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BEFORE THE ARIZONA POWER PLANT
AND TRANSMISSION LINE SITING COMMITTEE

In the matter of the Joint Application) DOCKET NO.
of Nogales Transmission, L.L.C. and) L-00000F-17-
UNS Electric, Inc. ("UNSE"), in) 0246-00176
conformance with the requirements of)
Arizona Revised Statutes §40.360, et) L-00000CCC-17-
seq., for Certificates of Environmental) 0246-00176
Compatibility authorizing construction)
of the Nogales Interconnection Project)
and the UNSE Nogales Tap to Kantor) Case No. 176
Upgrade Project, including an)
approximately 27.5-mile upgrade of)
UNSE's existing 138-kV transmission)
line from a point near the existing)
Western Area Power Administration)
("WAPA") Nogales Tap in Pima County)
and the existing UNSE Kantor Substation))
in Santa Cruz County, a new)
approximately three-mile 138-kV double)
circuit transmission line in Santa Cruz))
County from a point near the existing)
UNSE Valencia Substation to the)
proposed Gateway Substation and)
associated facilities, and a new)
approximately two-mile 230-kV)
transmission line and associated)
facilities in Santa Cruz County to)
interconnect the proposed Gateway)
Substation to the Mexican National)
Electric System.) VOLUME III
) PAGES 397 - 567

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1 INDEX TO PROCEEDINGS

2 ITEM PAGE

3 TOUR

4 STOP 1 402

STOP 2 405

5 STOP 3 409

STOP 4 411

6

7 PUBLIC COMMENT

8 Daytime Session 418

Evening Session 561

9

10

11 INDEX TO EXAMINATIONS

12 WITNESSES PAGE

13 DAVID CERASALE, MICHELLE BISSONNETTE, and RENEE
14 DARLING

15 Direct Examination by Ms. Morrissey Continued 421

16 NONSO CHIDEBELL-EMORDI and ROBERT GRAY

17 Direct Examination by Mr. Hains 471

Direct Examination by Ms. Davis 491

18 Further Direct Examination by Mr. Hains 515

19

20 EDMOND BECK and MATT VIRANT - RECALLED

21 Direct Examination by Mr. Guy 522

22

23

24

25

1 INDEX TO EXHIBITS

2	NO.	DESCRIPTION	IDENTIFIED	ADMITTED
3	UNS-13	Direct Testimony of Michelle Bissonnette	422	423
4	UNS-14	PowerPoint Presentation	359	423
5	UNS-14.1	Errata to Hearing	423	423
6		Presentation of Michelle Bissonnette		
7	ACC-1	Direct Testimony of	502	502
8		Nonso Chidebell-Emordi		
9	ACC-2	Direct Testimony of	502	502
10		Robert Gray		
11	SLD-1	Direct Written Testimony of State Land Representative	--	551
12	SLD-1-A	Map	--	551
13	SLD-1-B	Partial Denial of Application	--	551
14	SLD-2	Direct Written Testimony of Wesley Mehl	547	551

15

16

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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 Desert Diamond Casino, 7350 South
5 Nogales Highway, Tucson, Arizona, commencing at 9:11
6 a.m. on the 7th of September, 2017.

7

BEFORE: THOMAS K. CHENAL, Chairman

8

LAURIE WOODALL, Arizona Corporation Commission
LEONARD DRAGO, Department of Environmental
Quality

10 JOHN RIGGINS, Arizona Department of Water
Resources

11 JIM PALMER, Agriculture, Appointed Member

MARY HAMWAY, Cities/Towns, Appointed Member

12 JACK HAENICHEN, Public Member

PATRICIA NOLAND, Public Member

13 RUSSELL JONES, Public Member

14

APPEARANCES:

15

For the Applicant Nogales Transmission, L.L.C.:

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25

1 (Present for the tour: Applicants, Chairman
2 Chenal, Members Haenichen, Drago, Riggins, Hamway, and
3 Palmer)

4
5 CHMN. CHENAL: All right. Good morning,
6 everyone. Now is the time set for the start of the
7 tour, Thursday morning. So we will proceed on the bus
8 and take the tour as outlined in the materials that have
9 been filed in the Docket Control as exhibit -- I forget
10 the number.

11 MR. BECK: 2.

12 CHMN. CHENAL: 2. And so we will proceed.

13 (TIME NOTED: 9:11 a.m.)

14 (The tour proceeded to Stop 1.)

15

16 STOP 1

17 (TIME NOTED: 9:41 a.m.)

18 CHMN. CHENAL: Let's go on the record, Mr. Beck,
19 and you can tell us where we are and what we are looking
20 at.

21 MR. BECK: All right. Just to the north of us
22 here, this substation is what is called the Nogales Tap.
23 It is on a Western Area Power line, which is the wooden
24 line crossing this way. Originally that was a starting
25 point for the circuit that fed Nogales. The previous

1 project we disconnected from there and ran it over to
2 Vail, which there has been some testimony about.

3 One of the things you probably, you may have
4 noticed, the alignment originally was all on the east
5 side of Wilmot and we dropped right into Nogales Tap.
6 If you look here, we have got, I think it is, three
7 structures on the other side of Wilmot, because this is
8 BLM land and, when we were doing the project, it would
9 have been a five-year process for us to get a permit.
10 It was easier for us to go across and put the poles on
11 the other side. So that's what we did.

12 So from this point going south is the project,
13 the Nogales Tap to Kantor upgrade project. We don't do
14 anything with that turning pole. That is good from
15 there to the north. But from there to the south is what
16 needs to be rebuilt.

17 And so the one option is to go on the west side
18 of Wilmot, which was our Alternative 1. The existing
19 alignment is as it is, you can see. And then on this
20 portion of the project we would be with Alternative 2 on
21 the east side of these structures. It would be 25 feet
22 over.

23 MS. ALSTER: So the question is you would be
24 adding another set of poles if --

25 MR. BECK: We would build a new circuit and

1 these would come down. They get taken away.

2 So we will go to -- the next stop I believe is
3 Andrada Road where we cross over. That's where we would
4 cross from the east side of this line over to the west
5 side to fit along the right-of-way. This is the portion
6 of Wilmot that was rebuilt and it has got new pavement,
7 so...

8 MEMBER HAMWAY: I have a question.

9 MS. DARLING: And they extend the right-of-way
10 to 150 feet wide in this area, which brings it up closer
11 to our existing line.

12 MR. BECK: Wilmot Road right-of-way.

13 MEMBER HAENICHEN: Ed, are the new poles, too,
14 taller ones?

15 MR. BECK: Yes, sir, just like these.

16 MEMBER HAENICHEN: Can you use the same
17 underground structure to hold them or do you have to
18 strengthen it?

19 MR. BECK: We will put new ones in because, to
20 take this one out and rebuild it, we would have to take
21 the circuit out of service.

22 MEMBER HAENICHEN: Okay. I got you.

23 MR. BECK: Yeah.

24 MEMBER HAMWAY: I guess my question was earlier,
25 I asked if you were going to decommission any

1 structures. So are you planning on decommissioning
2 these? Right? Or you are just -- is that the wrong
3 term?

4 MR. BECK: Yeah, that's a correct term. And if
5 I wasn't clear, yes, we would be removing these once the
6 new line gets built.

7 MEMBER HAMWAY: I didn't get that yesterday.

8 MS. ALSTER: So the new poles would look like
9 that?

10 MR. BECK: Look like the poles going to the
11 north.

12 MS. ALSTER: Okay.

13 MR. BECK: They are not all going to look
14 exactly like this. It is a turning structure because --

15 MS. ALSTER: Right, right, right.

16 MR. BECK: This is a heavier structure. The
17 tangent structures are what they will look like.

18 I think that's it.

19 CHMN. CHENAL: Thank you very much.

20 (TIME NOTED: 9:45 a.m.)

21 (The tour proceeded to the Stop 2.)

22

23 STOP 2

24 (TIME NOTED: 9:52 a.m.)

25 CHMN. CHENAL: Let's go back on the record for

1 the second stop.

2 MR. BECK: This is our Stop 2, Andrada Road
3 right here. This is the point where we would cross over
4 from the east side of our existing alignment to the west
5 side if we use Alternative 2. And then we would
6 continue down to the south, utilizing the west side of
7 our existing just to the west of our existing circuit.

