road.

5 CHMN. CHENAL: Any questions?

6 (No response.)

7 CHMN. CHENAL: Thank you.

8 (TIME NOTED: 10:25 a.m.)

9 (All tour participants proceeded to Stop 5.)

10

11 STOP 5

12 (TIME NOTED: 10:30 a.m.)

13 CHMN. CHENAL: So we're at Stop No. 5.

14 Mr. Raatz or Mr. Beck.

15 MR. RAATZ: We are at Stop No. 5.

16 And this gives us an opportunity to see the
17 location for the Patriot Substation, which would be
18 located on the southwest corner directly kitty-corner
19 from you and it also gives us the opportunity to see
20 where Alternative A1 would continue north and C1 would
21 continue north. Then the common alternative,
22 Alternative 1, would continue south along Kolb Road.

23 Alternative A and Alternative C1 would be
24 located on the west side of Kolb Road. And at this
25 location, also, one thing to note, our preferred route,

1 Alternative B2, would turn and head east along the south
2 side of Escalante Road.

3 So all routes in this area would be
4 single-circuit 138kV, for note.

5 Are there any questions?

6 MR. BECK: Maybe just to add a little bit,
7 Patriot Substation, again, on that corner diagonally
8 across from us, those planes will be removed. There will
9 be a little more testimony on that this afternoon on --
10 we're giving you some information about the relocation of
11 those planes. But that is a portion of the Boneyard or
12 the AMARG organization. So these are all planes that
13 they have in storage.

14 CHMN. CHENAL: Approximately, again, how many
15 acres will that substation occupy?

16 MR. BECK: The site that we're obtaining is
17 approximately 16 acres, of which we'll use roughly 6
18 acres as our substation site initially.

19 MR. RAATZ: So one last thing, if I may. This
20 will be -- we have one more stop before this, but from
21 this point on, we'll be traveling north along Kolb Road.
22 But please be sure to look at the existing transmission
23 line with respect to the existing properties. We'll
24 cross over to the east side of Kolb Road here. And we
25 will be making a U-turn and coming back down and heading

1 south along Kolb Road.

2 And we will be passing though -- not through
3 Davis-Monthan Air Force Base, but Kolb Road bisects
4 Davis-Monthan east and west. And we'll be traveling
5 underneath the bridges that we saw on the Google Flyover
6 that we saw yesterday.

7 Just some things to keep aware of as we won't
8 have the opportunity to speak to again until our next
9 stop.

10 CHMN. CHENAL: So from here, we're going to go
11 north on Kolb Road. And then we're going to make a
12 U-turn and come south back to this point and continue
13 south on Kolb Road to Stop No. 6; correct.

14 MR. RAATZ: Yes. We'll be taking at right on
15 Littleton.

16 MS. DARLING: I'd like to add that when we get
17 to 22nd Street is where we pick up the second circuit
18 from the 138. And that point, it's double-circuit to
19 East Loop. And please note the proximity of the homes on
20 Kolb Road to that proposed double-circuit line in
21 comparison to what you just saw on Pantano Road, please.

22 CHMN. CHENAL: So let me catch up with you.
23 Alternative A and C1 would head north from this point on
24 Kolb Road on the east side of Kolb Road or the west side
25 of Kolb Road?

1 MS. DARLING: They start on the west. At the
2 Kolb Substation, they will cross -- around at that
3 location, they cross back to the east.

4 CHMN. CHENAL: Where's the location of Kolb
5 Substation in relation to where we're standing? North of
6 us?

7 MR. RAATZ: It is north of us, yes.

8 CHMN. CHENAL: So from where we're standing --
9 wait a second. Alternative A and C1 would proceed on the
10 west side of Kolb Road, heading north to the Kolb
11 Substation, would cross over to the east side of Kolb
12 Road and would then continue north from there?

13 MR. RAATZ: That is correct. At the South Kolb
14 Substation, we pick up the 46. We'll have three spans of
15 46, double-circuit 46 and 138 on that. And at Golf Links
16 is where the 46 would drop off and head west.

17 CHMN. CHENAL: But, to your point, it's the
18 proximity of where the lines would be on the east side of
19 Kolb Road to the properties?

20 MS. DARLING: Correct. North of 22nd where we
21 get the two double-circuit 138 lines for Alternative A.
22 C1 will turn east on 22nd and come up the wash.

23 MR. RAATZ: That's our existing corridor that
24 we'll be traveling.

25 CHMN. CHENAL: Questions?

1 (No response.)

2 CHMN. CHENAL: Okay. Let's go back on the bus,
3 and we'll do the continuation of the tour.

4 (TIME NOTED: 10:37 a.m.)

5 (All tour participants proceeded to Stop 6.)

6

7 STOP 6

8 (TIME NOTED: 11:14 a.m.)

9 CHMN. CHENAL: This is Stop 6.

10 Mr. Raatz.

11 MR. RAATZ: Here we are on the -- as you're
12 facing north, you can see the existing distribution line
13 as it runs in an easterly-westerly direction. This
14 existing distribution will be underground in this area,
15 and the Alternative 1 will occupy the space in this
16 location.

17 If you look west, you can see where the
18 existing distribution travels in a northwesterly
19 direction following the Union Pacific Railroad. The
20 alignment 1 will follow the same alignment.

21 Now, to the east of us, if you look down at the
22 empty lot about half a mile down the road where the road
23 starts to jog in a southeast, that parcel is where the
24 future Port Substation will be located.

25 MR. BECK: If you want to, we can go back to

1 the Port Substation location.

2 CHMN. CHENAL: Yes, let's do that

3 (TIME NOTED: 11:17 a.m.)

4 (All tour participants proceeded to Stop 6A.)

5

6 STOP 6A

7 (TIME NOTED: 11:20 a.m.)

8 CHMN. CHENAL: This is actually -- we'll call
9 it Stop 6A, back to the area where the Port Substation is
10 going to be. So we're all staying on the bus.

11 Mr. Raatz, if you want to explain what we're
12 looking at here.

13 MR. RAATZ: Okay. Just to the south of us,
14 we're looking at where the Port Substation is going to be
15 located. And the transmission line Alternative 1 would
16 be just to the north of us, and it would be running along
17 the -- where the existing distribution is, just on the
18 other side of the road.

19 And just one thing to mention, this
20 distribution line, this is the area that we had public
21 comment last night where there was erosion in the area of
22 this existing distribution line. It's a little further
23 east from here.

24 One thing to note, too, I didn't mention it,
25 but that's the new Amazon distribution facility. And

1 then that borders just, I believe, the Port of Tucson.

2 MR. BECK: So that Amazon site is the one
3 that's causing drainage issues and causing erosion. So
4 that's part of that development that's causing it.

5 CHMN. CHENAL: We'll look at that on the
6 flyover when we get back.

7 MEMBER HAENICHEN: I just have a question about
8 the Amazon facility. How much energy does that use?

9 MR. RAATZ: I will get back to you on that.

10 CHMN. CHENAL: Anything else?

11 (No response.)

12 CHMN. CHENAL: Okay. That's all.

13 (TIME NOTED: 11:23 a.m.)

14 (All tour participants returned to the hearing
15 location, arriving at 11:50 a.m.)

16

17 (The hearing resumed at 1:14 p.m.)

18 CHMN. CHENAL: Good afternoon, everybody. This
19 is the time set for resumption of the hearing.

20 We had a nice tour this morning. So I'd like
21 to first ask the Committee if there are any questions
22 that they have regarding what we saw on the tour.

23 Yes, Member Riggins.

24 MEMBER RIGGINS: So, I guess, Mr. Raatz or
25 Ms. Darling -- and I don't know if we specifically saw it

1 on the tour, but it was just a question I had.

2 The scenic corridor, did we see that or where
3 that's located when we were out?

4 MR. RAATZ: Yes, we did pass through it. It
5 was at the end of -- the southern end of Kolb Road before
6 we turned right along Littletown and before we crossed
7 over Valencia in the area where the Amazon distribution
8 warehouse was.

9 MEMBER RIGGINS: And so the follow-on to that
10 is what entity designates that a scenic corridor?

11 MR. RAATZ: Member Riggins, in this corridor,
12 it is Pima County designates the scenic corridor.

13 MEMBER RIGGINS: And what constitutes -- what
14 actually defines that northern boundary along Kolb Road?

15 MR. RAATZ: We transition from Pima County into
16 the city of Tucson.

17 MEMBER RIGGINS: So the northern boundary is
18 actually where Pima County transitions into the city of
19 Tucson?

20 MR. RAATZ: That is correct.

21 MR. DERSTINE: Mr. Chairman, can I have
22 Ms. Darling maybe describe the major scenic corridor.

23
24
25

1 EDMOND BECK, ERIC RAATZ, and RENEE DARLING,
2 called as witnesses on behalf of Applicant, having been
3 previously duly sworn, en masse, by the Chairman, were
4 examined and testified as follows:

5

6 DIRECT EXAMINATION (Cont.)

7 BY MR. DERSTINE:

8 Q. We have on the right screen here showing where
9 that is. It's actually on Valencia Road, right?
10 Ms. Darling, can you kind of give us a little more
11 information on the scenic corridor designation, where it
12 is and what that does?

13 A. (BY MS. DARLING) Yes. It's actually called a
14 Pima County Major Scenic Route.

15 Pima County has both major arterial routes, and
16 then some of them may add a layer called "scenic" on top
17 of.

18 So it extends from Littleton to Valencia. And
19 it actually extends along Valencia a little ways where
20 you see this loop down. This is actually within the
21 scenic and then going this way towards the Pima Air &
22 Space Museum partially. And then there's a break, and
23 then it picks up again.

24 And it's designated from the centerline of the
25 road, half the right-of-way width beyond the road

1 right-of-way. So in this case, it's 300 feet plus 150
2 feet either side of the right-of-way.

3 So that's why it gets so wide here, to allow
4 flexibility. You'll see that we preliminarily put it
5 here on the very edge, and then we have 150 feet on this
6 side. And then, to get us to this side of the road, we
7 had added, you know, to get outside of the scenic
8 corridor.

9 It's just from here, if you zoom just a little
10 bit out, you can see where it ends. Yeah, it's just this
11 little stretch here. And then we're back out of the
12 scenic, we go into the City of Tucson property, and then
13 we get back to the regular 300-foot corridor.

14 Q. But the scenic corridor is actually on Valencia
15 Road, which is the looping section; correct?

16 A. (BY MS. DARLING) Yeah, all of this is the
17 scenic corridor --

18 Q. Follows --

19 A. (BY MS. DARLING) Right.

20 Q. And it's just where Alternative 1 crosses and
21 overlaps on Valencia that we're being impacted by that;
22 is that right?

23 A. (BY MS. DARLING) Say that again.

24 Q. So we're expanding our requested corridor to
25 900 feet in this area. But we're not -- this is on Kolb

1 Road; right?

2 A. (BY MS. DARLING) This is Kolb Road.

3 Q. And so it's not that our route is on the scenic
4 corridor of Valencia, but we're crossing it, and that
5 requires us to blow out and expand the corridor that
6 we're asking. Do I have that right?

7 A. (BY MS. DARLING) Yes.

8 CHMN. CHENAL: Member Noland.

9 MEMBER NOLAND: The scenic corridor has very
10 stringent restrictions.

11 MS. DARLING: Yes.

12 MEMBER NOLAND: Sight, visibility, height
13 restrictions, structure restrictions; is that correct?

14 MS. DARLING: That's correct. That's why
15 it's -- and they extend beyond the road right-of-way,
16 half the width of the right-of-way. So if the
17 right-of-way is 300 feet, you have to go even 150 feet
18 beyond that right-of-way --

19 MEMBER NOLAND: I understand.

20 MS. DARLING: -- or you need to obtain a
21 variance, which is -- they don't like --

22 MEMBER NOLAND: You're not going to get that.
23 I built a house on a scenic route, so I'm very familiar
24 with Pima County's requirements.

25 But what I don't understand -- and forgive me

1 if I'm catching up here -- is why you have extended that
2 corridor the whole way when that's not all scenic route.

3 MS. DARLING: So if you -- I'm sorry. If you
4 take the half right-of-way width on this and this, it
5 just leaves a little tiny section kind of in between. So
6 it's just to get straight across without going out to
7 here, back into here, up, back out to here, out like
8 that. So it was just to keep this a straight line.

9 So it could -- you could come in, although it
10 seems to defeat the scenic corridor kind of designation.
11 But you could do that, yes.

12 MEMBER NOLAND: Well, I'm more concerned about
13 to the -- is that the south of Valencia?

14 MS. DARLING: This is the Port of Tucson here
15 or here.

16 MEMBER NOLAND: Can somebody give me a pointer?
17 Thanks.

18 What I'm concerned about is this area. Why are
19 you extending that far on this side?

20 MS. DARLING: So these are industrial
21 businesses. The reason was this property developer --
22 it's a single landowner. And it was just to allow
23 flexibility if this landowner would deny an easement,
24 because we can't be in the road right-of-way using a
25 franchise agreement.

1 MEMBER NOLAND: And how many landowners are
2 there here? Four?

3 MS. DARLING: I believe there's four this way
4 and then there's these two side by side here, so five,
5 and this one probably is six, actually.

6 MEMBER NOLAND: But as far as the scenic route
7 goes, that would just be this area in here that you're
8 impacted. Would that be correct?

9 MS. DARLING: Correct. So we could jump out to
10 here, come up, jump back in, go up and jump over. So it
11 was really just a lot of flexibility in design and with
12 so many landowners there.

13 MEMBER NOLAND: Thank you.

14 MS. DARLING: Yes.

15 CHMN. CHENAL: Any other questions from the
16 Committee?

17 (No response.)

18 CHMN. CHENAL: Okay. Please proceed.

19 I think, Mr. Derstine, what we wanted to do --
20 and I think we had talked about this before we started
21 the afternoon session -- for the benefit of Member
22 Noland, to have kind of a narrative flyover presentation
23 again. And then after that, I would personally like to
24 see it just start to finish with no narration, just give
25 us an opportunity to see it front to back.

1 MR. DERSTINE: I think Mr. Raatz is prepared to
2 do that.

3 CHMN. CHENAL: Super.

4 MR. RAATZ: Are we all set?

5 MR. DERSTINE: I think so.

6 I just want to note before we start with the
7 flyover, we've been having Mr. Dubberly doing a million
8 things at once, creating maps on the fly and new slides
9 and adjusting corridor widths on the flyover, etc. So we
10 appreciate all of his efforts and his technical wizardry
11 in all this.

12 Are we ready?

13 MR. RAATZ: Yes.

14 We'll be starting the Google Earth Flyover of
15 the Irvington Substation to East Loop Substation 138kV
16 Transmission Line Project.

17 (Google Earth Flyover video shown.)

18 MR. RAATZ: Here you see the study area. And
19 with respect to the City of Tucson, the study area is
20 outlined in the purple line. The City of Tucson is
21 shaded in gray.

22 Continuing on, we zoom in to the study area
23 with respect to the City of Tucson. Now you can see the
24 study area. We've got points of interconnection at
25 Irvington, East Loop, the proposed Patriot Substation,

1 and the proposed Port Substation. And the purple line,
2 once again, is the study area identified for this
3 project.

4 And we're bringing forth to the Committee three
5 alternatives.

6 Alternative 1, which is between Irvington and
7 Patriot, is common to all three alternatives.

8 And we have Alternative A, which goes from the
9 Patriot Substation north along Kolb Road to the East Loop
10 Substation.

11 And Alternative B2 goes from the Patriot
12 Substation, heads east on Escalante Road, and turns north
13 and continues on in an existing transmission corridor
14 along Pantano Road and terminates at the East Loop
15 Substation.

16 And Alternative C1, similar to Alternative A,
17 leaves the Patriot Substation, proceeds north. The
18 difference here is that at 22nd Street, it turns east
19 where it crosses over the Pantano Wash and then is
20 adjacent to the Pantano Wash, where it crosses back over
21 to the west side and terminates in the East Loop
22 Substation.

23 Here, we'll be reviewing Alternative 1, which
24 again is common to all alternatives. And then again goes
25 from the Irvington Substation through the Davis-Monthan

1 property, bisects Davis-Monthan east and west through the
2 Patriot Substation.

3 We've got some navigation tips as we follow
4 along. Note that Alternative 1 is colored red, just as
5 Alternative 1 on every map we've presented. The
6 centerline of the alignment will also be colored red to
7 match the maps.

8 We have a compass, very hard to see, up in the
9 upper right-hand corner. Currently north is pointing
10 down toward the lower left-hand side of the screen.

11 Along the way, we'll have key observation
12 points as found in Exhibit G-5. They will be popping in.
13 And also we'll identify some of the tour stops that we
14 saw along our tour.

15 And lastly, we've got the 300-foot corridor
16 width we're requesting shown in a black shadow. So just
17 to the south here, we have our RICE units, which we drove
18 by on the tour.

19 And just to the north of that is the existing
20 138kV substation. And just to the north of that is the
21 46kV substation.

22 So we'll be beginning our line at this
23 location. If you want to pause, P-Dub.

24 So right here, this is no longer here, just to
25 note, and we've gotten rid of the ponds as well.

1 This structure right here is where we pick up
2 the 46kV. So from this location heading southeast will
3 be double-circuit 138 on the left side of the screen and
4 then 46 on the right side of the screen. So we're right
5 about here.