8 CHMN. CHENAL: But Mr. Beck, it is still east of
9 the road.

10 MR. BECK: Correct, yes. For Alternative 2,
11 assuming going with Alternative 2, we would be east of
12 the road. But we would jump from the east side of our
13 existing circuit to the west side to stay away from the
14 houses that will be coming up on our left.

15 CHMN. CHENAL: Oh.

16 MR. BECK: And then, again, the west, the
17 alignment to the west of Wilmot, we would have to be on
18 the other side of this circuit here. So this is the
19 area that State Land expects to make a lot of money on.
20 So...

21 CHMN. CHENAL: Is this -- help me understand.
22 The alternative that you wanted, that is not going to be
23 an option apparently, is this where the option you
24 wanted, where the line would transverse from the east
25 side of Wilmot to the west side of Wilmot at this point?

1 MR. BECK: No.

2 CHMN. CHENAL: Okay. Would you explain that.

3 MR. BECK: Yes. If we had gone with

4 Alternative 1 and continued with that as our preferred,

5 from the point where we stopped previously and we were

6 going to cross over Wilmot, there would be no crossing.

7 We would continue in a straight line to the south.

8 That's one of the benefits of that alignment, there is

9 no turning structures. And we would continue straight

10 down, continue down the west side of Wilmot all the way

11 to where we join up with the existing line on the

12 diagonal. Because, if you recall from our diagrams, the

13 line heads south, existing line, and then it turns to

14 almost at a 45 degree angle going across the Santa Rita

15 Experimental Range.

16 CHMN. CHENAL: How far approximately from here

17 is that point, approximately?

18 MR. BECK: Is it four miles?

19 MS. DARLING: Nine and a half -- from here or

20 the beginning?

21 MR. BECK: From here.

22 CHMN. CHENAL: From here.

23 MS. DARLING: From here, five miles.

24 CHMN. CHENAL: Roughly five miles.

25 MR. BECK: Because there is nine and a half

1 miles.

2 CHMN. CHENAL: Your alternative you had hoped
3 for would have gone from your first substation.

4 MR. BECK: Right.

5 CHMN. CHENAL: You would have continued on the
6 west side of Wilmot all the way down, down to where the
7 diagonal is.

8 MR. BECK: Right. It would have just
9 intersected the diagonal and then stayed on the west
10 side of the existing alignment.

11 MS. ALTSER: Again, why couldn't you do that?
12 I -- was that because of the --

13 MR. BECK: Because State Land will not sell us
14 the right-of-way.

15 MS. ALTSER: Okay, got you.

16 MEMBER HAMWAY: So would these lines have still
17 been decommissioned had you been on this side?

18 MR. BECK: Absolutely. We would have totally
19 removed the alignment.

20 MEMBER HAMWAY: And who owns this structure?

21 MR. BECK: I believe this is TRICO, one of their
22 distribution lines. They have the service territory
23 down in this area.

24 MEMBER HAMWAY: Now, the planned community of
25 Verano, was that our first stop?

1 MS. DARLING: It was parallel and all the way up
2 to the prisons on the west side of Wilmot.

3 MEMBER HAMWAY: Okay.

4 MS. DARLING: And then Wilmot Park neighborhood,
5 the planned development is down here on the east side
6 before you get to all the houses that are already
7 developed.

8 CHMN. CHENAL: All right. Any more questions?
9 (No response.)

10 CHMN. CHENAL: All right. Thanks.

11 MR. BECK: Okay.

12 (TIME NOTED: 9:56 a.m.)

13 (The tour proceeded to Stop 3.)

14

15 STOP 3.

16 (TIME NOTED: 10:01 a.m.)

17 CHMN. CHENAL: Let's get on the record.

18 MR. BECK: So we are at Stop 3, which is just
19 south of Sahuarita Road. This is Sahuarita Road right
20 here. From this point south, the dirt road gets a lot
21 rougher so we didn't intend to go any further on this
22 particular piece.

23 But, again, we have got Alternative 1 would have
24 been on that side of Wilmot. Alternative 2 here would
25 be on the west side of our existing line.

1 CHMN. CHENAL: But still east of Wilmot.

2 MR. BECK: But east of Wilmot. And then the
3 existing right-of-way is option 3, so...

4 CHMN. CHENAL: Then how far down before that
5 diagonal you were talking about? Just a few miles?

6 MR. BECK: Yes, approximately a couple miles.

7 Yeah, so we get to a point we diagonal across
8 what is called the Santa Rita Experiment Range, a lot of
9 historical picture -- for 100 years they have taken
10 pictures of the same position, and they have got
11 photographs over that 100 years. So they can see any
12 changes in the flora, fauna, and all that kind of stuff.
13 So as long as we stay along our existing line, they are
14 okay with that line being rebuilt there, as long as we
15 don't go somewhere else and disturb a new picture.

16 MEMBER HAENICHEN: Who controls that range?

17 MR. BECK: University of Arizona. It is State
18 Land but University has control over it.

19 MEMBER HAENICHEN: Is the public allowed to
20 meander around through it?

21 MR. BECK: I believe so.

22 MS. DARLING: Most of the gates are locked, so
23 no.

24 MR. BECK: I guess not. Gates are all locked,
25 so... Used to be you could get on there and wander

1 around. But they are pretty protective of it.

2 So any questions at this point?

3 (No response.)

4 MR. BECK: We have got one more stop, which will
5 be down near the Kantor sub, so... And then if there is
6 anything else you want to see, we can certainly do it.

7 CHMN. CHENAL: Okay. Thank you.

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

9 (The tour proceeded to Stop 4.)

10

11 STOP 4.

12 (TIME NOTED: 10:39 a.m.)

13 MR. BECK: So what we are looking at here is
14 Kantor substation to the south. We are standing, at
15 least the bus is, more or less under the 46kV line. Our
16 138 is next to that. And in this stretch we would be on
17 the east side of the existing line coming into Kantor.

18 So a little bit north of here is Mt. Hopkins
19 Road. And that's where we cross from west over to the
20 east because of the 46 joining in. The 46 comes down
21 along from the west along Mt. Hopkins Road and then
22 turns down to Kantor.

23 And this is the emergency tie to TEP. I
24 mentioned in testimony that that's the 14 megawatts of
25 capabilities we have on that 46 line to help supplement

1 what we send over to the 138. So that 46 ties into
2 Kantor and can feed some of the distribution load that's
3 at Kantor substation.

4 CHMN. CHENAL: That's Nogales? The distribution
5 load for Kantor is predominantly Nogales?

6 MR. BECK: It is UNS Electric's within Santa
7 Cruz County.

8 CHMN. CHENAL: Santa Cruz County.

9 MEMBER HAENICHEN: You might point out these are
10 the Corten, right? These towers, they rust to a certain
11 point and stop.

12 MR. BECK: Correct, these are the Corten, or
13 weathering steel. They rust to a point where they get a
14 patina on them and then basically seal themselves and
15 don't rust anymore.

16 MEMBER HAENICHEN: Right.

17 CHMN. CHENAL: So again, Mr. Beck, the 138 line,
18 when the new line is built, these will be
19 decommissioned, correct?

20 MR. BECK: Correct. These will be taken out,
21 yes.

22 MS. ALSTER: Which ones will they be replaced
23 with? What will they look like? Similar to those?

24 MR. BECK: Somewhat similar, but they will be
25 exactly like the ones we saw at the first stop.

1 MS. ALSTER: Got it. The Wilmot.

2 MR. BECK: These are the older, they are a
3 little bit lighter structure. Just looking at them you
4 probably don't realize that's what they are. They won't
5 support the load of the new conductor. And you will
6 see, these were put in originally by Citizens Utilities,
7 they put the ladder rungs on. You will see as you get
8 part way up the pole there are rungs on there. We don't
9 put those on. That was relative to the Border Control
10 issue. We don't put ladder rungs on, so...

11 MEMBER HAENICHEN: How do they climb them then?

12 MR. BECK: We use bucket trucks.

13 MEMBER HAENICHEN: Use just trucks, big boom.

14 MEMBER HAMWAY: Cherry pickers.

15 MR. BECK: Cranes, yes. Anyone is welcome to go
16 climbing up these to see if they can start up of pole.
17 But I think your first touch you would let go pretty
18 quickly. Pretty warm right now.