6 So as we proceed southeasterly, we're coming
7 upon the planned Raptor Ridge solar facility, which we
8 saw on our tour. This is a 10-megawatt solar facility at
9 full buildout. And just to the left of that is our
10 existing E.ON solar facility.

11 And here, we've got Key Observation Point 1,
12 the current condition. You can see the stacks from the
13 RICE units in the back there.

14 And Key Observation Point 1, simulated
15 condition. You can see how the 46 will take off and go
16 into the Raptor Ridge solar facility.

17 Again, moving southeasterly, we'll have a
18 single-circuit 138kV and a 300-foot corridor request
19 that's centered on the centerline of the alignment. And
20 just to the top left-hand side of the screen is the Pima
21 Air & Space Museum, one of the constraints,
22 considerations in choosing Alternative 1. And we're
23 bound to the south by the Union Pacific Railroad.

24 So we turn and continue east. And up here was
25 the last stop that we just had on our tour. We saw the

1 distribution in the area. And up to the right begins the
2 Port of Tucson property, which we spoke to earlier in the
3 testimony.

4 And the yellow polyline outline is the location
5 of the Port Substation that was in proximity to Stop 6A,
6 I believe it was. So, again, we are single-circuit
7 138kV. And this is the area where we'll be requesting
8 the 900-foot corridor that we just spoke to --
9 Ms. Darling spoke to earlier.

10 So as you see here, we jog over to the left,
11 we're inside the road right-of-way at this point, and the
12 major scenic route is no longer an issue.

13 And we jog over again. At this location, we're
14 on Davis-Monthan Air Force Base property, just to the
15 edge of the property. And this is single-circuit 138kV.

16 Coming up here, this was one of the design
17 considerations. This is a bridge that connects
18 Davis-Monthan Air Force Base east and west, and this
19 bridge is used to transport aircraft from the east and
20 west side of Davis-Monthan Air Force Base. So we had to
21 accommodate the largest plane on base.

22 Down in this area, the corridor is centered on
23 the centerline of the alignment, 300-foot corridor. It's
24 single-circuit 138.

25 Just to the top of the screen here, you can see

1 the residential area. We cross over to avoid the
2 residential area. We have Key Observation Point No. 3,
3 the current condition.

4 P-Dub.

5 And we have Key Observation Point No. 3, the
6 simulated conditions, where we cross from the east and
7 west side of Kolb Road.

8 And here, we are approaching the Patriot
9 Substation located at the northeast corner of -- or,
10 excuse me, southwest corner of Escalante and Kolb. And
11 this concludes Alternative 1, which, again, is common to
12 all alternatives.

13 Now we'll be discussing Alternative A. And
14 it's a straight shot from Patriot to East Loop Substation
15 north along Kolb Road.

16 So we can note this was Tour Stop No. 5. So we
17 start out on the west side of Kolb Road for probably
18 1,800 feet. And when we cross over to the east side of
19 Kolb Road in this location, it's single-circuit 138.

20 We have Key Observation Point No. 4, the
21 current condition, and Key Observation Point 4, the
22 simulated condition. You can see it removed, the 46, in
23 that area. This is single-circuit 138.

24 So something to note here --

25 CHMN. CHENAL: Let me just interrupt,

1 Mr. Raatz. Stop for just a second. I just want to make
2 sure that Member Noland sees the shaded area, which is
3 the corridor that is being requested, and the impacts, if
4 you will, of the existing properties there.

5 Member Noland.

6 MEMBER NOLAND: And that brings up a question I
7 had.

8 Are you using or planning to use the current
9 right-of-way that you have, or is there a current
10 right-of-way in there? I thought you had some if you
11 already had poles in there.

12 MR. RAATZ: In this area, there are no existing
13 poles, but we would be utilizing the existing franchise
14 agreement that we have to try and keep the poles within
15 the road right-of-way.

16 And the corridor shown currently is 300 feet,
17 and it's centered on the centerline of the road
18 right-of-way.

19 MEMBER NOLAND: And then why would you need
20 that if you have a franchise agreement?

21 MR. RAATZ: It allows the flexibility to locate
22 the poles or aerial -- obtain aerial easements as
23 required, should the -- our intent would be to keep the
24 poles within the right-of-way, but there may be areas
25 where the conductor or the insulator or arm would hang

1 over outside the edge of right-of-way, and we would have
2 to obtain aerial easements.

3 MR. DERSTINE: Mr. Chairman, Member Noland, to
4 your point, when we viewed this, the flyover simulation,
5 on our own, as we were developing it, it does nicely
6 graphically show what a 300-foot corridor looks like. It
7 also shows that that 300-foot corridor extends into and
8 over the homes or residences that are very close to the
9 edge of the road along Kolb in this area.

10 We're certainly sensitive to the idea of
11 encroaching or moving structures onto private land. And
12 that certainly is not our intent. It's not the intent of
13 the company.

14 So the concern in this area -- and you can see
15 from the simulation -- is that those homes are built up
16 very close to the edge of the right-of-way. And so our
17 intent is to put our structures in the right-of-way, but
18 there are areas in which we may need to -- an arm may
19 have to extend over into a private property line here on
20 Kolb just because of the way the homes are built up very
21 close.

22 So one of the things we talked about at the
23 break yesterday was, is there a way to narrow -- what's
24 the smallest corridor we could use and work with and
25 still build this alternative.

1 And so I think what we can show you is we could
2 live and build with a 200-foot corridor, which simply
3 utilizes the road right-of-way plus approximately -- I
4 think that's right -- 25 feet outside of the road
5 right-of-way.

6 CHMN. CHENAL: On each side?

7 MR. DERSTINE: On each side.

8 So that's a 200-foot corridor imposed over the
9 original 300-foot corridor. And, again, the intent is
10 always to build in the road right-of-way. We're not
11 looking to put a pole in someone's pool or backyard.

12 But there again, because of the narrowness and
13 tight location along this route with this alternative, if
14 it were selected, we may need to have an aerial easement.
15 And what we want to do is at least have a corridor that
16 allows us the flexibility to do that. And, candidly,
17 there may be a spot in here where we've got to put a base
18 of a structure up against or maybe even a little bit onto
19 someone's property.

20 And so that's the difficulty with this
21 alternative, and that's what we came up with in terms of
22 the tightest and narrowest corridor that we could use to
23 build this route.

24 MEMBER NOLAND: Mr. Chairman, whoever can
25 answer this, why do you need that easement extending over

1 to the west side to that extent, not ending at the road
2 right-of-way?

3 MR. DERSTINE: I think what we're trying to
4 show is a 200-foot corridor centered on the road
5 right-of-way. So it's 25 feet outside of the road
6 right-of-way both on the east and the west.

7 Do I have that right?

8 MS. DARLING: Yes. I think the answer to your
9 question is, if we have to cross the road with some
10 section of the line -- and it's not our intent to do so,
11 but all that's been done thus far is the design Blue
12 Stake. And once you get into actual construction Blue
13 Stake, it could show there's some utility or something
14 there that we didn't know about that we might have to
15 move across the street and then come back again. But
16 that's not the plan.

17 MEMBER NOLAND: Okay. My last question for now
18 is: This is the first time I've heard of aerial
19 right-of-way. Can you explain that to me?

20 MS. DARLING: I can. So, for this project,
21 because -- and more so, once we get north of 22nd Street,
22 we're going from a single-circuit -- existing
23 single-circuit 138kV to a double-circuit 138kV line. The
24 current arms are on the street side of the pole. To
25 rebuild, we would be putting arms on the home side of the

1 pole. And because this right-of-way is 150 feet but it's
2 fully built out, so it's six lanes plus the median plus
3 sidewalks and all of that, the arms, as Mr. Derstine has
4 said, may extend beyond the property line. So --

5 MEMBER NOLAND: I understand that.

6 MS. DARLING: An aerial easement is permission
7 from the landowner for the arm to extend onto their
8 property where the pole itself would still be in the road
9 right-of-way.

10 MEMBER NOLAND: Thank you. You learn something
11 new every day. I didn't know people owned the air and
12 could give you the right to use it. Thank you.

13 MS. DARLING: I wanted to add, too, another
14 consideration that we get into when we talk about the
15 stakeholder concerns is the City of Tucson is maintaining
16 their ADA or Americans with Disabilities Act sidewalks,
17 the 4-foot-wide sidewalks. And because this right-of-way
18 is so tight and the circumference of our poles can be 3
19 feet, in order to stay in the road right-of-way, we may
20 have to obtain easement from property owners for
21 sidewalks.

22 So that was allowing -- that was one of the
23 other reasons why we were -- for this alternative -- and
24 then, again, it's not our preferred. But if, for this
25 alternative, we might need that extra room to obtain

1 those kinds of easements as well.

2 MEMBER NOLAND: Thank you.

3 CHMN. CHENAL: Member Hamway.

4 MEMBER HAMWAY: So I think that up to 200 feet,
5 the air above a home is owned by the homeowner. Above
6 200 feet, it brings in the FAA.

7 MS. DARLING: We're below. We're at 75 to 110
8 feet.

9 MEMBER HAMWAY: Okay.

10 CHMN. CHENAL: And, again, just so we're clear,
11 this is Alternative A?

12 MR. DERSTINE: Yes.

13 CHMN. CHENAL: Which is not the preferred
14 route?

15 MR. DERSTINE: Correct.

16 CHMN. CHENAL: But you're showing it,
17 obviously, on this portion of the flyover. Okay.

18 MR. RAATZ: So here is the existing South Kolb
19 Substation. At this location we'll be picking up the 46.
20 So for three spans or so, we'll be double-circuit 46 on
21 the left-hand side and 138 on the right-hand side.

22 So at this point, we are single-circuit 138.

23 And at this location, we'll be picking up an
24 existing 138kV circuit, and we'll be in an existing 138kV
25 circuit corridor. So from this point to north, to the

1 East Loops Substation, it will be double-circuit 138kV.

2 Here we have Key Observation Point No. 5, the
3 current condition. You can see the existing 138kV
4 structures in the background.

5 And then the simulated condition of Key
6 Observation Point No. 5. And you can see it's framed as
7 double-circuit.

8 So continuing north, the blue polyline at the
9 upper right-hand portion of the screen represents the
10 East Loop Substation parcel where both circuits will be
11 turning in and terminating into the East Loop Substation.
12 And just to note, this is Tour Stop 1 that we stopped at
13 first thing this morning. And that concludes
14 Alternative A.

15 CHMN. CHENAL: And the discussion we had about
16 a 200-foot corridor, where would that be located? For
17 the entire corridor of the length of Alternative A north
18 of the Patriot Substation?

19 MS. DARLING: Yes, Chairman.

20 CHMN. CHENAL: Okay. So now we're going to
21 look at C1, which, again, is not the preferred option?

22 MR. RAATZ: That's correct.

23 Alternative C1 is very similar to Alternative A
24 as well. It leaves the Patriot Substation and heads
25 north along Kolb Road. So as you can see here. And then

1 the difference being is that at 22nd Street, it will head
2 east and continue along the Pantano Wash.

3 So we'll be leaving the Patriot Substation,
4 very similar to the tour we just saw, Alternative A. The
5 existing corridor that we have shown is centered along
6 the centerline of the road right-of-way. And this is
7 single circuit 138kV.

8 CHMN. CHENAL: Let me ask you right here, is
9 the discussion about the 200-foot corridor applicable to
10 Alternative C1 for the entire length of the C1 or just
11 along Kolb Road?

12 MR. DERSTINE: All along Kolb Road. And then
13 where Alternative C1 then angles onto 22nd Street --

14 MS. DARLING: We can reduce the entire C1 to
15 200 feet along the wash and 22nd.

16 CHMN. CHENAL: Okay. Thank you.

17 MR. RAATZ: So continuing north, we have our
18 existing 46kV substation. We'll be double-circuiting 46
19 and 138 in this location. And the 46 drops off here, and
20 the single-circuit 138 continues north.

21 And here is where we differ from Alternative A.
22 We cross 22nd Street to the north side and head east on
23 22nd. And this is all single-circuit, whereas,
24 Alternative A, continued north, was double.

25 And I believe this was Tour Stop 2 along our

1 way where we got out, and we were able to see -- look at
2 the wash and see the existing 46 in this area.

3 So here we have Key Observation Point No. 10,
4 the current condition. You can see the existing 46kV.

5 And then Key Observation Point 10, the
6 simulated condition, going up the wash.

7 So in this area, the corridor is centered along
8 the centerline of the alignment.

9 Here, we cross over Pantano Wash to the west
10 side.

11 And here, we have Key Observation Point No. 11,
12 the current condition.

13 And here, we have Key Observation Point No. 11,
14 the simulated condition. You can see in the background
15 the proposed transmission line. This key observation
16 point is taken at Broadway and the Pantano Wash.

17 And we continue north. You can see in the
18 upper left-hand side of the screen, that's the -- the
19 blue polyline, again, is the East Loop parcel. And at
20 this location, we turn into the existing transmission
21 corridor. And right here were the lattice structures
22 that we saw on the tour. And then if you recall, there
23 was an open position on the northern side of those
24 lattice structures. We'll be reconfiguring those. We
25 won't have to do any construction in this area. And,

1 once again, this was Tour Stop No. 1.

2 And that concludes Alternative C1.

3 Moving on to Alternative B2. This is our
4 preferred alternative.

5 It leaves the Patriot Substation and heads east
6 along Escalante. And at Pantano, continues north along
7 the existing transmission corridor.

8 So here we have, again, the planned Patriot
9 Substation. And the corridor within this area is defined
10 by the centerline of the road right-of-way. And this is
11 all single-circuit 138kV for Alternative B2, the
12 preferred.

13 CHMN. CHENAL: Could I ask that you put
14 Alternative B2 on the right screen.

15 MR. RAATZ: All right. So we're right about
16 here for Alternative B2. If you recall, this was Tour
17 Stop No. 4. We stopped so we could see the existing line
18 coming along Pantano Road.

19 And here, we'll be picking up the existing line
20 and building in the existing corridor. And this will
21 become double-circuit 138kV. So we are right about here.

22 CHMN. CHENAL: Let me ask you to stop right
23 there, please.

24 So we're looking at a 300-foot corridor at this
25 point, as depicted on the flyover. And I wanted to ask

1 the applicant, will this also be reduced to a 200-foot
2 corridor for the entirety of the B2 preferred route?

3 MR. DERSTINE: I'll let Ms. Darling answer.

4 MS. DARLING: Yes. We can reduce this one as
5 well to 200.

6 CHMN. CHENAL: For the entirety of the B2
7 portion?

8 MS. DARLING: Yes.

9 CHMN. CHENAL: Thank you very much.

10 MR. DERSTINE: Is that including Escalante?

11 MS. DARLING: Including Escalante.

12 MR. RAATZ: So this is double-circuit.

13 CHMN. CHENAL: Member Noland.

14 MEMBER NOLAND: Well, I've got a question. Why
15 do you need a 200-foot corridor if you're going to put it
16 in the existing right-of-way and easement?

17 MS. DARLING: For the same reasons as I had
18 stated for Alternative A. But it's much, much less
19 likely that we'll need it on Pantano because the road is
20 actually a four-lane and is not -- the actual
21 right-of-way is not as built out as much, so we're not
22 pushed as far to the edge of the right-of-way where the
23 arms would extend onto private property.

24 That being said, there's still design
25 consideration. The poles are going to be relocated.

1 We're not building in the exact same location as the
2 existing poles because the pole line is being taken out.

3 So once you get into the construction Blue
4 Stake, it just allows a little bit of flexibility. It's
5 a definite on Kolb Road but unlikely on Pantano Road that
6 we would need aerial easements or have a need for
7 additional easement for sidewalks. But just to allow the
8 flexibility for those one or two areas where we just
9 don't know at this time because there's not a final
10 design done.

11 MEMBER NOLAND: What size is your easement now?

12 MS. DARLING: We are in road right-of-way.

13 MEMBER NOLAND: You're in the complete road
14 right-of-way?

15 MS. DARLING: Yes.

16 MEMBER NOLAND: How much play is there in that
17 right-of-way?

18 MS. DARLING: It varies a lot along the route.
19 You'll see in the Google Earth, there are some places
20 where the homes are very close to the right-of-way and we
21 can't get closer to the edge. But there's a lot of open
22 areas, too, where there's a lot of play. There's room
23 for the City to still add sidewalks and things like that.
24 There's a lot of areas that don't have sidewalks yet, but
25 they want us to maintain the ability for them to add

1 them. So we have to take all that into account once we
2 get to the final design for the project.

3 MEMBER NOLAND: So do you have an estimate of
4 how much right-of-way is vacant and still usable from the
5 actual pavement?

6 MS. DARLING: I can get it for you by tomorrow.

7 MEMBER NOLAND: Yeah, if you can, I'd like to
8 know what we're dealing with here.

9 MS. DARLING: Sure.

10 MEMBER NOLAND: What's the right-of-way, also,
11 that's currently paved? Is it a 30? Is it a 60? What
12 did you say? It was a four-lane?