19 Any questions?

20 As you can see, this road is an example of some
21 of the maintenance we will have to do. The road is
22 washed out halfway. We had a pretty heavy early monsoon
23 storm season, or heavy rains during our early monsoons.
24 So we did have a lot of washouts on our roads.
25 Typically we won't go into a lot of maintenance until we

1 actually need to access structures.

2 CHMN. CHENAL: How far is Valencia substation
3 from Kantor?

4 MR. BECK: Approximately 30 miles. So this is
5 roughly the halfway point between our Vail substation
6 and the Valencia substation.

7 CHMN. CHENAL: So your system goes directly from
8 Vail to Valencia?

9 MR. BECK: Well, it goes from Vail to three
10 intermediate substations and then Valencia. So it ties
11 in at Kantor, ties in at Cañez, ties in at Sonoita, and
12 then hits Valencia.

13 CHMN. CHENAL: Got it.

14 MR. BECK: We didn't really talk much in the
15 case about it. If you look at the system impact, there
16 is a diagram that shows those intermediate subs. They
17 serve a little bit of distribution load at each one of
18 those subs for just the areas right around the
19 substation basically.

20 MEMBER HAENICHEN: Thank you for a very
21 informative tour.

22 MEMBER HAMWAY: Yeah. It has been very helpful.

23 MR. BECK: If there is anything you wanted to
24 see on the way back, I mean we have got a little bit of
25 time, but...

1 MEMBER HAENICHEN: I know one of our Committee
2 members would like to see a restroom.

3 MR. BECK: We thought we would stop at the rest
4 area on the way back. That's a good point.

5 CHMN. CHENAL: Okay.

6 MS. DARLING: Are we going to go back out around
7 or back on this road?

8 MR. BECK: Let's make sure we hit the rest
9 areas.

10 CHMN. CHENAL: We are off. Thanks.

11 (TIME NOTED: 10:44 a.m.)

12 (The tour proceeded to the hearing room.)

13 (A recess ensued at 11:30 a.m. to 1:11 p.m.)

14 CHMN. CHENAL: All right. Good afternoon,
15 everybody. This is the time set for a continuation of
16 the hearing.

17 For the record, we had a very, I thought,
18 informative tour this morning. I thought it was very
19 well done. And Mr. Beck was very succinct in explaining
20 the stops and what we are looking at and kind of tying
21 it together. I think it was very well done. I heard a
22 number of positive comments from the members that
23 attended.

24 Just another point, before the hearing started,
25 a question was asked about how the Committee likes the

1 iPads, having the documents, you know, the exhibits
2 loaded on it. And I think, I think universally the
3 members think that's a great idea, and it is a huge
4 success. So I just wanted to thank you for that and
5 note it for the record. So these iPads were lent to us
6 and the documents were loaded, at least the documents,
7 the exhibits, very user friendly and very helpful. It
8 is much easier than lugging around the massive exhibit
9 books in this case and the application.

10 So are there any housekeeping items we should
11 address? I should ask members if they have any
12 housekeeping items they would like to address.

13 Mr. Drago.

14 MEMBER DRAGO: I have a question. I brought my
15 materials with me, but I notice we have another manual
16 on the table. Does this manual that was provided when I
17 got here have corrections in it? Which one should I
18 refer to?

19 MR. GUY: No. We did not keep track of which
20 Committee member took their notebook or left their
21 notebook, so we packed up from the other facility and
22 just distributed notebooks.

23 MEMBER DRAGO: Thank you.

24 CHMN. CHENAL: So we have an iPad full of the
25 exhibits and we have two full binders, each of us, so we

1 have got plenty of exhibits.

2 Any other housekeeping items from any of the
3 members?

4 Yes, Member Haenichen.

5 MEMBER HAENICHEN: A special meeting tonight is
6 in this room?

7 MR. GUY: It is.

8 MEMBER HAENICHEN: Thank you.

9 CHMN. CHENAL: Mr. Guy, any housekeeping items,
10 or Mr. Jacobs or Mr. Hains?

11 MR. GUY: None other than perhaps clarify which
12 may be obvious. We have talked to Staff, and although
13 we tentatively talked about having to take Staff out of
14 order, since we are just down to one witness, we will go
15 ahead and present Michelle Bissonnette; after she
16 finishes her testimony, go to cross-examination, have
17 that be completed, and then Staff will present their
18 witnesses.

19 CHMN. CHENAL: Okay, that's fine. And if for
20 any reason it takes longer than we anticipate and we
21 need to take the Staff's witness out of order, we will
22 be happy to do that, but looks like we don't have to,
23 so...

24 All right. Mr. Jacobs, anything from you in
25 terms of housekeeping items before we begin?

1 MR. JACOBS: No, not right now, Mr. Chair.

2 CHMN. CHENAL: All right. So Mr. Guy, I guess
3 Madame Bissonnette is the next witness. Oh, excuse me.

4 Do we have anyone who wants to give public
5 comment before we begin the hearing?

6 Yes. Would you please come address -- to the
7 microphone, and give us your name.

8 MS. ALSTER: Hi. My name is Ellen Alster. And
9 I'm a local landscape architect. And I wanted to thank
10 you all for letting me address you.

11 I went on the tour this morning. It was very
12 informative. The bus was even comfortable. And I want
13 to say that I am very supportive of the project, of the
14 whole. And I thought the siting, there was a lot of
15 thought in it. So I am very supportive of the project.

16 I do want to make one suggestion, however. As a
17 landscape architect and someone very concerned with
18 visual quality in the state, I don't think I read the
19 reports that the self-weathering Corten steel is
20 environmentally compatible in the environment of
21 southern Arizona. It is a very nice material. I like
22 Corten steel. But it is kind of contact sensitive. So
23 if it was sunny against red rocks or if it was in a
24 forest, it would be very appropriate. But in the
25 context of southern Arizona, it is usually silhouetted

1 against our bright blue skies. Like along Wilmot Road
2 it is very contrasty with the environment. It doesn't
3 blend in. It stands out and it becomes our biggest
4 landscape element.

5 And the -- as we went through the site this
6 morning, I was more convinced of that, that although
7 Corten steel is a great element, it is very bold and it
8 doesn't, it doesn't match anything in the landscape. We
9 don't have anything dark reddish brown that matches it.
10 And then when we put up light poles and other features,
11 which are galvanized, it is also very much in contrast
12 with that.

13 So I would recommend, especially since this is
14 near Coronado National Forest, near recreation areas, it
15 is views, unlike -- like a gray finish, which has less
16 contrast with the sky and other elements in the sky, I
17 would recommend a material that has less contrast with
18 adjacent landscape. And if you had done like a visual
19 simulation of any kind and did comparisons of the
20 self-weathering steel up against the bright blue sky,
21 and next to it like a galvanized finish, I think you
22 would all see the tremendous contrast with the
23 self-weathering steel.

24 But other than that, I am very supportive of the
25 project. I think it is a great project and the site

1 design is very well done.

2 Thank you.

3 CHMN. CHENAL: Thank you, ma'am. May I ask a
4 question of you. When you said less contrasting
5 material, what material would you propose? I am just --
6 so I can have a discussion.

7 MS. ALSTER: Something in the gray ranges like
8 APS or SRP uses, like galvanized, like a nonreflective.
9 You don't want it real shiny. You want it to be
10 something like a dull gray finish that would have less
11 contrast with the background landscape. Because if you
12 drive up I-19, you can see the Corten steel poles and
13 the great contrast they have. If you drive down Wilmot,
14 you can see the very large poles. I have got pictures I
15 have taken for my own use. And they are very bold and
16 they stand out. And we have 27 miles of these to look
17 at for the next 30 years, however long, you know. I
18 understand that these poles last 30, 40 years. It is a
19 great material, but I think it is a big payoff in terms
20 of the effect to the landscape.

21 CHMN. CHENAL: All right. Thank you.

22 Member Woodall.

23 MEMBER WOODALL: I note that the application
24 has --

25 MEMBER HAMWAY: We can't hear.

1 MEMBER WOODALL: Can you hear me now?

2 There is an Exhibit E to the application in this
3 case that has Exhibit E-1A that has a reference to
4 scenic areas. And I am wondering if someone during the
5 course of their testimony could discuss the scenic
6 evaluation that was done in view of the comments that we
7 have had from the landscape architect.

8 I am sorry. I forgot your name.

9 Thank you.

10 CHMN. CHENAL: Thank you for your comments.

11 Mr. Guy.

12 MR. GUY: Yes, Ms. Morrissey will present
13 Ms. Bissonnette.

14 CHMN. CHENAL: Okay. Ms. Morrissey.

15 MS. MORRISSEY: Thank you, Mr. Chairman.

16

17 DAVID CERASALE, MICHELLE BISSONNETTE, and RENEE DARLING,
18 called as witnesses on behalf of the Applicants, having
19 been previously duly sworn by the Chairman to speak the
20 truth and nothing but the truth, were examined and
21 testified as follows:

22

23 DIRECT EXAMINATION CONTINUED

24 BY MS. MORRISSEY:

25 Q. Ms. Bissonnette, please state your name for the

COASH & COASH, INC.
www.coashandcoash.com

602-258-1440
Phoenix, AZ

1 record.

2 A. (BY MS. BISSONNETTE) My name -- is this on?

3 My name is Michelle Bissonnette.

4 Q. Could you pull the microphone just a little bit
5 closer.

6 A. (BY MS. BISSONNETTE) How is that? My name is
7 Michelle Bissonnette.

8 Q. And Ms. Bissonnette, could you please locate the
9 documents labeled Exhibit UNS-13, UNS-14, and UNS-14.1
10 in front of you.

11 A. (BY MS. BISSONNETTE) Yes.

12 Q. Can you confirm Exhibit UNS-13 is your written
13 direct testimony that was prefiled in this proceeding?

14 A. (BY MS. BISSONNETTE) Yes, it is.

15 Q. And is UNS-14 a copy of your hearing
16 presentation?

17 A. (BY MS. BISSONNETTE) Yes, it is.

18 Q. Were both these documents either prepared by you
19 or under your supervision?

20 A. (BY MS. BISSONNETTE) Yes, they were.

21 Q. Have you reviewed these two documents since they
22 were filed?

23 A. (BY MS. BISSONNETTE) Yes, I have.

24 Q. Have you identified any changes or corrections
25 you would like to make to those documents?

1 A. (BY MS. BISSONNETTE) The marked Exhibit 14.1
2 was prepared and changes were made to it. And the only
3 change I have is that in the slides, Slide 14, the first
4 bullet, the third sub bullet should be added impacted to
5 the end of that line.

6 Q. Thank you.

7 And are the changes that are in Exhibit UNS-14.1
8 already reflected in UNS-13 and UNS-14?

9 A. (BY MS. BISSONNETTE) Yes, they are.

10 Q. So do you have any other changes besides the one
11 that you just noted this morning?

12 A. (BY MS. BISSONNETTE) No other changes. Thank
13 you.

14 Q. And if I were to ask you those same questions
15 again, would your answers be the same?

16 A. (BY MS. BISSONNETTE) Yes, they would.

17 MS. MORRISSEY: Mr. Chairman, we would offer
18 UNS-13, UNS-14, and UNS-14.1.

19 CHMN. CHENAL: All right. Thank you.

20 Any objections?

21 (No response.)

22 CHMN. CHENAL: Hearing none, UNS-13, UNS-14, and
23 UNS-14.1 are admitted.

24 (Exhibits UNS-13, UNS-14, and UNS-14.1 were
25 admitted into evidence.)

1 MS. MORRISSEY: Thank you, Mr. Chairman.

2 BY MS. MORRISSEY:

3 Q. Ms. Bissonnette, we have loaded Exhibit 13 onto
4 the projector for our use. Please tell the Committee
5 about your educational background.

6 A. (BY MS. BISSONNETTE) Yes. My educational
7 background is I have a landscape architecture degree and
8 a foreign studies minor.

9 Q. And could you please describe your professional
10 background for the Committee.

11 A. (BY MS. BISSONNETTE) My professional
12 background, I have consulted in the power and energy
13 field such as environmental impact statements,
14 environmental assessments --

15 (Brief pause.)

16 A. (BY MS. BISSONNETTE) Okay, let's try this
17 again. Sorry.

18 I consult on power and energy, or in the power
19 and energy field.

20 Let me know if this works, and if it doesn't,
21 then I will go to the handheld.

22 I coordinate with our national power team with
23 the environmental staff and work with folks on
24 environmental projects in the power and renewable field,
25 and I manage the preparation of the environmental -- it

1 is hard to read that screen from here.

2 CHMN. CHENAL: Ms. Bissonnette, I think, if you
3 make sure your mouth is a little closer to the
4 microphone. It almost has to be right, you know, just
5 right up close to it.

6 MS. BISSONNETTE: Is this one on? How is that?
7 Okay.

8 And I managed the preparation of environmental
9 studies for the Nogales interconnection project in
10 support of the Presidential Permit. I have 27 years of
11 experience in environmental consulting, and 22 of those
12 years is with renewable and electric utility industry
13 projects.

14 I am previously, prior to my role now, senior
15 project manager and a section manager, and then prior to
16 that I worked for an engineering and environmental
17 consulting company for ten years prior to that.

18 BY MS. MORRISSEY:

19 Q. And Ms. Bissonnette, who are you testifying on
20 behalf of today?

21 A. (BY MS. BISSONNETTE) I am testifying on behalf
22 of the Nogales Transmission, LLC and UNS Electric, Inc.

23 Q. Ms. Bissonnette, could you please give us an
24 outline of the topics your testimony will cover today?

25 A. (BY MS. BISSONNETTE) Yes. The role of the

1 project -- on the role of the project, I was project
2 manager for the environmental assessment, and that was
3 submitted in support of the Presidential Permit
4 application. And I will be talking, giving an overview
5 of the environmental study conducted for the Nogales
6 interconnection project, the Presidential Permit
7 application, the environmental assessment that was
8 prepared for the application by HDR. And HDR also
9 prepared the biological field report and the Class III
10 cultural resource report. I will be also talking about
11 the environmental assessment that was published by DOE.

12 Q. And the environmental assessments that you just
13 referenced, the Presidential Permit application and the
14 DOE, could you explain for the Committee how they relate
15 to the analysis today?

16 A. (BY MS. BISSONNETTE) Yes. These studies were
17 performed to comply with the Presidential Permit
18 application process. And the environmental components
19 of which we will talk about, or I will talk about, the
20 existing environmental conditions, identifying the
21 potential environmental impacts, and then I will discuss
22 the mitigation measures to address these potential
23 impacts, therefore, the studies relevant to the
24 Committee's consideration, the factors regarding the
25 project's environmental compatibility.

1 Q. Ms. Bissonnette, could you please describe what
2 Slide 3 shows the Committee?

3 A. (BY MS. BISSONNETTE) Yes. The slide outlines
4 the impact of the Nogales interconnection project on
5 environmental CEC factors. First of all, I will be
6 going over the biological factors, such as fish,
7 wildlife, plant life; existing environmental conditions;
8 and special status species. And then we will move into
9 the nonbiological factors, land ownership and use,
10 scenic areas, recreation, historic sites and structures,
11 and archeological sites, and noise emissions.

12 Q. Ms. Bissonnette, in your expert opinion, are the
13 alternative routes of the Nogales interconnection
14 project compatible with the environment and ecology of
15 the State of Arizona?

16 A. (BY MS. BISSONNETTE) Yes, based on the factors
17 I just described, each of the routes are environmentally
18 compatible.

19 Q. And what is the basis for your conclusions?

20 A. (BY MS. BISSONNETTE) The review of the routes,
21 the DOE draft EA, the associated draft Class III
22 cultural resource surveys, the Presidential Permit EA
23 and associated biological field report, and the
24 Class III cultural resource survey, and factors
25 considered by the Committee in order to determine

1 whether a CEC should be granted.

2 Q. Now, Ms. Bissonnette, you have outlined some of
3 the environmental analyses. Just to briefly go through
4 the purpose of those for the Committee members, so we
5 can understand the specific topics they outline, could
6 you please describe the purpose of the DOE draft EA?

7 A. (BY MS. BISSONNETTE) Yes. The purpose of the
8 DOE draft was prepared by HDR as Nogales Transmission's
9 environmental consultant. Again, I supervised this
10 study. And the factors that were included in the
11 Presidential Permit EA are included in the Committee's
12 CEC analysis. And those are land use, geology and
13 soils, vegetation, wildlife, water resources, cultural
14 resources, visual quality, noise, radio, television, and
15 cellular telephone communications. And studies are
16 centered on an approximately 250 foot wide area on the
17 route segment variations and the Gateway substation area
18 as well.