13 MS. DARLING: It's a four-lane with a center
14 median for the most part, yes. Yeah, I can find out.

15 MEMBER NOLAND: Thank you.

16 MR. BECK: Mr. Chairman, Member Noland, if I
17 could add, we understand the concern about the corridor
18 width and the impact to the property owners adjacent to
19 the project.

20 I think partially where we're coming from is
21 our right-of-way department, in a previous project, we
22 thought we had a corridor sufficient to do what we needed
23 to do. And we actually had one property owner that
24 wouldn't work with us. We went through condemnation, had
25 some real problems with that. And in the end, we got

1 agreement from an adjacent property owner further away
2 from the corridor -- from what was identified as the
3 corridor -- to move the line onto their property. And
4 not only did he say that you can move over onto my
5 property in this piece, I also own property further
6 north, and you can move the line up there onto my
7 property and just deal with one landowner.

8 It worked out very well for us, but it was not
9 within the defined corridor of our CEC. So we did have
10 to go back to the Commission and go through the
11 modification process. And while that can be done, and in
12 most cases wouldn't be a major issue, if we can get a
13 corridor defined that's wide enough to give us the
14 flexibility to work with the landowners, that's what
15 we're looking for.

16 And I know there's a trade-off between the
17 impact to property owners versus our project. But,
18 again, our intent is to stay where the line is to the
19 extent we can. But if unforeseen circumstances come up,
20 that little bit wider corridor gives us that flexibility.
21 And it is not our intent to go out and encroach upon
22 people's rights to the -- as little as we can is the
23 intent.

24 MEMBER NOLAND: Thank you, Mr. Beck. I
25 understand that. Because this is a pretty populated area

1 all the way around except for the Pantano Wash, but it's
2 populated on both sides of that.

3 Do you pay for aerial right-of-way easement?

4 MR. BECK: If we obtain an aerial easement,
5 yes, we pay for it.

6 MEMBER NOLAND: Wow. Okay. Thank you.

7 MR. RAATZ: Do you want me to continue?

8 We're continuing north. We're going to be
9 double-circuit 138kV in this area.

10 And up towards the top of the screen is Tour
11 Stop No. 3. This was the area where we stayed on the
12 bus. And when we looked back, we kind of drove through
13 this area. And rather than -- the existing transmission
14 corridor goes straight through, but it does not go along
15 a road in this area. It goes through an existing mobile
16 home park, Tucson Meadows.

17 MS. DARLING: Tucson Meadows.

18 MR. RAATZ: And so we've taken that line and
19 jogged it around the existing neighborhood on our
20 preferred route, moving it out of the existing Tucson
21 Meadows neighborhood.

22 So here, we have Key Observation Point No. 7.
23 As you can see, the existing transmission structure in
24 the background.

25 And the simulated condition removes that

1 structure out of that Tucson Meadows neighborhood and
2 jogs around in this area right around here.

3 This was the industrial park area that we
4 weaved in and out of on the tour.

5 Across the existing Pantano Wash and the
6 existing corridor. And this was Tour Stop No. 2 again.

7 And we have the corridor centered on the
8 centerline of the road right-of-way. Continuing along
9 the existing alignment is double-circuit 138kV.

10 MR. DERSTINE: We're just taking a moment to
11 show the 200-foot corridor, what that would look like in
12 the same space.

13 MR. RAATZ: Continue.

14 We're right about here, Broadway Boulevard.

15 We have Key Observation Point No. 8, the
16 current condition, the existing transmission structure,
17 the foreground and background.

18 And the simulated condition. This will become
19 double-circuit.

20 We continue west in the existing corridor. In
21 this location, the corridor is centered on the centerline
22 of the alignment.

23 Once again, the blue polyline is the East Loop
24 Substation parcel. And, once again, we'll be utilizing
25 the open position on the existing lattice structures, so

1 we won't have to build new structures within the wash.

2 This concludes Alternative B2 tour, the
3 preferred route.

4 CHMN. CHENAL: All right. Now I'd like just to
5 play it from front to back. But before we do that, I'd
6 like to hear again the reason the preferred route was
7 selected over C1.

8 We know that there were some homeowners that
9 spoke last night that were in the area near the jog on
10 the preferred route who spoke of -- you know, they had
11 concerns. And I can't remember exactly where, but there
12 were also some other people that spoke.

13 But in looking at the aerial, the flyover,
14 again this time, it did seem as though there was much
15 less residential density using the Pantano Wash C1 route.

16 And so before we play that again, if you could
17 have someone explain, if the applicant could have someone
18 explain -- I know they had a slide on it and there was
19 testimony about it, but just to maybe get some of the key
20 points why the preferred B2 route was selected, which
21 does have the residential and it does impact with the
22 corridor west of it, why that was preferred over C1 that
23 goes through Pantano Wash for part of it.

24 MR. DERSTINE: And I think Ms. Darling can
25 speak to that issue.

1 I'll just note that if you're looking at
2 comparing the preferred -- and I think you correctly
3 pointed out, Mr. Chairman, where those comments came from
4 last night. They were largely on B2, Pantano Road. I
5 don't think we heard anyone from residents along Kolb.

6 But you still have -- we did? One resident on
7 Kolb.

8 You still have -- by using the Pantano Wash
9 route, C1, you're still going to have the line in close
10 either on Kolb or on Pantano. And so you do get over to
11 the river on 22nd and use Pantano Wash, but you've got
12 very much the same issues on those first legs of all
13 three of those routes, where we're having to build the
14 line on existing roads, Kolb and Pantano, where there are
15 existing lines, but we don't have a lot of room.

16 I think Ms. Darling will indicate why we landed
17 on B2 as the preferred, but I think it lands more
18 squarely on the point that she made in response to Member
19 Noland, is that there is more room on Pantano than there
20 is on Kolb.

21 Ms. Darling.

22 MS. DARLING: So the answer to your question
23 kind of builds throughout the course of testimony as we
24 go through the alternatives analysis and the stakeholder
25 concerns and the resource studies and all of those kinds

1 of things.

2 But I will go ahead and summarize now, but it
3 may not have a lot of meat.

4 CHMN. CHENAL: You know, we don't have to,
5 because you're going to get into that, and we don't need
6 to jump the gun. I'm happy to wait. And it is rather
7 obvious that the problems of the Kolb Road present itself
8 in C1.

9 It did occur to me just now, just when I'm
10 looking at it, whether consideration was given to coming
11 up Pantano but then branching off through Pantano Wash,
12 which does avoid some of the residential north of that
13 point. I'm just curious if any consideration was given
14 to that.

15 MS. DARLING: No. I don't think that was one
16 of the preliminary alternatives.

17 CHMN. CHENAL: It's not before us. Just
18 curious.

19 MS. DARLING: I was wondering if we could point
20 out on simulation 8 to Member Noland, since she wasn't on
21 the tour, the configuration of the existing transmission
22 line pole in comparison to what the new pole would look
23 like because that might help explain why I believe that
24 we can stay within the franchise agreement on Pantano as
25 opposed to Kolb.

1 CHMN. CHENAL: Sure. Is that part of the
2 flyover?

3 MS. DARLING: Yeah. It was simulation 8. We
4 just looked at it at the end of the flyover.

5 CHMN. CHENAL: Okay.

6 MS. DARLING: We can back up to it.

7 MR. DERSTINE: We can pause it.

8 CHMN. CHENAL: Let's pause it. I'd like to see
9 it from front to back, just see it one more time quickly.
10 We can pause it then at that point for Key Observation
11 Point 8.

12 MS. DARLING: Okay. So go ahead.

13 MR. DERSTINE: And I think that -- Mr. Dubberly
14 notes to me there are pauses built in to the
15 presentation, so it will run. He's not pausing it, but
16 they're built in to part of the video.

17 CHMN. CHENAL: Thanks.

18 (Google Earth Flyover video shown.)

19 CHMN. CHENAL: Member Noland.

20 MEMBER NOLAND: Can we stop there for a minute.
21 And this kind of, I think, pertains to your question.
22 Could you show us on this map where Pantano and 22nd and
23 Pantano Wash all intersect? Is that up at point No. 2?
24 That is --

25 MR. RAATZ: Yes. If you look at the map on the

1 right-hand side, that is the location that we're seeing
2 of the screen on the left-hand side.

3 So Pantano continues on this -- just north here
4 and the Pantano Wash, then.

5 MEMBER NOLAND: So I'm just piggybacking on the
6 Chairman's question of why you didn't consider going over
7 from the Pantano alignment into the Pantano Wash?

8 MR. RAATZ: I do know one of the considerations
9 is the existing Pantano line is further removed from the
10 Pantano Wash alignment. It would require spanning
11 Pantano and heading in the direction of the Pantano Wash.

12 MEMBER NOLAND: Okay.

13 MR. BECK: Mr. Chairman, Member Noland, maybe
14 just to add to that, for the portion -- if we were
15 already coming up Pantano Road with our alignment, where
16 we've got the bulk of the rebuild is being done along
17 Pantano. And when we get to where we could peel off and
18 go up the Pantano Wash, I think our thought process --
19 it's not probably qualitatively put in the report -- was
20 that it didn't make sense to start encumbering something
21 that doesn't already have a line when we have an existing
22 line and we're only traveling for a relatively short
23 distance to finish up to get to East Loop. And I think
24 that was our thought process in creating our alternative
25 routes. We probably did not put that specifically in

1 writing in the report.

2 CHMN. CHENAL: Let's keep flying.

3 (Continuation of Google Earth Flyover video.)

4 MR. RAATZ: This is where Ms. Darling wanted me
5 to pause.

6 So as you can see, the existing transmission
7 structure, you can see that it has arms overhanging and
8 then there's insulators hanging down from those arms.
9 These arms are approximately 10 feet in length.

10 And when we go to the simulated condition,
11 you'll see that we're using -- well, it's hard to
12 see here -- post insulators, which are approximately 5
13 feet in length. It's also shown on your placemat in
14 front of you. But the post insulators will reduce the
15 amount of aerial overhang versus the arm by approximately
16 5 feet. So the likelihood that we would require an
17 aerial easement would be reduced.

18 (Continuation of Google Earth flyover video.)

19 CHMN. CHENAL: All right. Thank you.

20 Mr. Raatz, question: Look at the screen on the
21 right. Are there existing lines along the last northern
22 segment of B2?

23 MR. RAATZ: Yes, there are.

24 CHMN. CHENAL: And to Mr. Beck's point, there
25 are no lines in the Pantano Wash?

1 MR. RAATZ: That is correct.

2 CHMN. CHENAL: Does the Committee have any
3 questions about the flyover?

4 (No response.)

5 CHMN. CHENAL: I think it was very helpful to
6 have us see that again, and I think it puts the
7 perspective on what we saw this morning. So I think it
8 was very helpful to see that.

9 I guess -- what would be the next part of the
10 presentation here of the case?

11 MR. DERSTINE: The next chapter is entitled
12 Project Development & Considerations.

13 I'll use -- primarily, we'll start with
14 Ms. Darling and then with a short couple questions for
15 her to talk about her design philosophy and how that was
16 applied in this case.

17 And then Mr. Beck is going to discuss some of
18 the initial development hurdles in getting across the
19 Davis-Monthan Air Force Base.

20 And then Mr. Raatz will touch on some of the
21 additional design considerations that went into the
22 project.

23 And then we move to alternative route analysis.

24 So I think that first chapter I could do in 15,
25 20 minutes. But we're at 2:30. So however you want to

1 handle the break.

2 It looks like we have some sort of extravaganza
3 sitting out in these chafing dishes, so...

4 CHMN. CHENAL: Let's take about a five-minute
5 break, and we'll take another longer break later between
6 then and 5.

7 Thanks.

8 (A recess was taken from 2:29 p.m. to
9 2:43 p.m.)

10 CHMN. CHENAL: Someone said, So much for the
11 five-minute break, but let the record reflect that there
12 was a smorgasbord of pretzels and sliders and other
13 goodies back there, and it was just too irresistible.

14 So now I guess we're going to go back to the
15 panel then, Mr. Derstine, Ms. DeCorse.

16 MR. DERSTINE: Yes. I'll turn my mic on.
17 Chris is scowling at me over there.

18 This next section is headed Project Development
19 & Considerations.

20 Q. BY MR. DERSTINE: Ms. Darling, I'd like to
21 start with you here because I think it ties in to some of
22 the things we were talking about on the flyover and why
23 we picked the routes that we picked.

24 Can you talk through TEP's general philosophy,
25 its approach to projects like this, and then how that

1 philosophy was applied here for this case.

2 A. (BY MS. DARLING) Yes.

3 So TEP's design philosophy is to minimize
4 impacts to the extent possible on both built and natural
5 environment using existing corridors such as road
6 right-of-way as well as existing infrastructures such as
7 our existing facilities; in this case, the 138kV and 46kV
8 transmission lines.

9 We determine potential impacts through an
10 engineering and constructability assessment as well as
11 the different studies that we do during the alternatives
12 analysis and public outreach and stakeholder
13 coordination.

14 Q. And I gather, you know, one of the themes that
15 we've seen in terms of looking at the routes, at least
16 the three alternatives from Patriot to East Loop, are the
17 effort to utilize existing transmission corridors
18 wherever possible and to collocate existing either 46 or
19 138kV lines onto the new project so that we are
20 minimizing the amount of impact from this new project?

21 A. (BY MS. DARLING) Correct.

22 Q. But there are times where we're not able to do
23 that. And, I guess, in those instances, the efforts to
24 minimize impacts, those are the things that you're going
25 to talk about more in terms of the biological and the

1 other evaluations, the other -- how we employ the effort
2 to reduce the overall impact of any project, whether we
3 can collocate it with an existing line or not?

4 A. (BY MS. DARLING) Right. the alternatives
5 analysis is kind of what guides us to the final -- you
6 know, the alternatives that we present in the
7 application. But it's also the public and the
8 stakeholder participation.

9 So in this case, we have two alternatives that
10 are more leaning towards the built environment and one
11 that's leaning more towards the natural environment, so
12 it gives us options.

13 Q. And you're going to cover more in detail those
14 considerations and that process, the input you got from
15 the public and stakeholders through your outreach, as
16 well as the alternative analysis in terms of looking at
17 early links and all that sort of thing with Ms. DeCorse
18 here in a bit this afternoon; right?

19 A. (BY MS. DARLING) Yes.

20 Q. Mr. Beck, let me turn to you.

21 One of the early development hurdles was to get
22 through the Davis-Monthan Air Force Base on
23 Alternative 1. That line, getting from Irvington to push
24 up north to the Patriot Substation, requires that we go
25 right through the Davis-Monthan base.

1 Mr. Raatz has talked about the DOD directive
2 for energy resiliency, but it wasn't necessarily the case
3 that the base was entirely on board with supporting this
4 project. And you had to do some early work to get
5 through that; is that right?

6 A. (BY MR. BECK) Yes, that is correct.

7 In fact, again, just to reiterate, the
8 Davis-Monthan -- the Department of Defense directive and
9 then Davis-Monthan's response to that with their flight
10 plan was something that would allow us or support us in
11 getting across the base with a line that we had needs for
12 for our TEP customers over and above just the base.

13 So this was an opportunity, and that's why we
14 started having discussions with the Air Force. And we
15 thought we had agreement with the Air Force until we
16 found out that there's kind of two components to the Air
17 Force on the base.

18 We had agreement from one part, the
19 Davis-Monthan Air Force Command. That's probably not
20 exactly the right title. But we didn't have agreement
21 from the AMARG group, or the Aerospace Maintenance and
22 Regeneration Group, which I mentioned yesterday.

23 So in response to the concerns from AMARG, we
24 had another meeting with the base personnel, and we had a
25 PowerPoint slide. So I'm just going to step through that

1 to give you a little bit of background on that.

2 Q. And the slide that's shown on the right screen
3 there, Mr. Beck, that is a new exhibit that we've marked
4 as TEP-16 we handed out. It wasn't included in our
5 original exhibit filing, but it was handed out yesterday,
6 and it is on the iPad as well; is that right?

7 A. (BY MR. BECK) That is correct.

8 Q. And this, what's been marked as TEP-16, explain
9 to us what that is.

10 A. (BY MR. BECK) So, again, this is the
11 presentation package that was given in a meeting with
12 Davis-Monthan personnel at the base as well as the AMARG
13 group within the Air Force structure.

14 And just to put a little bit of context around
15 that, the acronyms at the bottom represent the various
16 parties that were there. So AMARG, again, is the
17 Aerospace Maintenance and Regeneration Group, which is a
18 one-of-a-kind specialty facility within the Air Force.
19 And they're actually the first ever FAA equivalent
20 military repair station, which was interesting to learn.

21 And they have an internal title of America's
22 National Level Air Power Reservoir because of all the
23 planes and equipment that they carry onsite.

24 CHMN. CHENAL: Member Noland.

25 MEMBER NOLAND: Mr. Beck, is that what we refer

1 to as the Boneyard?

2 MR. BECK: Yes, Member Noland. Affectionately,
3 we would refer to it as the Boneyard, but they actually
4 have a true name with their organization.

5 MEMBER NOLAND: But if you're from Tucson for
6 any length of time, we've called it the Boneyard for 40
7 years.

8 MR. BECK: That is correct, and I think I may
9 have used that name yesterday once or twice, yes.

10 The facility encompasses approximately 2,600
11 acres on the base and has a 662-member workforce. And
12 they manage \$33 billion in assets. They reclaim and ship
13 parts worldwide. And according to their claim, they
14 think they may be the largest lumber user in the
15 Southwest, which I found very interesting. And that's
16 strictly from the crating activity that goes on to send
17 large parts around the world.