19 Q. And moving on to the DOE draft EA, can you
20 please elaborate on the purpose of that environmental
21 assessment?

22 A. (BY MS. BISSONNETTE) Yes. The purpose of the
23 DOE draft EA was to assist the Office of Electricity
24 Delivery and Energy Reliability, Transmission Permitting
25 and Technical Assistance Division in its review of the

1 Presidential Permit application. Now, long name for the
2 office there, but...

3 Q. Is DOE the only federal or state agency that was
4 involved in that process?

5 A. (BY MS. BISSONNETTE) No. There are cooperating
6 agencies. There are three cooperating agencies, and
7 that includes U.S. Forest Service, U.S. Section of the
8 International Boundary and Water Commission, and the ACC
9 Staff.

10 Q. And has the DOE consulted other agencies or
11 Tribes during this process that would adopt the
12 committee analysis?

13 A. (BY MS. BISSONNETTE) Yes, Section 106 of the
14 Historic Preservation Act consultation requested with
15 SHPO and 22 federally recognized Tribes in Arizona and
16 the advisory council -- the Tohono O'odham Nation and
17 SHPO accepted -- and also Section 7, ESA, or Endangered
18 Species Act, working with the U.S. Fish and Wildlife
19 Service, and government-to-government consultation with
20 Tribes. The Tohono O'odham Nation accepted.

21 And it should be noted that there are no Tribal
22 lands that are crossed by the project.

23 Q. Ms. Bissonnette, let's move on to the biological
24 environmental analysis on the next slide. Could you
25 please describe the existing environment in the vicinity

1 of the Nogales interconnection project?

2 A. (BY MS. BISSONNETTE) Yes. The existing
3 conditions fall within the Mexican Highland section of
4 the Basin and Range physiographic province of the
5 Intermontane Plateaus. And the elevation ranges,
6 elevation, okay, the elevation ranges from 3,765 feet
7 near the Valencia substation to 4,239 feet near the U.S.
8 and Mexican border.

9 And the terrain is characterized by extensive
10 patterns of short, dissected ridges and draws formed
11 along longer ridges descending from the nearby
12 mountains. There is approximately 56 percent of the
13 area that consists of developed land, with the remaining
14 44 percent consisting mostly of natural habitat, with
15 some evidence of grazing and development. And as we saw
16 on the tour yesterday, the eastern portion of the
17 project is much more developed than the western portion
18 of the project that is close to the CNF.

19 Q. Ms. Bissonnette, could you please elaborate on
20 the existing conditions as they relate to water
21 resources and aquatic habitat?

22 A. (BY MS. BISSONNETTE) Yes. The existing fish
23 life and aquatic habitat, the project is within the
24 Santa Cruz watershed and Santa Cruz active water
25 management area. And the perennial bodies of water

1 within one mile of the routes include:

2 The Nogales watershed, or the Nogales Wash. And
3 the north-south reaches of the Nogales Wash is
4 classified as intermittent in this area. The Mariposa
5 Wash is dry during much of the year. And again, we did
6 see the Nogales Wash or the Mariposa Wash yesterday on
7 our field trip. And then the Potrero Creek.

8 And also -- go ahead.

9 Q. Please elaborate.

10 A. (BY MS. BISSONNETTE) Okay. And the DOE draft
11 EA indicates that the water used during construction
12 will likely be an approved city source. And if
13 groundwater from the wells -- if groundwater from wells
14 were to be used, the impacts to groundwater quality
15 would be considered minimal. And there are no impacts
16 to aquifers from operations and maintenance of the
17 project, and it will not impair aquifer recharge.

18 Q. So one of the factors you mentioned was impact
19 on fish life in the project area. Could you please
20 describe for the Committee any impacts on fish?

21 A. (BY MS. BISSONNETTE) The DOE draft EA indicates
22 that there is one -- that there are historical or
23 current records of one federally endangered fish species
24 and two state fish species of concern within three miles
25 of the analysis area. However, these species are

1 unlikely to occur because there is no suitable habitat
2 located in the analysis area.

3 Q. Ms. Bissonnette, could you please describe plant
4 life -- oh, I am sorry, wildlife in the vicinity of the
5 project?

6 A. (BY MS. BISSONNETTE) Yes. The existing
7 conditions, there are a variety of mammals, birds,
8 reptiles, and amphibians in the analysis area. Some
9 specific common mammals that are likely to occur would
10 include the white-tailed deer, black-tailed jackrabbit,
11 coyote, big brown bat. And some of the common reptiles
12 would include ornate tree lizard, gopher snake or common
13 kingsnake; and amphibians, Couch's spadefoot.

14 Also in the analysis area, it includes habitats
15 that are used both seasonally and year round for both
16 breeding and migration for a variety of migratory birds,
17 and again, greater abundance of wildlife in the western
18 portion of the project area.

19 Q. Ms. Bissonnette, could you elaborate on plant
20 life in the vicinity of Nogales interconnection project?

21 A. (BY MS. BISSONNETTE) Yes. Approximately
22 56 percent of the land within one mile of the project
23 area or one mile of the project is developed, and
24 44 percent of the land consists of natural vegetative
25 communities. Examples of vegetation may include

1 one-seed juniper or prickly pear. DOE has in their
2 draft EA a list of these species in detail.

3 There is also a diverse community of trees,
4 shrubs, succulents, forbs, and grasses, and a diversity
5 of plant species that are found along the natural
6 washes, and, again, more diversity in the west than in
7 the east. And mostly in the east in the developed area
8 are weeds.

9 Q. So given these existing environmental conditions
10 for plant and wildlife, could you please describe for
11 the Committee the impacts of the Nogales interconnection
12 project on these resources?

13 A. (BY MS. BISSONNETTE) Yes. The impacts would be
14 about 35 to 59 acres of suitable wildlife habitat is
15 expected to be disturbed. And this does not include the
16 already disturbed Gateway substation or the access
17 roads. If you take into consideration the substation,
18 the substation and access roads, they will be
19 approximately 98 to 122 acres of vegetation disturbance.

20 Construction activities will temporarily disturb
21 wildlife and vegetation, and operational activities will
22 also temporarily impact these resources. And the
23 operational impacts are anticipated to be low and short
24 term. And just an example of some of the operational
25 activities may include inspection, repairs, maintenance

1 of roads and right-of-way, vegetation and management
2 activities.

3 Q. So given these impacts, could you please discuss
4 for the Committee members the mitigation measures that
5 the applicants intend to apply?

6 A. (BY MS. BISSONNETTE) Yes. The mitigation
7 measures, this was discussed with the Arizona Game &
8 Fish Department and summarized in Exhibit UNS-11A,
9 sponsored by Renee Darling and also discussed yesterday,
10 and measures in Exhibit UNS-13B, DOE draft EA applicant
11 proposed measures, and includes selective vegetation
12 removal and relocation, development and implementation
13 of an avian protection plan, noxious and invasive
14 species management and control plan, reclamation,
15 revegetation, vegetation, and monitoring plan, access
16 road plan, and additional mitigation measures for
17 special status species.

18 Q. Ms. Bissonnette, you mentioned special status
19 species. Could you please describe the analyses the
20 applicants conducted in order to determine whether those
21 are present?

22 A. (BY MS. BISSONNETTE) Yes. HDR prepared a
23 biological field report for the Presidential Permit
24 application EA. And DOE draft EA also did an analysis
25 mainly focusing on segment 3 of the preferred route and

1 access roads. And both studies consulted with Arizona
2 Game & Fish and the U.S. Fish and Wildlife Service's
3 IPaC trust report and surveys for special status
4 species.

5 And some of the special status species with
6 potential for concern within the project area include
7 the Pima pineapple cactus, the lesser long-nosed bat,
8 the yellow-nosed cotton rat, the Santa Cruz beehive
9 cactus, the supine bean, and the large flowered blue
10 star.

11 Q. Ms. Bissonnette, we have on our second screen a
12 copy of what appears to be a map. Could you please
13 describe that for the Committee members?

14 A. (BY MS. BISSONNETTE) Yes. This map shows the
15 HDR biological survey. And starting in the east, most
16 of this area was surveyed, basically the route segment
17 10 over in the western area. Some of this we had -- we
18 didn't have right of entry for some of these access
19 points. And no -- we surveyed for agave, Pima pineapple
20 cactus, Santa Cruz beehive cactus and supine bean, and
21 there was no Pima pineapple cacti documented.

22 And as part of the Section 7 consultation, the
23 DOE draft EA did additional fieldwork, as I mentioned
24 before, on Alternative Route 3. So approximately
25 70 percent of the 5.1 miles of transmission line

1 right-of-way have been surveyed. And 4.83 miles of the
2 new upgraded access roads were surveyed. And again, no
3 Pima pineapple cacti were documented.

4 Q. So Ms. Bissonnette, you discussed a little bit
5 the results of this biological survey regarding Pima
6 pineapple cacti and some of the other plants. Could you
7 also summarize any additional conclusions and the result
8 of those?

9 A. (BY MS. BISSONNETTE) 70 percent, as I
10 mentioned, of the Alternative Route 3 was surveyed and
11 there was no Pima pineapple in this area. As we get
12 right of entry prior to construction, they will do a
13 good faith effort to survey the remaining portions of
14 this.

15 The initial survey documented 27 agave, and then
16 94 were documented in the DOE EA. Many of the Santa
17 Cruz beehive cacti and one potential supine bean was
18 documented. And there is habitat for yellow-nosed
19 cotton rat and large flowered blue star, and there are
20 numerous other species that were protected by the
21 Arizona native plant law. And again, these will get
22 into more detail in the biological assessment.

23 Q. So given the analyses that have been conducted
24 for special status species, what impacts have the
25 applicants identified and what mitigation measures do

1 they anticipate applying?

2 A. (BY MS. BISSONNETTE) Okay. The preference is
3 to avoid impacting any special status species, but the
4 impacts that may occur if avoidance isn't possible, it
5 would be during clearing and ground disturbance,
6 indirect impacts, increased potential for illegal
7 collection, trampling, crushing from off-highway vehicle
8 use.

9 And it is unlikely to adversely impact the
10 lesser long-nosed bat due to the small number of agave
11 impacted, and unlikely to cause significant habitat loss
12 for the yellow-nosed cotton rat.

13 Q. So as far as the impacts are occurring, is there
14 any route that is particularly preferable, based on
15 these special species impact?

16 A. (BY MS. BISSONNETTE) Yes. The applicants'
17 preferred route 3 has the lowest potential impact from
18 ground disturbance, and it is easier access for
19 construction than the other alternatives.

20 Q. Let's move on to some of the nonbiological
21 factors. Could you please describe the existing land
22 ownership and land use in the vicinity of the project?

23 A. (BY MS. BISSONNETTE) Yes. The land ownership
24 is primarily on private land parcels, some on ADOT and
25 the City of Nogales parcels. The land ownership ranges

1 from 8.6 percent to 12.8 percent for the City of Nogales
2 land, 1.3 or 1.4 percent to 3.4 percent for ADOT, and
3 approximately 84 and a half to 88 and a half for private
4 owners.

5 The project will span SR-189 and I-19, as we
6 looked at yesterday on the field trip. And there will
7 be no poles placed in ADOT right-of-way, and, again, no
8 poles sited in the Roosevelt Easement down by the
9 border.

10 Q. Ms. Bissonnette, we have up on Slide 16 what has
11 been labeled as a zoning map. Could you please describe
12 the land uses in the vicinity of the project using that
13 map?

14 A. (BY MS. BISSONNETTE) Yes. Again, I will start
15 in the eastern area. East of Valencia sub there is
16 multi-family residential, retail services and businesses
17 zoned commercial around the Valencia sub and Grand
18 Avenue area. Right here in the blue is the multi-family
19 residential.

20 And then again, most of the other areas are
21 zoned commercial along SR-189; as you get down more of
22 the middle of the project area, zoned light industrial;
23 and then up by the Gateway substation there is
24 single-family zoning and multi-family residential; and
25 then, as you move down on the CNF border, light

1 industrial.

2 Q. And you mentioned that several of these
3 locations have been passed by on the tour yesterday.
4 Could you describe any of those particular areas that
5 the Committee saw?

6 A. (BY MS. BISSONNETTE) Yes. We looked at the
7 Valencia sub. We looked at around the I-19 and SR-189
8 crossings. We went up to the Gateway substation area.
9 And then we stopped down at the border area as well, and
10 driving down SR-189.

11 Q. Near the border area were there any other
12 additional uses that the Committee members saw?

13 A. (BY MS. BISSONNETTE) Mainly the light
14 industrial area, and also the cattle crossing at the
15 border area.

16 Q. Could you please describe any of the research
17 the applicants conducted on the planned uses of land.

18 A. (BY MS. BISSONNETTE) Yes. The applicants
19 contacted the City of Nogales and looked at the Nogales
20 general plan. Under the City of Nogales zoning code,
21 the utility structures and facilities related to the
22 transmission of power or communications is considered
23 permitted conditional uses, and must be approved by the
24 planning and zoning commission. And the applicants will
25 apply for a conditional use permit for the proposed

1 Gateway sub. And although the project is located within
2 Santa Cruz, the City of Nogales is outside of the area
3 of jurisdiction of the Santa Cruz comprehensive plan.

4 Q. And Ms. Bissonnette, you mentioned that ADOT
5 owned some land in the area. Are the applicants aware
6 of any land use plans by ADOT?

7 A. (BY MS. BISSONNETTE) Yes. ADOT has some plans
8 near the project area, which include State Route 189,
9 international border to Grand Avenue project, to address
10 current and forecasted growth in traffic related to the
11 recent expansion of the Mariposa port of entry and
12 anticipated industrial development along the SR-189
13 corridor.

14 Q. Have the applicants identified if there are any
15 private land use plans in the vicinity? And feel free
16 to indicate on the map if you would like.

17 A. (BY MS. BISSONNETTE) Yes. Again, SR-189 and
18 then private land use plans were identified. An
19 industrial park is planned to occur on previously
20 undeveloped land adjacent to the CNF, and other
21 reasonably foreseeable plans include new industrial
22 warehouses and commercial properties similar to what can
23 currently be found in the area. So during some of the
24 public open houses and meetings and talking with
25 landowners, some of these areas were discussed.

1 Q. Ms. Bissonnette, just to summarize some of your
2 discussion, I see that we have another map on Slide 17.
3 Could you please describe that to the Committee?

4 A. (BY MS. BISSONNETTE) Yes. This is a land cover
5 map. And the darker red areas are really showing the
6 higher density, mainly commercial and industrial within
7 the project area. And City of Nogales is down in here.
8 So again, what we saw around the Valencia sub and as we
9 made our way over to the Gateway sub along SR-189 and
10 then up near the substation area, we saw a lot of
11 industrial and some commercial.

12 Q. So given this analysis of current and future
13 land use plans, what do you conclude regarding the
14 Nogales interconnection project's impacts?

15 A. (BY MS. BISSONNETTE) The project is consistent
16 with the city, county, state, and federal private land
17 uses, land use plans. There is anticipated short-term
18 nuisances, nuisance impacts from dust, noise, traffic
19 congestion during construction. There will be minimal
20 long-term direct and indirect impacts.

21 And the lines located within the existing
22 utility corridors or in commercial areas will be
23 compatible with the current land uses. The Gateway
24 substation is already zoned light industrial, and we
25 don't anticipate operation and maintenance of the

1 project to impact existing residences or businesses.
2 And there will be no -- no structures will need to be
3 demolished or relocated for the project.

4 Q. So given these impacts, could you please discuss
5 briefly any mitigation measures the applicants will use
6 to minimize impacts to this land use?

7 A. (BY MS. BISSONNETTE) Yes. The mitigation for
8 transmission structures that are not -- again, not
9 include ladders for climbing, as Mr. Beck discussed in
10 his testimony yesterday. He also discussed that the
11 transmission line structure from the border north would
12 be approximately 300 feet north of the border.

13 During post-construction restoration, the
14 applicants will remove and dispose of debris and comply
15 with appropriate erosion control measures. And if
16 determined that new or reconstruction activities should
17 be implemented, the applicants will notify property
18 owners and obtain permission and approvals. And when
19 feasible and consistent with landowner preference, all
20 gates to access roads will be locked and have signage
21 indicating authorized uses.