18 So their mission is very specific and requires
19 24-hour turnaround when they get a parts request. And so
20 that's why any interference of our line to their activity
21 is very near and dear to them.

22 The other entity named up there, the DM CE, is
23 the 355th Civil Engineering Squadron on the base. So
24 their personnel were there. And then we had TEP
25 representation.

1 So just stepping through the slide show --
2 okay. Next slide.

3 So you've seen -- these are the same letters
4 that were in other slides, but we were reviewing with
5 them the resiliency goals of the Air Force in general,
6 how TEP currently serves them, our proposed line.

7 And then we were trying to finalize DM support
8 across the board for our project. And so we're going to
9 get into the specifics of the project and some timing
10 issues.

11 So we reminded them that the Air Force, in
12 general, has their objectives, one of which is the
13 important by fiscal year '25, eliminate 20 percent of the
14 single points of failure.

15 On the right-hand side, you can see a couple of
16 objectives in the DM Development Plan. This is their
17 plan.

18 Today they are served through the 46kV system
19 through a lone transformer, and it acts as a single point
20 of failure for them. And they had a preference to get a
21 second transformer.

22 And then they wanted to establish a second
23 point of entry for electrical power to improve their
24 system reliability. So in their mind at the time, they
25 were thinking another 46kV circuit coming onto the base.

1 So this shows again how the base is served.
2 And there's -- two 46kV lines actually come onto that
3 site, but only one is active at any given time. If one
4 fails, we have to switch over to the other. So there is
5 an outage involved in that process. They're not both
6 live at the same time.

7 It's not how we operate our 46kV system, unlike
8 our 138, which we've talked about, is looped and would be
9 fed from both directions at all times.

10 So one of the things we shared with the base
11 personnel was the performance of the circuit or circuits
12 that serve the base at the 46kV level. And you can see
13 we gave them from 2013 through 2018. And the target of
14 the Air Force is what they call four 9s, .9999 percent
15 reliability.

16 And you can see we were real close to that but
17 didn't quite make it in those middle years. We were at
18 9997, 9998, 9978. And so we just gave them that piece of
19 information.

20 So we talked further with them about our plan
21 for phasing in responses to their needs. And one of them
22 was 138kV line, new substation. It will have dual
23 transformers, resolves the issue they have with one
24 transformer, and also gives them two feeds two different
25 directions. That would be what we call Phase I and hits

1 their fiscal year '25 target right up front. In fact, it
2 goes above and beyond that.

3 And then we talked with them, we have a
4 longer-term interest in working with them, partnering
5 with them on things such as -- well, we call it grid
6 outage response. But it's -- you know, one opportunity
7 would be to put some storage and maybe place it right on
8 our substation site that we're acquiring that would serve
9 both TEP needs but also directly serve some DM needs in
10 the future, and we could partner with them on that.

11 We just went over the alignments in general.

12 One of the things I didn't mention -- could we
13 go back. Nope, go ahead. Sorry. Go forward.

14 No, go to the map. Sorry.

15 So one of the things I didn't mention is that
16 where the 46kV is today, it's mid base. I mentioned that
17 yesterday, the fact that we would get our substation off
18 base and have control of the fencing, the gates, and our
19 access to the site. But it's 2 miles away from the
20 existing 46kV substation.

21 So one of the things that they're contributing
22 towards the project is they are going to rebuild that
23 46kV system on base to get it to the new substation. So
24 they are contributing dollars towards the rebuild of that
25 project that goes towards the overall project activity.

1 CHMN. CHENAL: Mr. Beck, quick question.

2 If we could go back to the map. You said you
3 thought you had an arrangement or a location for the
4 line, but then you didn't. But where was that line going
5 to be? And I assume it's different than what we've been
6 seeing as part of the application.

7 MR. BECK: No. The agreement in general was
8 along Kolb Road. So we had agreement from the base
9 itself that we could build across Kolb Road. I have a
10 couple slides that will talk to some of the issues
11 specific to AMARG and why they were not on board at the
12 time.

13 CHMN. CHENAL: But they eventually got on
14 board?

15 MR. BECK: Yes. After the result of this, they
16 got on board.

17 A little piece of this is that the land that we
18 will use for the substation site is actually
19 AMARG-controlled land as opposed to the general Air
20 Force-controlled land.

21 And so the main part of the base agreed to
22 exchange a piece of land with AMARG to give them that
23 equivalent land area back at another location on the base
24 so that they don't lose capability to store planes.

25 So to give them a representation of the

1 reliability aspect of 138kV, we gave them statistics from
2 one of the lines that's not too far from the base. It's
3 22nd to East Loop line.

4 And you can see for that same time period, we
5 were at 1.0 on the 9s measurability. So we definitely
6 beat their liability needs. Again, that's not a
7 guarantee we'll have that constantly throughout the time,
8 but it's much better than 46 was.

9 So here is what we were showing to the AMARG
10 group specifically, was the portion of the alignment
11 along Kolb Road.

12 And this is the southern end of the base moving
13 towards the northern end of the base. Substation site is
14 that little rectangle there. And we showed the line on
15 the east side of Kolb up to Irvington, crossing over, and
16 then on the west side of Kolb to the project substation
17 site.

18 So they talked about and raised issues of two
19 things: One was this bridge crossing, and the other was
20 proximity of our line to what they call their tow road.
21 And that tow road doesn't show up real well on these
22 particular diagrams; but adjacent to and parallel with
23 Kolb on both sides, there is a tow road that they use to
24 haul their planes in and out of the storage area.

25 They wanted a 250-foot setback from the

1 centerline of their tow path, and then they wanted the
2 90-foot clearance over that bridge crossing. And one of
3 their big concerns was that, should our line fall over --
4 or a pole, at least, get -- fall over, that would it
5 impact either their tow path and, more importantly, the
6 bridge itself. And I mentioned, they have a 24-hour
7 turnaround requirement for a parts request. It's a
8 mandate internal to them.

9 And so they get a call for a part for a plane,
10 and that plane could be way over on the east side of Kolb
11 Road. And to some degree, they'll haul the whole plane
12 across that bridge, take it to their disassembly
13 location, pull out whatever parts are needed, crate them
14 up and ship them, and they have that 24-hour turnaround.

15 So they didn't want us interfering with their
16 ability to carry those planes across the bridge or to tow
17 planes along that tow path.

18 There's the clearance diagram, basically.
19 That's over that bridge crossing.

20 So we showed them how, with 140-foot-tall
21 structures on either side of that crossing and using a
22 509-foot span, which would worked for the crossing, we
23 were providing that 90-foot clearance. We gave them a
24 description of structures, basically, the things you've
25 been hearing about here.

1 We presented a Google Flyover, which -- I'm
2 going to wait one slide to do that, because it will show
3 you basically what we showed them. It's slightly
4 different than our route mapping.

5 We talked about the CEC process and our time
6 frame for filing. This was back in, I believe, June of
7 last year. You see we did anticipate our January filing
8 date, which we pretty much met. And then we were
9 anticipating hearings in February, which worked out. And
10 then we'll see whether it goes to open meeting in more
11 likely April than March. But that was just an overview
12 for Air Force personnel.

13 And that was kind of the extent of that
14 discussion. But, as I said, we did have a Google, which
15 we can get to.

16 CHMN. CHENAL: Member Woodall.

17 MEMBER WOODALL: Mr. Beck, were you involved in
18 these negotiations and discussions?

19 MR. BECK: Yes. In fact, I was at this
20 presentation.

21 MEMBER WOODALL: This is a message to TEP. I
22 recommend that you give Mr. Beck a gold watch when he
23 retires, because what he has accomplished in getting this
24 kind of collaboration and cooperation is, in my view,
25 miraculous. I've never heard of there being such a

1 collaborative, cooperative engagement with these aspects
2 of the federal government.

3 So congratulations to you, Mr. Beck.

4 MR. BECK: Thank you.

5 So, Patrick, if we could bring up the flyover.

6 So we did our -- this Google Flyover was done
7 live in the meeting, where we actually did it and showed
8 them live. So we took that and made it a canned
9 presentation. And we actually used it within --
10 internally for our Fortis parent company as part of a
11 presentation to our management, so this one actually has
12 a soundtrack to it.

13 MR. DERSTINE: You're saying this will bring us
14 out of the pretzel coma?

15 A. (BY MR. BECK) I hope so. And you'll see a
16 little bit of the Boneyard while we're at it.

17 (Google Earth Flyover video shown.)

18 MR. BECK: Patrick, when we get to Kolb, maybe
19 we can pause it.

20 It is amazing the variety of aircraft they have
21 out there and how neatly stored all of their equipment
22 is.

23 CHMN. CHENAL: How come there's music with
24 that, Mr. Beck?

25 MR. BECK: As I said, it was for management, so

1 it got prettied up a little bit more.

2 Maybe just a little further where we can see
3 the tow path.

4 So this is kind of the southern end of the base
5 as we're moving north.

6 Here's actually one of the tow paths here.
7 Right there would be good.

8 So this is the bridge crossing where they bring
9 the planes from one side to the other. As you saw this
10 morning, Kolb Road is depressed. I don't know if you
11 noticed the bridge, but that bridge was interesting in
12 that their fencing is straight out from the bridge deck.
13 It looks like it's laying down. That's the way they did
14 it for security.

15 But this tow path here was critical to them.
16 So when we first met with them or when we met with them
17 this time, we were planning to cross over Kolb from the
18 east side to the west side just north of that bridge
19 crossing there.

20 And they said, No, we want it moved further
21 north.

22 Let's go a little further.

23 (Continuation of Google Earth Flyover video.)

24 MR. BECK: Maybe pause it there for a minute.

25 As you'll notice, there's some actual

1 hard-shell-side buildings here that is one reason to be
2 on the east side versus the west side, just the
3 proximity.

4 (Continuation of Google Earth Flyover video.)

5 MR. BECK: If you could pause there. It's a
6 little bit hard to see, but right there is the crossing.
7 So when we put this actual flyover together, we had moved
8 that crossing north based on their input. We went as
9 close to this residential neighborhood as we could and
10 stayed on that east side and then crossed over. And then
11 we made sure that there would not be any interference
12 with this tow path.

13 As we come up here, you'll see the outline of
14 the substation area and the property that we'll be
15 obtaining. And all of those planes will get relocated to
16 another part of the storage area.

17 (Continuation of Google Earth Flyover video.)

18 MR. BECK: That is not, of course, the
19 substation, but it's just a representation of a
20 construction time lapse.

21 (Continuation of Google Earth Flyover video.)

22 MR. BECK: This is the 46 line that will be --
23 that goes to their existing substation that needs to be
24 part of the project.

25 And just to the upper left corner is the runway

1 or the facilities for the base itself.

2 So that's just an indication of some of the
3 effort we had to go through with the Air Force to get --
4 even within the Air Force, get the left hand and the
5 right hand together in agreement.

6 And it was interesting that the AMARG
7 organization definitely has a different interest and
8 different thoughts than the Air Force proper. But in the
9 end, we were able to come together.

10 And, in fact, right after the presentation to
11 the AMARG group, the commander signed the letter that was
12 transferring land from one to the other with a map that
13 kind of represented the routing.

14 Q. BY MR. DERSTINE: Thank you.

15 Mr. Raatz, let's turn to you for a minute in
16 terms of still covering the design and considerations for
17 the project.

18 Certainly, one of the design considerations was
19 this bridge crossing allowing AMARG to continue to
20 transport its planes and aircraft over to be dismantled.
21 Mr. Beck covered some of that, but I think you have --
22 well, you want to start with a number of -- the Raptor
23 Ridge, and then you're going to talk a little more about
24 the bridge and then some of the other -- the Pima Air &
25 Space Museum and additional design considerations that

1 went into the project. So why don't you walk us through
2 that.

3 A. (BY MR. RAATZ) Sure. Some of the design
4 considerations that were unique to this project, the
5 first was -- that we encountered was the planned Raptor
6 Ridge solar facility. This kind of came after the
7 thought process -- later on in the thought process of the
8 project.

9 It's a planned 10-megawatt solar facility when
10 fully built out. It will be supported on our 46kV
11 system.

12 And so when we were first looking at
13 Alternative 1, as seen along here, the common corridor,
14 this wasn't considered. So we found out about this later
15 on in the project. And so in order to minimize the
16 amount of structures that would be required, we took
17 advantage of collocating the 46 on the same structures
18 with the 138.

19 So another one of the design considerations
20 that Mr. Beck just spoke to was the Davis-Monthan Air
21 Force Base bridge crossing. This connects the east side
22 and west side of Davis-Monthan Air Force Base.

23 And we had to consider the largest plane on
24 Davis-Monthan Air Force Base, and some of the design
25 criteria were provided to our engineers. The plane

1 itself was a C-5. And so the height of the tail -- the
2 highest point of the plane is 65 feet. And the wingspan
3 is 228 feet -- or, excuse me, 222.8 feet. And the span
4 of the crossing -- this is a little different than what
5 Mr. Beck had just presented, is 518 feet, 250 feet either
6 side of the centerline of the bridge crossing. And the
7 height of the structures spanning the crossing are 142
8 feet, allowing for a 90-foot clearance above the tail at
9 the crossing.

10 And another design consideration is the Pima
11 Air & Space Museum. One of the original segments brought
12 forth one along Valencia Road. And in discussions with
13 Pima Air & Space Museum, they requested that we remove
14 this segment from consideration. One of the design
15 constraints in this area is the connection from
16 Davis-Monthan Air Force Base to the Pima Air & Space
17 Museum. This is a pathway that they transport planes
18 from Davis-Monthan Air Force Base to the Pima Air & Space
19 Museum. And we had a circuit -- segment went right
20 through here.

21 We had a height restriction which limited the
22 height of the poles that could be placed in here. So if
23 this segment were brought forward, we would have to --
24 and approved, an outage would have to be taken out on
25 this segment for Alternative 1 to allow for crossing of

1 the planes from Davis-Monthan Air Force Base to the Pima
2 Air & Space Museum.

3 Q. So to make sure I understand and the Committee
4 understands, what you're describing, there was a
5 variation of Alternative 1 that was considered and made
6 it fairly far through the process. But when you were
7 meeting with Pima Air & Space Museum and other
8 stakeholders -- and I think Ms. Darling will get into
9 this a bit later -- there was enough issues with that
10 variation of Alternative 1 such that that variation was
11 dropped; is that right?

12 A. (BY MR. RAATZ) Yes, that's correct.

13 Q. Okay.

14 A. (BY MR. RAATZ) So, lastly, the other design
15 considerations was our existing system.

16 We've got areas along this, as I testified to
17 yesterday, where we will be collocating existing 46 if
18 Alternative A and Alternative C1 is approved. And
19 there's also areas where we would be collocating an
20 existing 138 transmission line with the proposed line
21 segments, Alternative A and Alternative B2.

22 Q. Does that cover the various design and
23 development considerations that we thought was important
24 for the Committee to understand?

25 A. (BY MR. RAATZ) Yes, it does.

1 MR. DERSTINE: I think at this stage, I'm going
2 to turn it over to -- is there a question?

3 CHMN. CHENAL: Just to make sure I am
4 understanding correctly.

5 So Alternative A and C1, north of Patriot,
6 there's existing 48, or at least part of that segment?

7 MR. RAATZ: That's correct.

8 CHMN. CHENAL: And then on Pantano north of
9 Escalante, that has existing 138; is that correct?

10 MR. RAATZ: That is correct.

11 CHMN. CHENAL: Thank you.

12 MR. DERSTINE: Next section will be -- I'll
13 turn over to Ms. DeCorse on alternative route analysis.

14 MS. DECORSE: All right.

15

16 EDMOND BECK, ERIC RAATZ, and RENEE DARLING,
17 called as witnesses on behalf of Applicant, having been
18 previously duly sworn, en masse, by the Chairman, were
19 examined and testified as follows:

20

21 DIRECT EXAMINATION

22 BY MS. DECORSE:

23 Q. So, Ms. Darling, that brings us to the
24 alternative route analysis conducted.

25 Can you explain that analysis and the

1 methodology TEP used to develop the three alternative
2 routes?

3 A. (BY MS. DARLING) Yes. I'm doing my own
4 slides. Sorry.

5 So TEP's methodology in its alternative route
6 development is to use the design philosophy that I
7 discussed earlier in my testimony and mesh that with the
8 criteria that the Line Siting Committee is required to
9 consider in the deliberation of the project in
10 determination of which alternative you're going to allow
11 us to carry forward. And we support that with data
12 collection and analysis of that data in relationship to
13 those criteria and our philosophy.

14 So we initially -- is there a study area? The
15 study area map with the -- okay. Sorry. We've got too
16 many slides.

17 So we initially developed a preliminary study
18 area, which is the more open hatching that you see on the
19 left side of the study area going from Irvington to Port
20 to Patriot to East Loop, which was a very direct route.
21 And within that, we had these preliminary link segments
22 that you see on the right screen.

23 So that's what we started with. We developed
24 it internally. We took that out to the public and to the
25 stakeholders, and we also did a preliminary engineering

1 and constructability assessment of all those links that
2 are shown in the table on the right.

3 And this analysis, the report itself is Exhibit
4 B-1 in the application. So the full report with all the
5 details, should you want to fall asleep quickly tonight,
6 is available to you.

7 After that, the first round of outreach and the
8 initial EC assessment based on both the outreach, the
9 comments from the public, and the study itself, the
10 constructability assessment, we expanded the study area
11 to capture the existing 138kV along Pantano Road, which
12 we had not initially done. And so that it pushed out --
13 we also expanded the potential --

14 Could you advance the right slide. Sorry.

15 So we also examined the potential use of the
16 Pantano Wash down to Golf Links. So right now, you know,
17 we get into the C1 corridor at 22nd. There was a C2 that
18 went down to Golf Links.

19 So you can see going -- can you go back to the
20 first -- yes. All of the yellow-shaded links in the
21 table are links that were removed following the
22 preliminary link segment. And then these are all links
23 highlighted that were added following the first round of
24 outreach.

25 Again, this is based on public comment, based

1 on stakeholder coordination, and based on our own
2 internal engineering and constructability assessment.
3 And it's all detailed in the report.

4 Q. So, Ms. Darling, before you continue --

5 A. (BY MS. DARLING) Yes.

6 Q. -- can you use your laser pointer, or maybe
7 it's -- I'll just do it if it works -- where you add --
8 if you could just show on the map --

9 A. (BY MS. DARLING) Sure.

10 Q. -- which ones were added and removed.

11 A. (BY MS. DARLING) Can you go back to the -- So
12 the majority of the links that were removed were down
13 here south of what is now the common route. It was where
14 we had the option to get further away from the DM runway
15 and down along I-10. And the reason was at the time we
16 initially went out, we had not done a lot of coordination
17 with DM yet. We didn't know what our restrictions were
18 that close to the airfield. And so we wanted to have as
19 many options as possible.

20 Q. Thank you.

21 A. (BY MS. DARLING) And then if we go back to the
22 final revised.

23 So here, we added -- as I said, we'd added this
24 option to get into Pantano Wash earlier. And then we
25 added the whole Pantano alignment where the existing

1 138kV line is. That was formerly just -- not very good
2 at this advancing stuff -- that was originally the study
3 area boundary in the preliminary -- right here. This one
4 is Pantano Road.

5 So we took the revised link segments that you
6 see on the right screen, and we went out again in
7 outreach -- I'm sorry. I'm mistaken.

8 We did -- on the revised link segment, we did a
9 revised engineering constructability assessment and
10 internally put these links into multiple routes that we
11 then presented in Outreach 2.

12 So we had two alternatives from Irvington
13 Substation to Patriot Substation, which is the --
14 Alternative 1 was the common route now that we have. And
15 we had an Alternative 2, which was the one that went
16 along Valencia Road north of Pima Air & Space Museum,
17 which is the one that was just explained why it was
18 removed.

19 So because those were the only two alternatives
20 that we ended up with after we formed our internal
21 preliminary alternatives, that's why we now only have one
22 common route. So it's kind of the process of we had all
23 these links that you see on the left. Most of them got
24 removed based on public comment because of them being
25 nearer to residential areas and because, in the EC

1 assessment, we determined we could get closer to the
2 airfield than we initially thought.

3 So we were able -- so that's why we only formed
4 the two alternatives, the Alternative 1 and
5 Alternative 2. But then, through additional coordination
6 in the second round of outreach, we determined that that
7 one needed to be removed.

8 So that's how we came to only have a common
9 route from Irvington to Patriot.

10 And then --

11 Q. So then are -- if you could walk us through how
12 you narrowed it down from seven alternatives. You just
13 mentioned three?

14 A. (BY MS. DARLING) So we just went to five
15 because we had the common route. And then north of
16 Patriot, we had A, we had B1, B2, C1, and C2. So those
17 were narrowed down in the second round of outreach. So
18 the public was presented with Alternative 1,
19 Alternative 2, Alternative A, B1, B2, C1, and C2, both
20 the public and the stakeholders.

21 And the additional -- another round of
22 engineering and constructability assessment was looked at
23 at all those combined routes. And when we came out the
24 other side of that outreach is when we narrowed it down
25 to the three you see in the application and that are

1 presented now.

2 So the whole process of why we did that is in
3 the report. I'd be happy to go into more detail or not.
4 It's up to you.

5 MEMBER NOLAND: Mr. Chairman.

6 CHMN. CHENAL: Member Noland.

7 MEMBER NOLAND: Mr. Chairman, Ms. Darling, so
8 then there really was a route along the Pantano Wash that
9 was considered that transected 22nd? Was that 22nd?

10 MS. DARLING: Well, it didn't. It actually --
11 let me get my pointer here.

12 It came across -- where's Golf Links? It was
13 basically -- there was a segment on Escalante, and then
14 there was the segment on Pantano. But here at Golf
15 Links, we did have a link that brought us over to the
16 Pantano Wash at Golf Links and brought us up through the
17 Pantano Wash all the way. It didn't actually -- because
18 the wash doesn't quite touch 22nd Street, but it goes by
19 it.

20 MEMBER NOLAND: Well, I'm just saying -- my
21 question earlier was: Did you look at or why didn't you
22 look at doing that crossover into the Pantano Wash?

23 MS. DARLING: We did, but further south at Golf
24 Links instead of that 22nd. So we did look at it, but it
25 ended up being -- well, if we look at the -- can you go

1 to the preliminary routes where it shows C2?

2 MEMBER NOLAND: Hold on just a second. I want
3 to be sure I understand that we're talking the same
4 thing.

5 Can you take it back to the previous -- there.
6 Here's where you came across and straight up
7 through the Pantano Wash --

8 MS. DARLING: Right.

9 MEMBER NOLAND: -- it looks like.

10 MS. DARLING: Right.

11 MEMBER NOLAND: So I guess I'm confused now.
12 I'm sorry. I thought that Mr. Beck said that you didn't
13 look at that, but it looks like you did. And why was
14 that taken out of the whole scheme of things? Was it
15 cost?

16 MS. DARLING: We looked at them as -- we looked
17 at them as individual segments. I guess what probably
18 Mr. Beck meant is we never combined that into an
19 alternative, maybe. I don't want to speak for him, but I
20 think that's maybe what -- but we did look at individual
21 segments that, had we ended up combining them, may have
22 formed -- I think what you're saying -- is which stayed
23 in the wash all the way through.

24 MEMBER NOLAND: But you did individual segments
25 all the way up through the Pantano Wash --

1 MS. DARLING: Yes.

2 MEMBER NOLAND: -- from this area all the way
3 up through to the East Loop area?

4 MS. DARLING: That is correct.

5 Can you go to the actual alternatives, the
6 five. There.

7 So you can see -- I can't see, but --

8 MEMBER NOLAND: This is what I'm talking about
9 right here.

10 MS. DARLING: That's C2, which was removed and
11 wasn't included in the application.

12 MEMBER NOLAND: And can you specifically tell
13 us why that was excluded and not included in the
14 application?

15 MS. DARLING: Yes. So when we did the scoring
16 of all of the alternatives, A, B1, and B2 all scored a 25
17 out of 33 under the 11 criteria that we look at. We're
18 kind of jumping a little bit ahead because I haven't gone
19 through what the criteria were or how we scored, but --
20 and C2 scored the lowest of all of the six. So it was A,
21 B -- five. Sorry. Scored the lowest of the five
22 alternatives that we looked at. So that's why it didn't
23 make it into the final application.

24 MEMBER NOLAND: Can you get into that when you
25 do get down to the criteria --

1 MS. DARLING: Yeah. I'm almost there.

2 MEMBER NOLAND: Okay. Thank you.

3 MS. DARLING: Okay. I've got numbers to my
4 notes here.

5 All right. So the criteria that we look at are
6 the presence/absence of an existing corridor; existing
7 and planned land use; residential development; sensitive
8 receptors; room for separation from existing utilities,
9 such as gas, water, ourselves; the viewshed analysis;
10 eligible cultural resources; special status species;
11 100-year floodplain; the ability to construct and
12 maintain the line; and cost.

13 So each of those 11 criteria are looked at and
14 each of the five alternatives. And they're scored a 1
15 for a major effect, a 2 for a moderate effect, and a 3
16 for no effect in each of those 11 criteria. And they're
17 compared against each other, so A compared against B1 and
18 compared against B2 or A against C1 or C2. And they get
19 assigned a score, which is in the report.

20 Do you want me to give you the page number?

21 MEMBER NOLAND: No.

22 MS. DARLING: Okay.

23 MEMBER NOLAND: What I'd like you to tell me is
24 why it scored poorly compared to the rest. Was it
25 because it's in a floodplain? Was -- because I would

1 score it higher because it wasn't impacting current
2 neighborhoods and current houses.

3 MS. DARLING: Right.

4 MEMBER NOLAND: So it depends on your criteria
5 as compared to maybe the public's criteria or whatever.

6 MS. DARLING: Well, residential use is a
7 criteria. So, obviously, in that -- under that criteria,
8 it would score better than A or B1 or B2.

9 But it did score -- and I'm trying to get to
10 the actual table so that I can give you real numbers.

11 So I'm looking at Exhibit Page 37 if anybody
12 wants to know where I'm at.

13 CHMN. CHENAL: Which exhibit?

14 MS. DARLING: I'm sorry, the application,
15 exhibit page 37 of the application.

16 CHMN. CHENAL: Give us all a moment to get
17 there.

18 MEMBER NOLAND: Could you put it up on the
19 board?

20 MS. DARLING: Can we?

21 P-Dub can do anything. We just have to give
22 him a minute.

23 Maybe -- before we get into the scores, I'll
24 just make one more point because I'm sure it will be
25 asked is: A, B1, and B2 all scored -- they tied with a

1 score of 25 out of 33.

2 The reason those three weren't the -- put into
3 the application and no Cs were put in the application is
4 that B1 and B2 are basically identical except for that
5 small segment of the line that goes through the Tucson
6 Meadows neighborhood that we wanted to reroute outside of
7 the neighborhood. So we chose to leave B1 out of the
8 application, which is the one that went straight through
9 the Tucson Meadows neighborhood.

10 Oh, wow. I have a correction.

11 CHMN. CHENAL: Can I ask a question here,
12 Ms. Darling, before we go further?

13 MS. DARLING: Yes.

14 CHMN. CHENAL: I'm looking at what I believe to
15 be is exhibit page 37 of the application, and I see a
16 Table 6 with criteria and alternatives. And alternatives
17 refer to Alternatives A, B1, B2, C1, and C1. Should one
18 of those C1s be C2?

19 MS. DARLING: Mr. Raatz just pointed out the
20 error. And so the last column is C2, yes. So,
21 apparently, we do have a correction to the application.

22 CHMN. CHENAL: No problem. It's easily
23 understood.

24 MS. DARLING: So I was saying that -- yes, so
25 B1 was not included in the application, and we included

1 the next highest scoring alternative, which was C1, which
2 would allow us to look at an alternative that was more
3 impactful maybe on the natural environment than the built
4 environment.

5 CHMN. CHENAL: So the one that was -- you've
6 narrowed it down. You left off C2 --

7 MS. DARLING: Right.

8 CHMN. CHENAL: -- correct? And that's the one
9 that Member Noland was pointing to which kind of goes
10 southeast-northwest through --

11 MS. DARLING: Through the entire wash.

12 CHMN. CHENAL: -- the entire wash.

13 MS. DARLING: Yeah.

14 CHMN. CHENAL: So maybe you could discuss this
15 now.

16 MS. DARLING: One factor is we put three
17 alternatives in instead of four alternatives. It's also
18 further from our design philosophy than A and B2 are,
19 which is use existing right-of-way, use existing
20 corridors, use existing infrastructure, but we did
21 include 1. We wanted to have 1 in there even though, in
22 this analysis, it might be a little lower scoring, so
23 it's still there. We just didn't put both of the Cs in,
24 just like we didn't put both of the Bs in. It was a
25 decision that was made for those reasons.

1 CHMN. CHENAL: So I'm struggling here a little
2 bit. I'm looking at the Table 6 that's on page 37.

3 MS. DARLING: Yes.

4 CHMN. CHENAL: And I'm looking at the
5 alternatives, A, B1, B2, C1, and I know that the last
6 column to the far right should be C2.

7 MS. DARLING: Yes.

8 CHMN. CHENAL: I look down at the category for
9 criteria No. 3: Residential development adjacent to the
10 corridor.

11 And I look over at the far right, it's the
12 column that should be C2, and it has a 3 there. I kind
13 of thought when you were giving your scoring that the
14 ones that were the least impactful had the lowest number?

15 MS. DARLING: No, the highest. Sorry. The
16 least impact, as in no effect, no impact, is a 3, and the
17 worst impact is a 1.

18 CHMN. CHENAL: Okay.

19 MS. DARLING: So this means that in relation to
20 how the criteria -- the percentage is used -- so, again,
21 residential use on this whole transmission line, because
22 it's so long and goes through so much industrial and
23 commercial use, are very close together. We have, I
24 think, 7 percent residential use adjacent to C1 and only
25 like 10 percent along B2 and about 11 percent along A out

1 of the whole 100 percent length of the project. Even
2 though we saw all those residences, it's because the
3 common route is through so much nonresidential use that
4 those percentages end up being so low.

5 So they're very comparable to each other. But
6 in order to distinguish between the Cs and the Bs and the
7 As, there was that cutoff there at the 10 percent. So
8 the Cs got a 3 because they were less than 10 percent,
9 and the Bs and As got the 2s because they were greater
10 than 10 percent under that one number, residential
11 development.

12 CHMN. CHENAL: Member Haenichen.

13 MEMBER HAENICHEN: It seems to me that these
14 are pretty subjective numbers. And I'm just wondering,
15 who and how did they put a 3 in one column and a 2 in
16 another?

17 MS. DARLING: It is subjective, and it involves
18 comparing and contrasting one alternative against
19 another. And it's done as a team. And any other team
20 might look at it differently and score it differently.
21 We do our best. We get the actual factual numbers, this
22 percent, that percent, you know. It has this much
23 percent on residential use; this one has this much
24 percent. But then you have to decide as a team, where do
25 you draw that line between the 3 and the 2 and the 1.

1 It's not a science where it's out there in the
2 textbooks and they tell you, well, when it's 50 percent,
3 make it a 1; and when it's 20 percent, make it a 2. You
4 have to decide. And that's why it's all documented so
5 that you can agree with our subjective decisions or not.
6 But the information is there, and it's how we compared
7 them.

8 MEMBER HAENICHEN: To come up with all of this
9 matrix here is the thing that's very subjective. But
10 then at the end of the day, you make it unsubjective when
11 you say, The highest number wins.

12 MS. DARLING: Well, it didn't win. It's all
13 three are there. And the reason we selected the
14 preferred over the other -- or B2 over the other two goes
15 back to our design philosophy and our ability to have
16 room from separation, to have room to construct the
17 project, to use our existing 138kV line for a long period
18 of the project and rebuild it as a double-circuit for the
19 reasons we talked about with the proximity of homes along
20 Kolb Road.

21 Any of the three can be -- we wouldn't put them
22 in the application if we couldn't build then. But those
23 are the reasons why we selected -- made the decision that
24 we made. And we never based it solely on -- I'm sorry.
25 We never based it solely on the scores. But we have to,

1 again, draw lines somewhere.

2 MEMBER HAENICHEN: Let me just ask you, then,
3 from the company's standpoint, is it true that you could
4 do any of these?

5 MS. DARLING: It's true. We wouldn't have put
6 them in the application if we couldn't build them.

7 CHMN. CHENAL: Member Riggins.

8 MEMBER RIGGINS: I just wanted to mention, too,
9 in regards to C2, even though a good portion of it does
10 go into Pantano Wash, that portion along Golf Links, in
11 between Golf Links and 22nd Street, that was an area last
12 night that we received kind of a lot of -- a significant
13 amount of the public comment was from residents in that
14 neighborhood. Am I correct?

15 MS. DARLING: They were at Pantano and 22nd;
16 right? Yes. So that's along the C1 corridor. I mean,
17 C2 as well, but -- I mean, well, it's on the B2
18 corridor -- I'm sorry, it's along the B2 corridor, which
19 is our preferred.

20 MEMBER RIGGINS: Yeah, I was just -- because it
21 does seem like there would be some residential impact.

22 MS. DARLING: On Golf Links, yes.

23 CHMN. CHENAL: Member Haenichen.

24 MEMBER HAENICHEN: Of these 11 items on the
25 left-hand side of this sheet, which one or more than one

1 of them would you say would be most impacted by
2 information you got from the public in your outreach
3 efforts? Where did they chime in?

4 MS. DARLING: No. 3. 2 and 3. I mean, it's
5 basically -- the majority of the comments were about
6 location and specific to the proximity of the line to
7 their homes.

8 Health concerns are also brought up a lot in
9 public meetings, but those are not one of the criteria
10 specifically looked at.

11 MEMBER HAENICHEN: And that's really
12 subjective.

13 MS. DARLING: Exactly.

14 Q. BY MS. DECORSE: So, Ms. Darling, if I could
15 jump in.

16 Maybe if you could go fast-forward to -- what
17 are the key considerations the company considered when
18 looking at the preferred? And then we can move backwards
19 from that if we need to.