22 Q. Let's move on to scenic areas, which we
23 understand Member Woodall was particularly concerned
24 about. Could you please describe the existing
25 conditions regarding those scenic areas?

1 A. (BY MS. BISSONNETTE) Yes. As Renee Darling
2 testified yesterday, desktop study, including a
3 combination of Google Earth review, GIS data research,
4 and windshield surveys were conducted. And the analysis
5 incorporated the DOE draft EA's visual impact analysis
6 of a five-mile buffer of the centerline of the
7 alternative routes, including a one-mile foreground
8 analysis and prior visual impact research that was done
9 in the Presidential Permit EA.

10 And I would like to go over -- I think this
11 might help to talk about the visuals that we have and
12 the land uses in the project area. So this map shows
13 three sort of main bubbles, again as I have been talking
14 about, the east region or the central region of the
15 project, and then the western portion of the project
16 area.

17 CHMN. CHENAL: Yes, Member Noland.

18 MEMBER NOLAND: Just a quick question. This is
19 the first time I have heard windshield analysis. Does
20 that mean you are driving it, you are not walking it?

21 MS. BISSONNETTE: That's correct. So yeah,
22 windshield analysis we usually use when we are driving
23 by, because we don't have a lot of right of entry to
24 properties. So we are on the road, we identify areas on
25 the map we can get to publicly and can take a look at,

1 you know, get out of the car like we did yesterday at
2 some of those locations and take photos and look at.

3 MEMBER NOLAND: One more thing. Can you slow
4 down just a teeny bit?

5 MS. BISSONNETTE: Okay.

6 MEMBER NOLAND: I am having trouble keeping up
7 with you, and I can only imagine what it is doing to
8 Colette. Thank you.

9 CHMN. CHENAL: Thank you, Member Noland.
10 Member Woodall.

11 MEMBER WOODALL: I may have missed this, but in
12 Exhibit E to the application, there is an analysis of
13 scenic areas relating to the Kantor to Gateway -- excuse
14 me -- upgrade. And the conclusion is expressed, it is
15 on page E-14 of the application:

16 In conclusion, the visible change that would
17 result from project implementation would be minor as the
18 new poles would be similar in height and material to the
19 existing transmission line. Scenic views of the area
20 have already been affected, and no substantial
21 disruption to major views would result from an upgrade
22 of the transmission line within any of the proposed
23 alignments.

24 And that is your conclusion?

25 MS. DARLING: Yes.

1 MEMBER WOODALL: Okay. What I wanted to ask
2 was: Are there going to be -- how much taller than the
3 existing poles will the new poles be? That's question
4 one.

5 MS. DARLING: I am not positive of the height of
6 the existing poles. Ed Beck may know.

7 MEMBER WOODALL: At some point. We don't need
8 to disrupt.

9 And then the other question I would have is:
10 Are they going, because of the spacing between the
11 lines, are there going to be more or less structures in
12 total than what is there now.

13 And Mr. Beck can address that at some point. It
14 is not a burning issue for me. But since we did have
15 public comment indicating that it would be helpful to
16 have the galvanized, and we heard Mr. Beck say there is
17 an expense there and a safety issue, I wanted to get a
18 sense of what is the true before and after going to look
19 like, so...

20 MS. DARLING: Right. I think I know, but I
21 think it would be better if Mr. Beck said for sure.

22 MEMBER WOODALL: That would be great. I am sure
23 there is going to be some cleanup at some point. So
24 thank you very much, ma'am.

25 BY MS. MORRISSEY:

1 Q. So just to continue with your testimony,
2 Ms. Bissonnette --

3 CHMN. CHENAL: Excuse me. Member Hamway has a
4 question.

5 MS. MORRISSEY: I apologize.

6 MEMBER HAMWAY: Yes. Ms. Bissonnette, does HDR
7 or you have an opinion about the color of the poles? Do
8 you ever make recommendations about what is the least
9 visual impact? I mean I know TEP has a standard, and
10 that's Corten, but I am just wondering if you, if your
11 company offers an opinion about that.

12 MS. BISSONNETTE: We have not offered opinions
13 in the past. We have usually relied on what the
14 utilities have suggested.

15 MEMBER HAMWAY: Okay. Thank you.

16 CHMN. CHENAL: Let me just ask a follow-up
17 question, Ms. Bissonnette. Your testimony so far has
18 dealt with the Nogales interconnection project --

19 MS. BISSONNETTE: Correct.

20 CHMN. CHENAL: -- as opposed to the upgrade
21 portion that we toured today, correct?

22 MS. BISSONNETTE: Correct, yes.

23 CHMN. CHENAL: And I believe that the public --
24 the speaker who made the public comment was commenting
25 on the upgrade portion, I don't want to put words in her

1 mouth, but the Wilmot portion, whereas your testimony
2 thus far has been confined to the interconnection
3 project in Nogales, correct?

4 MS. BISSONNETTE: Yes, that's correct.

5 CHMN. CHENAL: All right. Thank you.

6 MEMBER HAMWAY: Then let me ask my question to
7 Ms. Darling. Does -- how does TEP or UNSE determine
8 what type of pole color to use or material to use,
9 galvanized versus Corten?

10 MS. DARLING: Again, I think I know the answer,
11 but I think Ed Beck would be better able to answer that
12 question.

13 CHMN. CHENAL: Please proceed.

14 MS. BISSONNETTE: Okay. Thank you.

15 I would like to keep up the map and then go to
16 the slides that have the photos, because I think that
17 best depicts the visual of the Nogales interconnect.

18 So starting with the first photo here on the
19 left, that's looking northwest across I-19 from the
20 project area. And on the map, it is somewhere right
21 around here looking across I-19.

22 The second photo over here is the Valencia sub,
23 which is the eastern portion of the project. And again,
24 that was our first stop on yesterday's bus tour.

25 And the west, or the third photo here is west of

1 the Valencia sub. And this is probably just past the
2 barricade that we couldn't go into yesterday where we
3 turned around in the Home Depot parking lot. I think
4 this was taken just west of there.

5 Now I will go over to the middle section of the
6 project area. This is the Nogales Wash, which was the
7 second stop. And this is around the segment 5 area. So
8 just some different photos of the wash -- again, dry for
9 most of the time -- and then some of the rolling hills
10 around that area.

11 This set of slides is near the border along the
12 CNF and, again, some of the natural rolling hills and
13 vegetation. And this slide is looking west into the CNF
14 along the western portion of the project.

15 The last couple of photos, again, this was our
16 final stop yesterday morning. And this is at the
17 border. This is the livestock crossing. And when I was
18 out there prior, we were able to see the cattle coming
19 through the door of the border crossing or border fence
20 and down into the -- to the cattle area that we saw
21 yesterday.

22 And then this photo is looking east towards
23 Mariposa Road, again, near the border area, so looking
24 towards Mariposa Road.

25 BY MS. MORRISSEY:

1 Q. So Ms. Bissonnette, given the existing views,
2 what impacts to visual resources do the applicants
3 expect?

4 A. (BY MS. BISSONNETTE) The impacts will vary
5 depending on terrain, vegetative cover, distance the
6 viewer is from the project, and then the viewer
7 sensitivity. There is no officially designated scenic
8 areas that will be affected by the project, and unlikely
9 to affect the background views of the Patagonia and the
10 Tumacacori Mountains.

11 And the people driving or walking into or out of
12 the western border of the CNF would see the transmission
13 line.

14 And again, the western portion of the project
15 would be the most sensitive as far as visuals to the
16 project, and unlikely effect for users of the Pajarita
17 Wilderness area. This area is located ten miles from
18 the alternative routes within the CNF.

19 Q. And it sounds like we covered a little bit of
20 this earlier, but if you would just like to give a few
21 examples of some of the mitigation measures the
22 applicant is willing to apply to reduce impacts to
23 visual resources and scenic areas.

24 A. (BY MS. BISSONNETTE) Yes. Temporary access
25 roads and staging areas will be vegetated following

1 construction, and construction waste will be removed
2 regularly to maintain short-term waste.

3 The transmission lines will parallel the
4 existing right-of-ways to the extent practical. And I
5 believe we discussed yesterday in Mr. Beck's testimony
6 that the preferred route, route 3, has the most
7 paralleling of existing either transmission or roadways
8 of existing lines or roads.