20 A. (BY MS. DARLING) So the justification for the
21 preferred?

22 Q. And I know that the table and the ranking is
23 one of those, but maybe to put it into context how you
24 use that.

25 A. (BY MS. DARLING) So rank -- can you put the

1 presentation back up, P-Dub.

2 So rank is one of the considerations that we
3 look at. And, as I said, you know, two of the
4 alternatives that are in the application scored the same.
5 And that was the Kolb Road and the Pantano Road
6 alternatives.

7 So the reason that we selected B2 over Kolb
8 Road, which is A, is the ability that we have there to
9 relieve the encroachment upon the existing transmission
10 line at the Tucson Meadows neighborhood.

11 This says wider right-of-way, but the
12 right-of-way of Kolb and Pantano are both 150 feet. What
13 I meant by "wider right-of-way" is, I guess, availability
14 of the right-of-way that's not developed.

15 So, as I had mentioned previously, Kolb Road is
16 six lanes. It has a center median, sidewalks,
17 landscaping. And it's developed, basically, to the edges
18 of the right-of-way. There's very little room for even
19 our existing facilities that are there.

20 Whereas, Pantano Road is four lanes, it does
21 have a center median, but there's more room, and we have
22 an existing transmission line corridor established on
23 that -- in that right-of-way. So it allows -- we're
24 confident that we can build there. We did ask for the
25 wider corridor for incidentals, things that might happen.

1 But as Eric described -- or Mr. Raatz described, the arms
2 are actually going to be shorter than on the existing
3 line right now.

4 There's also less conflicting utility uses on
5 Pantano Road than there are on Kolb Road. There's a lot
6 of existing -- there's existing water, sewer, gas, all of
7 those on Kolb. They're also on Pantano. There's just
8 fewer of them on Pantano.

9 And we felt, in some portions of the project,
10 there was actually less visual impact from the Pantano
11 Road option than the Kolb Road option, mainly, north of
12 22nd Street.

13 When we were taking the tour, if you recall, we
14 will have the double 46kV line on the west side of Kolb
15 Road north of 22nd. And then from there, we would be
16 double-circuiting the existing 138kV line on the east
17 side. That's basically putting a double-circuit
18 subtransmission and transmission line from 22nd to
19 Speedway all up Kolb Road, which is, you know, more
20 cluttered, I guess you would say, and because it's also
21 much closer to the road because the road is so built out.

22 And then the less construction impact again
23 goes to the more built-out road because it's six lanes.
24 We will -- in order to build so close to the pavement, we
25 would be closing lanes down. It's just going to be a lot

1 tighter, so we're going to have a lot more traffic
2 impacts during construction.

3 So those were the main reasons why we selected
4 B2 over A.

5 Q. BY MS. DECORSE: Okay.

6 CHMN. CHENAL: Member Haenichen has a question.

7 MEMBER HAENICHEN: Yeah, I finally understood
8 this. The bold numbers on the bottom, 25, 25, 25, 20,
9 19, are the sum of all the numbers 1 through 11.

10 MS. DARLING: Yes.

11 MEMBER HAENICHEN: Yeah. The problem I have
12 with this kind of analysis is that, for example, on 7 --
13 well, let's take 8. You're considering a 3 there as just
14 as valuable as a 3 in any of the other ones.

15 MS. DARLING: That is true.

16 MEMBER HAENICHEN: So how do you decide which
17 of these 11 criteria are the most important?

18 MS. DARLING: They're not weighted, that's
19 true. They're not weighted. They are equally important
20 in this analysis.

21 MEMBER HAENICHEN: That's a real problem.

22 MEMBER NOLAND: Mr. Chairman.

23 CHMN. CHENAL: Yes, Member Noland.

24 MEMBER NOLAND: Could you explain No. 6 and how
25 you can arrive at the viewshed of a 3 on a residential

1 area as compared to a 1 along the wash area.

2 MS. DARLING: Because everywhere along A, B1,
3 and B2, it's developed. And there are existing
4 distribution lines or subtransmission or transmission
5 lines or commercial. There's built environment.

6 And on the wash ones, there aren't -- oh, I see
7 what you're saying.

8 MEMBER NOLAND: I'm just having real problems
9 with this. And I guess viewshed, I'm thinking viewshed
10 of people looking at lines and new lines and bigger
11 poles.

12 MS. DARLING: Well, right. But they're
13 already -- the City's light poles. There's the City's
14 traffic interchanges. There's the existing distribution
15 and the transmission. Whereas, on the wash segments,
16 it's a recreational river park trail along the entire
17 alignment of the Pantano Wash that has no facilities on
18 it right now. So that's a greater impact on the viewshed
19 than on the major roads that the other lines would be
20 proposed to be built on. That's the difference, and
21 that's how we came to that conclusion.

22 MEMBER NOLAND: Well, I think people would
23 agree to disagree on that particular thing.

24 But I know how TEP feels about building those
25 lines in the wash even though there are many of them in

1 the Pantano Wash in other areas that have been there
2 through floods and everything else. And we've had this
3 discussion before. So I think this is one we'll agree to
4 disagree on.

5 MS. DARLING: Okay. And you're right, we do
6 have lines along the Rillito, along the Santa Cruz. And
7 we can build the C1 alternative. We would need a use
8 permit is all. And that's why there's a difference in
9 the land use scoring as well, because it would need a
10 special permit, but it is doable.

11 Q. BY MS. DECORSE: So, Mr. Beck or Mr. Raatz, if
12 you want to maybe touch on or speak to the technical
13 considerations.

14 MR. BECK: Yes.

15 Member Noland, we have had this discussion in
16 the past.

17 MEMBER NOLAND: Many times.

18 MR. BECK: And, yes, we do have lots of lines
19 in the washes. And for the most part, most of them
20 stayed up through the floods, but we have lost individual
21 poles in those floods. And the biggest one that comes to
22 my mind was in 1983 where we lost several key poles, and
23 we were on the brink of blacking out the city of Tucson.
24 Our operations people were so afraid just one little
25 glitch would have taken us black, and it was because we

1 had lost our major 138 lines down the washes.

2 But, yes, we do build them there. We have
3 built them there. And for the most part, most of them
4 have stayed up through the floods.

5 MEMBER NOLAND: That was our largest flood, if
6 you remember. I remember it well. I lived on that same
7 wash, and part of the development washed away.

8 But you have now, I think, more ability if
9 something does happen in one segment to allow for a
10 rerouting of electricity to handle those things until
11 they're repaired; is that correct?

12 MR. BECK: That's correct. We're beefing up
13 our reliability in our system so that we do have multiple
14 paths. So it's less of an issue than it was in '83. But
15 just for the record, we have lost some poles. But can
16 they be built in the wash? Yes.

17 MEMBER NOLAND: 37 years ago. Yeah, that was a
18 long time ago.

19 MR. BECK: Yes.

20 Q. BY MS. DECORSE: Mr. Beck, can you also speak
21 to the technical considerations around Davis-Monthan Air
22 Force Base. The pole -- I think we've touched on the
23 pole height, but would there be any type of outages
24 required in order to construct that portion of the line?

25 A. (BY MR. BECK) No. I don't see any special

1 issues with the wash relative to Davis-Monthan.

2 Q. Oh, I meant separate and apart, moving on to --

3 MEMBER NOLAND: Oh, we're off of that?

4 MS. DECORSE: Yes. Sorry to jump.

5 MR. BECK: Maybe restate the question.

6 MS. DARLING: Are you talking about at Pima

7 Air & Space Museum?

8 Q. BY MS. DECORSE: Yes.

9 A. (BY MR. BECK) Yes. Relative to the Pima Air
10 and Space Museum, we eliminated those alternatives in
11 front of the air museum because of the issue of the
12 height restrictions from both the FAA as well as DM. We
13 know what the FAA restrictions would be. We had specific
14 discussions with DM. We couldn't put the poles any
15 higher. And at the heights that we would be limited to,
16 it wouldn't allow them to carry planes underneath to get
17 to the air museum without taking the outages on the line
18 and actually somehow raising the line temporarily during
19 that movement of a plane.

20 CHMN. CHENAL: Member Haenichen has a question.

21 MEMBER HAENICHEN: I'm still going back to this
22 page, Exhibit Page 37 chart.

23 And back to the question about reliability and
24 the judgments that it causes you to make.

25 For example, No. 6, the last two, C1 and C2,

1 scored much lower than the three previous ones.

2 It would seem to me, just subjectively, that
3 it's more important that people who are living there all
4 the time and looking at this, that their opinions should
5 rank -- have more weight than this, which is a matter of
6 people driving by and so on. Because it's just -- why
7 should we cause angst to these residents. That's my
8 concern. So I don't know what we can do about it, but it
9 just bothers me.

10 MS. DARLING: Do you want me to speak to that?

11 So it's measured by change. That's how it
12 comes to those numbers. So the biggest change is where
13 there's nothing, and you're adding. That's why those got
14 1s. And then the others, you're -- as I had spoken to
15 before, there's already existing distribution, existing
16 subtransmission, existing transmission, existing light
17 poles, businesses, traffics, interchanges, all of those
18 things along the routes, and that's why they got a 3.

19 And, again, it's subjective, so it's not -- you
20 know, you don't have to agree, but I'm trying to explain
21 how we scored it and why.

22 MEMBER NOLAND: Mr. Chairman.

23 CHMN. CHENAL: Member Noland.

24 MEMBER NOLAND: I'm not going to beat this
25 horse to death, but I will make one more comment.

1 If you took the residential area feelings into
2 account with disruption, construction, so on and so
3 forth, and their ideas of viewshed, the A, B1, B2 would
4 all be at a 1, and C2 would probably be at a 3, and that
5 would bring them all into line almost about the same
6 total amount in making a decision.

7 And that's how I would look at it if I were a
8 resident in the area as compared to having construction
9 in the wash that is at a lower level, that the poles or
10 whatever type of unit you have to use in the wash are at
11 a lower level and less visible because of the businesses
12 and so on that are along the wash area.

13 People just aren't going to see them the same.
14 Yes, people will see them that use the wash for
15 recreational purposes. But I use the wash for
16 recreational purposes behind my house, and they never
17 bothered me.

18 So I'm just saying, it is so subjective. And
19 you're looking at it from one way, and somebody else
20 would look at it from another way. And then you'd be
21 almost even-stein all of the total amounts that you're
22 looking at in making your decision.

23 That's just my opinion.

24 MS. DARLING: Okay.

25 CHMN. CHENAL: Member Haenichen.

1 MEMBER HAENICHEN: Just to add to this
2 discussion, if we go down and look at cost of
3 construction, that is where, for example, C2 bombed out.
4 I don't think that's that important because it's going to
5 eventually be paid for by the ratepayers, and the
6 amount -- it would be nice if we knew what the difference
7 numerically is over time. But I wouldn't -- I would give
8 that less weight.

9 MR. BECK: Member Haenichen, while I understand
10 your point and there's some merit to it, we also do try
11 and keep our customer rates as a key component of our
12 consideration. And the more we add to these projects,
13 the more ultimately goes to customers.

14 I understand that it gets spread over a lot of
15 customers, so, you know, incrementally, it's a small
16 amount. But this isn't our only project, just as a
17 point.

18 MEMBER HAENICHEN: I understand your reasoning
19 here, and that's good reasoning.

20 But it would be nice if you could say to us,
21 Well, if we take the one where C2 scored a 1, how much
22 more is it going to cost the customer? It may only be a
23 few bucks, and then I would say, So what?

24 MR. BECK: And I understand that position. But
25 just to caution you on the issue that when we come to

1 these processes for a CEC, we don't have a final design.

2 And to really get a good handle on what those
3 increments are, we would have to really look at the
4 design on these different alternatives. And if that were
5 the direction in the future that we were asked to go, we
6 can do that, but it adds a lot more manpower on our side
7 and time to develop the projects. But I understand your
8 position relative to that understanding of the cost.

9 MEMBER HAENICHEN: Yeah, but you -- to get to
10 arrive at these numbers on this chart, you must have
11 selected some set of criteria to come up with a 1, a 2,
12 or a 3 on a particular line.

13 MR. BECK: That is true. There's a general
14 underlying cost indicator. But it would be hard for us
15 to come forward and say, Here's the number to
16 differentiate between these alternatives at the level of
17 design we've got.

18 CHMN. CHENAL: I think it would be fun, just as
19 a fun exercise, is to give the Committee the score sheets
20 and let us come up with the numbers, and I think they'd
21 be a little different.

22 MS. DARLING: We can do that. We'll give you
23 some blanks.

24 CHMN. CHENAL: That's the nature of subjective,
25 right, analysis; right? I mean, we could all come up

1 with different numbers.

2 So not picking on the team, but it -- you know,
3 there were comments made by the public, and there is an
4 alternative that actually was looked at that might have
5 some merit. And so I think that prompts some of the
6 questions.

7 Member Woodall and then Member Haenichen.

8 MEMBER WOODALL: So are there other
9 environmental planning entities that follow a similar
10 technique, or did you create this -- is this TEP's and
11 TEP's alone?

12 MS. DARLING: No, it's not.

13 MEMBER WOODALL: So it's been used by other --
14 I think I remember another environmental planning firm
15 using a similar technique. I believe some federal
16 agencies might use a similar technique.

17 So this is not unique to Tucson Electric Power
18 and how they rank it?

19 MS. DARLING: No. The process isn't unique,
20 but you do come to a point where you have to use your own
21 subjective opinion of the team.

22 MEMBER WOODALL: Of course.

23 MS. DARLING: But the process, the way the
24 criteria are looked at, comes from another place.

25 MEMBER WOODALL: The other entities also use

1 "subjective"; is that correct?

2 MS. DARLING: That's correct.

3 MEMBER WOODALL: Okay. I just want to make
4 sure this isn't like just TEP running wild.

5 All right. Thank you.

6 CHMN. CHENAL: Member Haenichen.

7 MEMBER HAENICHEN: One final comment on this,
8 and then I'll be quiet.

9 You have to realize that some of these things
10 where the numbers 1, 2, and 3 are, are one-off things.
11 And cost is one of them. Other ones are not one-off.
12 The guy is looking out his window every day for the rest
13 of his life at it. So I don't see that embedded in this
14 anywhere.

15 Q. BY MS. DECORSE: So, Ms. Darling, I have one
16 question: When did you do this analysis in the process?
17 Had we done Outreach 1 and 2?

18 A. (BY MS. DARLING) So we had done Outreach 1 and
19 2. This is when we came -- because we presented all of
20 these alternatives, along with 1 and 2, to the public and
21 to our stakeholders, and then we came back.

22 Q. Okay. So would the considerations with respect
23 to maybe residential development and the public --
24 theories that the public was concerned about, did the
25 company weigh that in their analysis of these?

1 A. (BY MS. DARLING) Yes. I mean, that helps
2 inform which -- from the beginning, which links are
3 removed and then which alternatives are more favored over
4 other alternatives. That's all part of it as well.

5 Q. Okay. And we'll get into that later in the
6 public concerns.

7 A. (BY MS. DARLING) Right.

8 CHMN. CHENAL: Just a note for the record that
9 there's a direct relationship between the number of
10 questions that Member Haenichen asks and the lack of
11 cookies.

12 MS. DECORSE: Are there no cookies?

13 CHMN. CHENAL: There are no cookies. I'm
14 stating the obvious.

15 MS. DARLING: I said to have cookies here all
16 the time.

17 CHMN. CHENAL: Well, now you know what happens
18 if you don't.

19 MEMBER HAENICHEN: Am I that obvious?

20 CHMN. CHENAL: On a serious note, are there
21 members of the public who are here to speak for a call to
22 the public?

23 (No response.)

24 CHMN. CHENAL: Okay. Because I would be remiss
25 if I didn't ask, and I should have asked earlier, and I

1 apologize if you were intending to speak.

2 Okay. Please proceed.

3 Q. BY MS. DECORSE: So I wanted to follow up on
4 two comments you had said earlier with respect to the ADA
5 sidewalks and the letter -- I believe it -- was it from
6 the City of Tucson?

7 A. (BY MS. DARLING) Uh-huh.

8 Q. And was the cost to include those sidewalks
9 in -- is that part of the number that we see on our
10 placemat?

11 A. (BY MS. DARLING) So for both Kolb Road and
12 Pantano Road, an easement was assumed along the entire
13 route. I think it was a ten-foot easement just for the
14 cost estimate. So the purchase of a ten-foot easement
15 along the -- north of Patriot.

16 Q. And I believe it was Member Noland that had
17 mentioned also the aerial easement cost. Is that in --

18 A. (BY MS. DARLING) Right. So it was an
19 easement, whether it be aerial or a sidewalk, was assumed
20 along both just for the purposes of a just-in-case cost
21 estimate.

22 MEMBER NOLAND: Mr. Chairman.

23 CHMN. CHENAL: Member Noland.

24 MEMBER NOLAND: Quick question. The easement
25 that you're discussing for the sidewalk and so on, is

1 that with the City of Tucson?

2 MS. DARLING: Well, yes. So the City of Tucson
3 had commented that anywhere that we placed our facilities
4 in road right-of-way, we had to maintain the existing ADA
5 4-foot sidewalks or room for them to build them at a
6 future date if they weren't already built because we have
7 the 3-foot circumference on our base of our poles. And
8 they had been having some concerns or issues with some of
9 our installations.

10 On Kolb Road, certainly, I had spoken to this
11 before, we would -- in order to keep our facilities in
12 the road right-of-way and as far from homes as possible,
13 we would have to purchase an easement from these
14 homeowners for a sidewalk to either be moved or, in the
15 future, built. We wouldn't pay for the sidewalk unless
16 we had to destroy the sidewalk.

17 MEMBER NOLAND: I really wasn't talking about
18 that.

19 MS. DARLING: Okay. I'm sorry.

20 MEMBER NOLAND: Well, you answered part of it.
21 You don't have to purchase easements from the
22 City of Tucson?

23 MS. DARLING: We have some portion of our
24 project that crosses City of Tucson-owned land. In those
25 cases when it's outside of a road right-of-way, we would

1 be purchasing easements from the City of Tucson.

2 MEMBER NOLAND: Do you have to purchase
3 easements in a wash from the County or City or whoever
4 in control of it?

5 MS. DARLING: We do, yes.

6 MEMBER NOLAND: You pay for them?

7 MS. DARLING: Yes. And we have to also obtain
8 the use permits. And those costs are in the cost of the
9 project that you see.

10 MEMBER NOLAND: Okay. Thank you.

11 CHMN. CHENAL: Member Haenichen.

12 MEMBER HAENICHEN: Ms. Darling, this is just a
13 technicality, but twice now, you have referred to a
14 3-foot circumference of the pole. Didn't you mean
15 diameter?

16 MS. DARLING: Diameter. I'm sorry. Thank you
17 very much.

18 MEMBER HAENICHEN: That's Pi times ...

19 MS. DARLING: Yes. Yes. Thank you.

20 Q. BY MS. DECORSE: And, Ms. Darling, do you know,
21 the City of Tucson, do they have a preference on the
22 alternative? I know we're jumping and you will get to
23 that, but I'm just curious.

24 A. (BY MS. DARLING) No. If you refer to their
25 letter, they basically said, Just please take these items

1 into consideration in your selection of the alternatives
2 that you put in the application. And I get into that
3 when we start talking about stakeholder involvement.

4 MS. DECORSE: Okay. So, timingwise, I think
5 we're now onto a different section, the planning process,
6 or chapters, as Mr. Derstine has referred to them. So we
7 can keep going if you like. I just ...

8 CHMN. CHENAL: I wonder if we should take a
9 short break.

10 MS. DECORSE: Whichever you prefer.

11 CHMN. CHENAL: We can go to 5, so let's take a
12 ten-minute break, and we'll resume.

13 (A recess was taken from 4:06 p.m. to
14 4:34 p.m.)

15 CHMN. CHENAL: Let's go on the record.

16 And before we begin, I'm going to introduce
17 as -- I'm going to say it's Chairman's Exhibit 1 right
18 now, but I want to give it another number tomorrow. It's
19 going to be a CEC that uses the applicant's CEC with just
20 a few changes and additions for discussion that I have.

21 And I want to pass a copy out to the members of the
22 Committee and to the applicant and to the court reporter.

23 And as our usual course, when we get into the
24 deliberations, we'll start with this or something close
25 to this, and then we will work our way through the

1 process. And this will be the second to last exhibit.

2 And what we work with on the right-hand screen,
3 if you will, will become -- will be the last exhibit. So
4 this will be second to last, and that will be the last.
5 And that last exhibit will become the CEC as soon as it
6 gets voted on.

7 So I will pass that out now. I'll ask my
8 assistant to get a Word version of it, too, to you. And
9 we'll introduce this into the record.

10 I'll hand out what's Chairman's Exhibit 1. But
11 I'm going to have my assistant provide the applicant with
12 a Word version. And then tomorrow, that Word version
13 will be -- when it's on the screen, will be -- let's do
14 it a different way. What's the last exhibit that TEP
15 has? Is it 16 or 17?

16 MS. DECORSE: Currently, it's 17, but we
17 have -- TEP 20 is where we will end up.

18 CHMN. CHENAL: Okay. Well, then let's make
19 this TEP-21 just for identification. It won't be
20 introduced into evidence.

21 So what I've handed out is marked TEP-21 just
22 for identification. And just for clarification, that's
23 the CEC that was proposed by the applicant with just a
24 few -- some additional materials for consideration when
25 we start our deliberations.

1 Not recommending these. This is just for
2 discussion. And then I will have my assistant provide
3 you with a Word version of it.

4 MS. DECORSE: Excellent.

5 CHMN. CHENAL: Okay. So does the Committee
6 have any questions before we get back on with the panel?

7 Member Riggins.

8 MEMBER RIGGINS: Mr. Chairman, this is more of
9 just a procedural question to you. But with the C2 or
10 any proposed route that's not a part of the notice or the
11 final alternates featured in the application, would this
12 body be able to consider those routes as part of this
13 process, or is there some sort of -- I guess I just am
14 curious as to how we could consider them if they're not
15 one of the three featured routes.

16 CHMN. CHENAL: I think the answer to that is
17 the following: I think the statutes require that for
18 material changes -- that the Committee can pick routes
19 that are not part of the application.

20 But I think to do so, the hearing would have to
21 be renoticed because the application does not include,
22 for example, the C2 route. The application proposed only
23 three proposed route, not the C2 route that we have
24 discussed.

25 So in fairness to the public and the parties of

1 interest who may have specific objections to that
2 particular route, they would not be here today because
3 that's not part of the application. If we were to vote
4 on it, I think that would be a lack of due process to
5 them. Because if it had been part of the application,
6 they might be here. So we would have to renotice the
7 hearing, I think, in order to consider that other route.

8 MEMBER NOLAND: Mr. Chairman.

9 CHMN. CHENAL: Yes, Member Noland.

10 MEMBER NOLAND: Well, we have done it
11 differently in other cases. As long as it was in the
12 study area, the original study area, which all of the
13 routes were, we have made changes from a preferred route
14 or any other alternative route to get around certain
15 obstacles or because of certain testimony or whatever
16 else.

17 So I don't know which is right, but I know we
18 have done that in other cases.

19 CHMN. CHENAL: And I think, Member Noland,
20 maybe I'm -- if it's a deviation of a route that is being
21 offered that's not material -- and I guess "material" is
22 really the issue here -- I would say that's correct.
23 It's like a variance.

24 Where it's an entirely new route that's a
25 material change, such as C2, which I know you said it's

1 in the study area, but it's not one of the three routes
2 that is being proposed by the applicant, that, I think,
3 makes it more problematic.

4 MEMBER WOODALL: I associate myself with the
5 Chairman's remarks regarding material change. That's my
6 understanding as well.

7 CHMN. CHENAL: But we haven't had a chance to
8 study it. That's just my understanding, having looked at
9 it previously.

10 But if we're really going to consider something
11 like that, we're going to have to take a time out and
12 give you an opportunity to change it.

13 But I think the material change would be the
14 delineation between having to renotice it. And I
15 think -- my belief would be that considering the C2 route
16 would be a material change.

17 But I don't know if the applicant has views on
18 it. No obligation to put it on the record. I know it's
19 a legal issue.

20 MR. DERSTINE: I haven't gone back and studied
21 the procedural rules, but my recollection is that if
22 there is a change or an amendment to an application, in
23 this case we're going to consider a new route variation
24 that was not included in the application, I think that's
25 probably a substantial deviation or if it is a

1 substantial deviation in the routes that were provided
2 and the notice that was given, then I think that requires
3 compliance with the rule. But I'd like an opportunity to
4 go back and look at the rule and see exactly what notice
5 requirements and what options the Committee might have
6 available to it if it wants to consider that.

7 MEMBER WOODALL: I would recommend that you
8 confer with the Legal Division of the Arizona Corporation
9 Commission because the Line Siting Committee is
10 established by the Commission, and I know that the
11 attorneys over there have opined on similar matters.

12 MR. DERSTINE: I appreciate that.

13 CHMN. CHENAL: All right. So let's go back on
14 the record. And I think, Ms. DeCorse, you were going to
15 continue with the panel.

16 Q. BY MS. DECORSE: All right. So, Ms. Darling,
17 we left off -- now we're onto the planning process.

18 So before the break, we spent a lot of time
19 talking about the project siting matrix. And we
20 understand the Committee's concerns, and we'll take them
21 into consideration most definitely in the next case.

22 But for today, were there any other criteria
23 that the company looked at when assessing what routes to
24 bring forward.

25 A. (BY MS. DARLING) Yes. So we -- following all

1 the applicable statutory and regulatory criteria in the
2 project area, we identified what studies and analyses we
3 needed to do for the project. And we did so in
4 conjunction with the stakeholder and public outreach in
5 order to identify potential impacts or necessary
6 mitigation measures related to those studies.

7 So these are the criteria that you guys are all
8 familiar with under A.R.S. 40-360.6, which are the plans
9 of the state, local government, and private entities;
10 fish, wildlife, and plant life; recreation; scenic areas,
11 historic sites and structures, or archeological sites;
12 the total environmental; and any other additional
13 factors, which, in this case, we did an EMS study, and we
14 also did an FAA analysis, which is Federal Aviation
15 Administration analysis.

16 Q. Before you get into the specific studies, can
17 you give the Committee a general overview of the study
18 area, the environment.

19 A. (BY MS. DARLING) So you drove -- you know, you
20 did the tour today, and you saw that especially north of
21 Patriot Substation, it's very urban, developed area.
22 It's, for the most part, developed or previously
23 disturbed area except along the Pantano Wash, where there
24 are still pockets of native vegetation.

25 The topography slopes from the south to the

1 north, so we go up in elevation a couple hundred feet
2 from one end of the project area to the other.

3 Q. Okay. so the different studies.

4 A. (BY MS. DARLING) Right. So the different
5 studies that we conducted were a biological evaluation
6 that looked at federally listed, proposed listed,
7 threatened, and endangered species; as well as general
8 wildlife and vegetation and migratory birds.

9 And then we also did a cultural resources Class
10 I inventory, a land use analysis, a noise assessment, the
11 EMF study I mentioned, recreation assessment.

12 We completed visual simulations of the project
13 along different key observation points in the project
14 area and the alternatives analysis that we've already
15 discussed.

16 Q. So starting with the biological studies, can
17 you walk us through the findings in the biological
18 evaluation, which is Exhibit C-2 of the application.

19 A. (BY MS. DARLING) Yes. The biological
20 evaluation looked at special status species, which are
21 those threatened endangered that I mentioned.

22 There were 18 special status species
23 potentially occurring in the project area, 14 of which
24 were removed from consideration based on field visits as
25 well as additional research. And I'll discuss those in a

1 minute.

2 We also looked at impacts or potential impacts
3 to general wildlife and vegetation.

4 As I stated, much of the study area has been
5 previously disturbed and/or is landscaped with native and
6 non-native vegetation.

7 There are still some patches of native
8 vegetation, mainly along the Pantano Wash, where there
9 are areas of xeroriparian habitat. There's also
10 wildlife, general wildlife, in the study area, such as
11 native birds, sparrows, cottontails, coyotes, and
12 javelinas.

13 TEP has standard practices for the protection
14 of general wildlife and vegetation. Prior to
15 construction, we do species-specific surveys, including
16 migratory bird surveys, nest surveys. We identify cactus
17 that are native. And if they're in an area where they're
18 native, we would transplant them.

19 We complete these maps that you see on the
20 right screen, which we call construction period maps.
21 So, basically, they'll identify any sensitive areas,
22 cultural sites, or cactus that need to be avoided or a
23 nest that needs to be avoided, how they're going to
24 access the project area, where they're allowed to go and
25 not go.

1 So those are provided to all of the
2 construction crews prior to construction. And they also
3 get this card that I laid out at each of your seats,
4 which gives them their restrictions and rules that they
5 need to follow. And these are project-specific. This is
6 just an example. Not all of them may be applicable to
7 every project. But they'll get one of these.

8 And then they'll also get environmental
9 training. So we have where we go into more detail about
10 all of the different considerations they need to take
11 when they're doing the construction of the project, and
12 completing that training gives them a hard hat sticker.
13 It's a project-specific sticker that they put on their
14 hard hats. And they're kind of proud when they get them.
15 And it basically shows that if you don't have that
16 sticker, you better not be working on this project. So
17 you better go get that training.

18 And we have environmental monitors, if they're
19 necessary, and the environmental monitor is always
20 looking for the stickers. Like, where's your sticker?
21 You don't have your sticker. I've got to give you the
22 training.

23 And we try to practice, to the extent
24 practical, minimal disturbance, minimal clearing, using
25 existing access to the extent possible; and, where we do

1 have to create new access, keeping that as narrow as
2 possible.

3 And then, of course, we always have a
4 stormwater pollution prevention plan in place to prevent
5 erosion along the right-of-way.

6 Q. And are there any potential impacts to general
7 wildlife and vegetation in the area? That's what I
8 just -- you just covered that. Okay. That's right.
9 Just wanted to double-check.

10 So moving on to the four special status species
11 that you mentioned were determined to potentially occur
12 in the area. Can you discuss those in more detail.

13 A. (BY MS. DARLING) Yes.

14 So all four of the special status species are
15 listed by the Arizona Game & Fish Department as species
16 of greatest conservation need. None of them are
17 federally listed by Fish & Wildlife Services as
18 endangered, threatened, or proposed for listing. So
19 they're strictly listed by the local state Game & Fish
20 Department.

21 The first three I talk about are -- can occur
22 on any of the alternatives, and the last only occurs on
23 the C1 alternative.

24 So the first is the western burrowing owl shown
25 here on the left. The field surveys did not identify any

1 actual owls, burrows, or sign of owls, which would be
2 like scat or tracks. But the habitat is there. There is
3 the potential for them to, you know, occur in our project
4 area. So we would resurvey the approved route prior to
5 construction. And if we could not avoid a burrow, we
6 would have to relocate the owl. And there are many
7 places in Tucson where, for construction projects, we can
8 relocate them.

9 Second is the rufous-winged sparrow, which some
10 of you might remember from our last case, which is
11 interesting because it occurred near the Sonoran
12 Substation. And in this case, it occurs -- its habitat
13 is present near our existing East Loop Substation. So
14 the area on our first stop this morning, if you saw kind
15 of all the trees that were between us and the East Loop
16 Substation, that area provides habitat for the
17 rufous-winged sparrow. Again, none were detected during
18 the initial field surveys, but we would resurvey prior to
19 construction. And we were recommended by the biologist
20 who worked on the project to not -- to have as little
21 impact on that vegetation as possible, which, as
22 Mr. Raatz spoke to, we're using those existing lattice
23 towers, so we're not going to create a lot of new
24 disturbance in that area. So we are able to minimize any
25 habitat disturbance there.

1 The next one is the western yellow bat. This
2 is a year-round resident in Tucson, and they roost inside
3 of these Washington fan palms. And there are Washington
4 fan palms along Kolb and Pantano and all of the major
5 roads north of the Patriot Substation. But all of the
6 palms are actually outside of the road right-of-way, so
7 we wouldn't be removing any of them. So we don't
8 anticipate any impact to the western yellow bat.

9 And then the last species is the Brazilian
10 free-tailed bat, also known as the Mexican free-tailed
11 bat. And this is the only one that occurs only on C1
12 alternative, and that's because there is a roost colony
13 underneath the Broadway Bridge at Pantano Wash.

14 The project, if we were to go with C1, is
15 unlikely to have any impact. There's no direct impacts
16 to the bridge there. And given all of the traffic noise
17 already there along the bridge, these bats are very
18 resilient. So our construction noise, were we to build
19 C1 50 or 100 feet away from that bridge, are not going to
20 have any impact on it.

21 And that concludes the biological study.

22 Q. All right.

23 That leads us to the non-biological study. Can
24 you please describe the components of TEP's land use
25 analysis.

1 A. Yes. So we looked at existing and planned land
2 use, including zoning, generalized land use, residential
3 land use, surface management, and land ownership, and
4 planned and proposed land uses.

5 Q. So the Committee is understandably sensitive to
6 the impact on residential use. Can you compare the
7 amount of residential use within each alternative
8 corridor and give us maybe the percentage of residential
9 land use within each corridor?

10 A. (BY MS. DARLING) Yes.

11 Real quick, I'll just show these two slides
12 which are -- on the left is the actual zoning of Pima
13 County and the City of Tucson. The Pima County zoning is
14 outlined in the black. And on the right is the actual
15 land use in the project area versus the zoning. And
16 they're very similar.

17 From Irvington to Patriot, we have a lot of
18 commercial and industrial use. And then on the right
19 side, you'll see the base itself in gray. And then north
20 of Patriot, it's mainly residential use and commercial
21 use. And so zoning and land use in this project are very
22 much the same.

23 And then if you can advance the next slide,
24 P-Dub.

25 So this is the residential land use actually

1 called out. So you can see from Irvington to Patriot,
2 there's very little residential land use adjacent to the
3 corridor except just south of the Patriot Substation, and
4 that's where we actually cross over in the Google
5 Flythrough. You might have seen when we cross over
6 before we get to that neighborhood, and we're on the west
7 side of Kolb Road entering Patriot.

8 When you leave Patriot, Kolb -- going up Kolb
9 or going on C1 or going on B2, they're all adjacent to
10 residential land use. So what we looked at was to
11 compare the three and the percent that they have adjacent
12 residential land use.

13 And I think I mentioned earlier, but A is
14 exactly -- give you the more definite numbers -- 11.8
15 percent of the project link. B2 is 10.32 percent. and
16 C1 is 7.48 percent.

17 CHMN. CHENAL: And, I'm sorry, Ms. Darling,
18 what are those percentages again?

19 MS. DARLING: That's the percent of actual
20 residential use, not zoning use, adjacent to the
21 alternative of the total length of the project.

22 CHMN. CHENAL: And as opposed to private on the
23 right side of the screen?

24 MS. DARLING: Yeah, that slide shouldn't be up
25 yet. I'm sorry.

1 CHMN. CHENAL: Thank you. So can you give the
2 percentages again? I was looking at the private, and I
3 was thinking residential.

4 MS. DARLING: A is 11.8, B2 is 10.32, and C is
5 7.48.

6 CHMN. CHENAL: C1; right?

7 MS. DARLING: Well, the common route is
8 included in all three of those percentages equally. But
9 it's basically the percent of the total length of the
10 entire alternative, not just from Patriot forward.
11 That's why the numbers are low.

12 CHMN. CHENAL: Member Haenichen.

13 MEMBER HAENICHEN: Just to clarify, when you
14 say these percentages of residential land use, what do
15 you mean by "land use"? Ownership?

16 MS. DARLING: No. I mean, the land has --
17 actually has residential use. So it's either a
18 single-family home, a duplex, an apartment complex,
19 residence. People are living there. As opposed to
20 sometimes the zoning doesn't match up so -- or it's not
21 developed yet. But this is actual residential use where
22 the red polygons are.

23 MEMBER HAENICHEN: So it has nothing to do with
24 ownership of the land?

25 MS. DARLING: No, not yet. It doesn't mean --

1 because there's apartment complexes, so that doesn't mean
2 that the people living there own the apartment complex.
3 There's people living there, though.

4 Now you can proceed.

5 So this just shows the difference in surface
6 management, which is who's managing the land versus who
7 actually owns the land.

8 And the point of this one is just to show
9 that -- on the left, you'll see all this pink in our
10 study area where the base is. So that's DOD-managed
11 land, but it's actually -- when you look at the table and
12 this color green, it's actually land owned by the City of
13 Tucson.

14 So Mr. Beck had talked about this yesterday,
15 that all along Kolb Road and where AMARG is, that's
16 actually owned by the City of Tucson and DM leases the
17 land. So everywhere else, the surface management and
18 land ownership pretty much match up.

19 And then this table will show you the
20 percentages of City of Tucson, Pima County -- and these
21 are owned land. This is not road right-of-way. So this
22 is City of Tucson-owned parcels, Pima County-owned
23 parcels, state land, Department of Defense, and private
24 for each of the three alternatives.

25 Q. BY MS. DECORSE: And, Ms. Darling, to clarify,

1 that table on the right screen, land ownership at No. 30
2 is the updated table TEP Exhibit 17 that was mentioned
3 yesterday as well?

4 A. (BY MS. DARLING) That's correct.

5 Q. And so that replaces the table in your direct
6 testimony as well as in the actual application?

7 A. (BY MS. DARLING) That is correct. The
8 percentages had been calculated incorrectly.

9 Q. MS. DECORSE: And, for the record, that's page
10 11 of the application, Table 1, and page 13 in your
11 direct testimony, TEP-4?

12 A. (BY MS. DARLING) Right.

13 The slide on the left shows the planned and
14 proposed land uses in the project area. The gray shaded
15 areas are planned area developments, so they've been
16 approved by the City.

17 The one where the Irvington Substation is here,
18 that's our Irvington Campus. We actually obtained a
19 planned area development a couple years ago for the whole
20 campus.

21 And then these are kind of outside -- there's
22 one that's a residential and then kind of a mixed use.

23 The yellow is the Port of Tucson.

24 And then the other applicable one is up here
25 where our existing East Loop Substation is. That's the

1 Gateway Center.

2 This area south of the line is the landfill
3 that Mr. Beck mentioned. It is part of the planned area
4 development. Whether they're ever going to be able to
5 develop it is questionable.

6 And then there's also some road improvement
7 projects.

8 So ADOT intends to improve SR-210 or otherwise
9 known as Aviation Parkway, which is rebuilding it along
10 the 8/Alvernon Way alignment.

11 And then I-10, they're actually going to
12 continue that all the way through to Wentworth.

13 And then this black here is that Valencia
14 interchange that we saw today around the Amazon area.

15 And they also plan to improve Kolb Road all the
16 way to Escalante as a six-lane road. So that road will
17 be widened. And that was taken into account. In the
18 Google Flythrough, I think you saw where we kind of
19 jiggy-jogged when we came out of that scenic area back
20 into -- in and out of the newly acquired road
21 right-of-way there. And we're also up on the base's
22 property or within the base itself in that section
23 because of the future road widening. And because it's
24 also a depressed, kind of a bowl, Kolb Road is there.

25 Q. So what analysis did TEP conduct to assess the

1 scenic areas and visual impacts of the project?

2 A. (BY MS. DARLING) So there was a desktop
3 analysis where we used Google Earth to zoom in and look
4 at different areas as well as field visits. And then we
5 had a visual resource specialist who went out and took
6 existing photographs of the project area and then
7 overlaid the 3D design of the transmission line onto
8 those photos at scale. And then the assessment of that,
9 which we've already discussed, was folded into the
10 alternatives analysis.

11 And our mitigation is pretty much using the
12 self-weathering steel poles, as we've talked about
13 before, and the nonreflective conductors to minimize the
14 visual impact of the pole itself. We feel that the steel
15 poles do blend in with the landscape and the environment
16 better than the galvanized or painted poles.

17 And the -- I do have -- this is the KOP map
18 that shows all the locations that we took the photographs
19 at. There were 14 of them. 7, 13, and 14, were along
20 alternatives that didn't come into the application, so
21 they were either along C2 or B1.

22 And you've seen all of the KOPs when we did the
23 Google Flythrough. Do you want me to go through them
24 again or -- I mean, they're basically the same that we've
25 already seen, so -- and they're in the application as G5.

1 CHMN. CHENAL: I don't think so, Ms. Darling.

2 MS. DARLING: Okay. Great.

3 Q. BY MS. DECORSE: Moving along, then, were there
4 any historic or archeological sites identified as being
5 affected by this project?

6 A. (BY MS. DARLING) Yes. There were two known
7 cultural sites in the study area.

8 Can you put that map up on the right. Oh,
9 you're looking for it. Okay. Sorry.

10 I'm just going to hang on for one second so we
11 get the map up on the right.

12 There we go.

13 So there were two known cultural sites
14 identified. The one on the left is an existing in-use
15 gas line, which was determined eligible a long time ago.
16 However, since then, the State of Arizona has actually
17 determined that any in-use historic site would no longer
18 be considered an archeological site. Regardless, it's
19 narrow enough that we can span it, obviously, so it's not
20 like we're going to impact it. But it's interesting that
21 it was initially a site, but it's no longer considered a
22 site.

23 CHMN. CHENAL: So it's a gas line that's so old
24 that it's considered historic?

25 MS. DARLING: Yes. But it's in use and active.

1 And because of its age, it was made an eligible site
2 because it was historic. But then they were like, This
3 is silly.

4 And the other site is a prehistoric artifacts
5 scatter that has -- its eligibility has not been
6 determined. It was where we do the jiggy-jog around the
7 Tucson Meadows neighborhood and on Research Loop where we
8 turn back to the existing alignment.

9 Here's the jiggy-jog coming around. That's our
10 existing alignment. And then this is Research Loop, and
11 then this is the neighborhood. This is where we come
12 straight through right now. So this has not been
13 determined eligible. It's a developed parcel. As you
14 can see, it's got asphalt and buildings.

15 So our intent is to span it, so essentially to
16 put this turning structure here and another turning
17 structure here and then another turning structure -- or
18 another tangent structure there and avoid it altogether.

19 If, for some reason, we can't do that when we
20 get to the final design, we'd have to go to SHPO, the
21 State Historical Preservation Office, and ask them if the
22 site is eligible. And if it is eligible, then we'd have
23 to do whatever mitigation they tell us to, which could
24 include testing or data recovery. It's unlikely that
25 it's eligible given that it's paved over and built over.

1 But I can't speculate, so I don't know for sure.

2 CHMN. CHENAL: And what, again, Ms. Darling is
3 the cultural significance of that parcel?

4 MS. DARLING: It was recorded very early on
5 after the law came into effect. It's got a very early
6 number as a prehistoric archeological site. And I would
7 have to do more research to understand how it is that
8 they developed the site and built over it without
9 determining its eligibility. But as far as I know and we
10 were able to determine, it's not been determined whether
11 it's eligible or not yet.

12 So TEP's standard practice is once we do have
13 an approved route and we get into the design and we know
14 exactly where our poles are going to be, we do a
15 Class III survey for cultural resources of any areas that
16 haven't been surveyed in the last ten years. And then
17 based on that Class III survey and the determinations
18 made and the recommendations made by the archaeologists,
19 we proceed from there, which would be -- our first
20 course, if we find anything, is to avoid it. If we can't
21 avoid it, then we coordinate with the SHPO's office and
22 basically follow whatever mitigation we're required to
23 follow.

24 Right. You'll note that this cultural map on
25 the right has been redacted from our PowerPoint

1 presentation, TEP-5, and that's because we're not allowed
2 to publish the locations of archeological sites, but I
3 can show it to you shortly on the screen.

4 Q. BY MS. DECORSE: And, Ms. Darling, in addition
5 to cultural sites, does the company look at recreational
6 sites or -- I don't know how you technically referred to
7 it -- facilities?

8 A. (BY MS. DARLING) We looked at all the
9 locations of parks and trails within the study area. And
10 we are adjacent -- running adjacent to a park here along
11 common area 1. This is the Julian Wash, which sort of
12 runs south of -- it's the Julian Wash Trail -- runs south
13 of the common route. And this part here is just
14 adjacent. It's actually on the opposite side of the
15 railroad tracks, so we have no direct impacts there.

16 And then, you know, as we've discussed, the C1,
17 the Pantano Wash does have -- the river park trail runs
18 along it. So there's short-term impacts during
19 construction. There would probably be some closures to
20 the trail for safety and things like that, but they
21 wouldn't be long term or permanent. Beyond that, it's a
22 more indirect impact such as we had talked about, you
23 know, the visual and things like that.

24 So that's the recreation section.

25 And then Eric is going to talk about noise.

1 Q. Okay. Are there any special permits that you
2 need to get for -- was it C1 that you -- I think you
3 mentioned earlier?

4 A. (BY MS. DARLING) Yes. It's managed by Pima
5 County Flood Control District, and we do have to get a
6 use permit from them. And they're fairly easy to follow
7 the process of getting one.

8 I would mention that there is a letter -- and I
9 get into it more in the stakeholder -- but Pima County
10 Flood Control District did submit a letter. They support
11 our preferred alternative. And they would prefer we not
12 build this one, but they do understand that they can't
13 really say no, because we can get a permit.

14 Q. Okay.

15 A. (BY MS. DARLING) Yeah.

16 MS. DECORSE: I'm going to hand it over to
17 Mr. Derstine now.

18 MR. DERSTINE: Timingwise, Mr. Chairman, we're
19 at 5:10. We're going to switch witnesses and move topics
20 into noise but more deeply into EMF/FAA issues. Do you
21 want us to finish up, or you want us to move till
22 tomorrow morning?

23 CHMN. CHENAL: Well, I think we go till
24 tomorrow.

25 How much time do you think you'll need to

1 finish tomorrow? Well, you'll finish the panel, and
2 there may be some follow-up questions. You might want to
3 get into a couple more matters that came up today.

4 MR. DERSTINE: I think we'd be in a position to
5 finish all our evidentiary presentation in the morning
6 and be in a position to close maybe after the lunch break
7 and then move to conditions and consideration of whether
8 the Committee wants to grant a CEC.

9 CHMN. CHENAL: Let me look at the Committee and
10 see if that schedule does sound reasonable.

11 MEMBER HAMWAY: Are you comfortable doing the
12 CEC in the afternoon?

13 CHMN. CHENAL: Yeah. I normally don't like to
14 start too late in the afternoon, but I think if we start
15 right after lunch, we'll -- with a short closing
16 statement as we get into it, I don't think this is going
17 to be particularly complicated once we get into
18 deliberations. So, yes, I am, and I don't know that it's
19 going to take the entire morning.

20 MR. DERSTINE: No. And I'm probably adding
21 additional time for the morning. I think the slides that
22 we have and how much we have left in terms of our direct
23 presentation I don't think is more than two hours.

24 And so we may be in a position to close even
25 before the lunch break. It's just a function of how many

1 additional questions we have and if there's any redirect
2 and things that we need to clean up and make sure you
3 have all the information you need to make an informed
4 decision.

5 CHMN. CHENAL: Is everyone comfortable on the
6 Committee with breaking now and then resuming at 9, and
7 we'll -- I know sometimes we're kind of lax with time,
8 but how about tomorrow we keep a little more strictly to
9 the times, and we can make sure we have plenty of time to
10 do the deliberations.

11 So if the Committee is good with that and the
12 applicant is good with that, I think we can break for the
13 evening.

14 Is there anything we should discuss before we
15 break? Procedural matters?

16 MR. DERSTINE: Ms. DeCorse does not sleep well
17 when I fail to move the admission of the exhibits, so
18 maybe I can move the exhibits that we've marked and that
19 we've discussed. And then we'll just have what's
20 remaining tomorrow to move into evidence.

21 So I've got TEP Exhibit 1 is the application.

22 TEP-2 is Mr. Beck's prefiled direct testimony.

23 TEP-3 is Mr. Raatz's prefiled direct testimony.

24 TEP-4 is Ms. Darling's prefiled direct

25 testimony.

1 TEP-5 is our hearing presentation that we've
2 been following using on the left screen.

3 In addition, Mr. Raatz spoke to TEP-12, TEP-13,
4 and TEP-14, which were changes, corrections to the
5 application.

6 TEP-15 was the letter that Mr. Beck referred to
7 in his discussion of the switchyards versus substation
8 issue.

9 And TEP-16 was the PowerPoint presentation that
10 Mr. Beck showed on the right screen relating to the
11 discussions and the negotiations with AMARG to get them
12 on board and support the project.

13 So I would move the admission of those
14 exhibits, TEP Exhibits 1, 2, 3, 4, 5, 6, 12, 13, 14, 15,
15 and 16.

16 CHMN. CHENAL: And what was 6 again,
17 Mr. Derstine?

18 MR. DERSTINE: Oh, and I need to include 6.
19 That's the route tour schedule and map. Thank you.

20 CHMN. CHENAL: All right. So TEP Exhibits 1,
21 2, 3, 4, 5, 6, 12, 13, 14, 15, 16 have been moved into
22 evidence.

23 Any objection?

24 (No response.)

25 CHMN. CHENAL: Hearing none, those exhibits are

1 admitted into evidence and into the record.

2 So --

3 MR. DERSTINE: Thank you.

4 CHMN. CHENAL: All right. So we'll start at
5 9 a.m. tomorrow. There are cookies, yes.

6 MS. DARLING: Please take the cookies with you.

7 CHMN. CHENAL: And just a reminder, when we
8 begin the deliberations -- and my assistant has already
9 emailed the Word version -- we'll have TEP for
10 identification 21 on the left side, and then 22 will be
11 the working document that we will work through and make
12 additions, changes, what have you. And at the end of
13 which, we'll vote and, if it's adopted, that will become
14 the CEC.

15 So if there's nothing else, let's adjourn for
16 the evening, and we'll see everyone tomorrow at 9 a.m.

17 Thank you.

18 (The hearing recessed at 5:17 p.m.)

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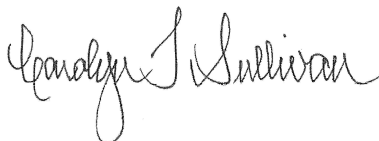
25

1 STATE OF ARIZONA)
2 COUNTY OF MARICOPA)

3 BE IT KNOWN that the foregoing proceedings were
4 taken before me; that the foregoing pages are a full,
5 true, and accurate record of the proceedings, all done to
6 the best of my skill and ability; that the proceedings
7 were taken down by me in shorthand and thereafter reduced
8 to print under my direction.

9 I CERTIFY that I am in no way related to any of
10 the parties hereto nor am I in any way interested in the
11 outcome hereof.

12 I CERTIFY that I have complied with the ethical
13 obligations set forth in ACJA 7-206(F)(3) and ACJA
14 7-206(J)(1)(g)(1) and (2). Dated at Phoenix, Arizona,
15 this 2nd day of March, 2020.

16
17 

18 _____
19 CAROLYN T. SULLIVAN, RPR
20 Arizona Certified Reporter
21 No. 50528

22 I CERTIFY that COASH & COASH, INC., has complied
23 with the ethical obligations set forth in ACJA
24 7-206(J)(1)(g)(1) through (6).

25
26 

27 _____
28 COASH & COASH, INC.
29 Arizona Registered Firm
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