9 And when the right-of-way is located adjacent to
10 the CNF, we will work with the CNF to site the poles and
11 the towers. And structures will have nonreflective
12 finish and, per Mr. Beck's testimony yesterday, utilize
13 self-weathering material to blend in with or complement
14 the surrounding landscape. I think those poles around
15 the border area and this project are a good choice.

16 A. (BY MS. DARLING) I just wanted to add that we
17 met with CNF two times, once with HDR, but once when we
18 were preparing the DOE EA, and their landscape architect
19 was part of that meeting. The line is not on the
20 forest, so they were happy that we were consulting with
21 them at all. But they are aware that the poles are
22 proposed to be self-weathering steel and they were okay
23 with that. They were happy they weren't, you know,
24 reflective and just asked that we work with them on the
25 micro-siting once we get to the engineering stage of the

1 project. I just wanted to add that.

2 CHMN. CHENAL: Thank you.

3 Member Jones.

4 MEMBER JONES: Thank you, Mr. Chairman.

5 My question has to do with the self-weathering
6 poles as presented, that the rust looking color would be
7 the most appropriate to blend with the landscape.

8 My question is: Are there other colors of
9 self-weathering poles that do not require a lot of
10 maintenance; and, two, depending on which time of the
11 year you are looking at the landscape, which one is the
12 most appropriate for the landscape.

13 CHMN. CHENAL: Let me ask, Member Jones. Is
14 your question with reference to the Nogales
15 interconnection portion, which is more in the Nogales
16 proper, or does it refer to the upgrade portion, or
17 both?

18 MEMBER JONES: Mr. Chairman, both.

19 CHMN. CHENAL: Okay. Because there could be
20 different answers, obviously.

21 MS. BISSONNETTE: We don't know. It is not our
22 specialty.

23 MEMBER JONES: Mr. Chairman, do I get a prize
24 for stumping the panel?

25 CHMN. CHENAL: You get a big prize. You get to

1 dance for us later up on the table.

2 MEMBER JONES: That's really not visual.

3 CHMN. CHENAL: Will there be some testimony from
4 one of the applicants? We can get back to address this,
5 the issue of the poles, the coloring and the locations.

6 MS. MORRISSEY: Yes. We will get back to you on
7 that and follow up.

8 CHMN. CHENAL: Thanks very much. It is not
9 often that the panel is stumped.

10 MS. MORRISSEY: We will make sure you get an
11 answer to that question, Member Jones.

12 MS. BISSONNETTE: Yeah, I think with anything
13 visual, it is really sort of in the eye of the beholder,
14 but...

15 CHMN. CHENAL: It is visual, it is costs, it is
16 a lot of different things. Maybe Mr. Beck, who is the
17 more appropriate person to answer that.

18 BY MS. MORRISSEY:

19 Q. So Ms. Bissonnette, to continue with your
20 testimony, you mentioned that recreation is another one
21 of the factors that the Committee analyzes. Could you
22 please describe the existing recreational opportunities
23 near the Nogales interconnection project?

24 A. (BY MS. BISSONNETTE) Yes. There is no portion
25 of the Nogales interconnection project that will be made

1 available to the public for recreational purposes. And
2 the DOE draft EA indicated that the recreation in Santa
3 Cruz County occurs primarily outside of the urbanized
4 portions of the project area in two city parks, the CNF,
5 and the Pajarita Wilderness.

6 Also, the project -- or the de Anza National
7 Historic Trail runs close to the project just kind of
8 north of the Gateway substation area. There are no
9 preserves, designated trails, or other designated
10 recreation sites in the vicinity of the project.

11 Q. And so will the project have any impact on the
12 Coronado National Forest?

13 A. (BY MS. BISSONNETTE) No, other than the visuals
14 for people that are along that western portion.

15 Q. Okay. And for the Pajarita Wilderness?

16 A. (BY MS. BISSONNETTE) No, because that is ten
17 miles inside the CNF.

18 Q. Ms. Bissonnette, could you please describe the
19 cultural resource analyses that were conducted for the
20 project?

21 A. (BY MS. BISSONNETTE) Yes. Based on the
22 available data, no known historic properties would be
23 directly or indirectly affected by the project.

24 And there were desktop studies, records reviews
25 for the Presidential Permit EA and the DOE draft EA,

1 along with the Class III Survey conducted for the
2 project. Similar to the biological field surveys, we
3 surveyed all areas within where we could get right of
4 entry. There were 206 acres of the 276 total acres that
5 were surveyed, which is about 75 percent.

6 Q. And did the applicants rely on any other
7 external survey resources?

8 A. (BY MS. BISSONNETTE) Yes. We relied on ADOT
9 survey information as well.

10 Q. What impacts did these cultural resource surveys
11 identify?

12 A. (BY MS. BISSONNETTE) What we found are the
13 findings from the studies were that there were six
14 reported sites located within a quarter mile of either
15 side of the right-of-way. And two sites are either
16 determined or recommended eligible for the National
17 Register of Historic Places, and those were the New
18 Mexico and Arizona Railroad and the Tucson Nogales
19 Highway. And those are located just to the east of the
20 Valencia substation. And because of the Valencia
21 substation and everything in that area, it was noted
22 that these -- that the project would not alter the
23 setting associated with the railroad or with the
24 highway.

25 Three sites are recommended not eligible for

1 NRHP, and one site is unevaluated. There are no
2 resources known to be important to the American Indian
3 Tribes in the project area. So it is recommended that
4 no further surveys for the project occur.

5 Q. And could you just give a few examples of some
6 of the mitigation measures that the applicants will
7 apply if any of these cultural resources are discovered?

8 A. (BY MS. BISSONNETTE) Yes. The mitigation would
9 be good faith effort to survey, once we get right of
10 entry, prior to construction for the areas that have not
11 been surveyed. And the applicants will site
12 ground-disturbing activities and other proposed project
13 components to avoid or minimize direct impacts on
14 cultural resources.

15 Along with the applicants' construction
16 contractor, the applicants will provide cultural
17 resource sensitivity training to all construction
18 personnel prior to construction. And the applicants
19 have developed and will implement a construction
20 monitoring and unanticipated cultural resource discovery
21 plan if previously undocumented buried cultural
22 resources are identified during ground-disturbing
23 activities. And then, if that happens, all work in the
24 immediate vicinity of the discovery will be stopped
25 until further evaluation.

1 Q. And Ms. Bissonnette, we kind of skipped over
2 this a little bit, but I see there is another slide up
3 and it appears to show a map. If you could just briefly
4 describe to the Committee members what that shows.

5 A. (BY MS. BISSONNETTE) Yes. Again, this map
6 shows where HDR did their Class III Survey. And
7 primarily I will go over areas that were not surveyed
8 due to, again, right of entry access. And that is
9 mostly on the western portion of segment 9, along 10,
10 10, 11, and 13. So it is a little hard to see on this
11 slide, but the tones are a little bit browner tones.

12 CHMN. CHENAL: Member Hamway.

13 MEMBER HAMWAY: So you didn't survey because you
14 couldn't get entry?

15 MS. BISSONNETTE: Correct.

16 MEMBER HAMWAY: Who is the landowner?

17 MS. BISSONNETTE: We didn't have right of entry
18 from the landowners to survey at the time that we did
19 the Class III Survey.

20 MEMBER HAMWAY: Okay. So is it private land?

21 MS. BISSONNETTE: Yes.

22 MEMBER HAMWAY: I can't remember.

23 MS. BISSONNETTE: Yes, on private land. And
24 again, we would make a good faith effort to get back and
25 survey the preferred route 3 areas that had not been

1 surveyed in the past.

2 BY MS. MORRISSEY:

3 Q. And to clarify, if another route were chosen,
4 would the applicants also make that same good faith
5 effort?

6 A. (BY MS. BISSONNETTE) Yes.

7 Q. And finally, Ms. Bissonnette, could you please
8 discuss the noise factor that is also analyzed by this
9 Committee.

10 A. (BY MS. BISSONNETTE) Yes. The impacts from
11 noise would be during construction, the short-term
12 noise, variable and intermittent. And it would be
13 during daytime hours. The limited impacts to
14 sensitive -- it would be limited impacts to sensitive
15 receptors.

16 And during operation and maintenance activity,
17 long-term noise may include corona and transformer noise
18 while transformers are in use inside the Gateway
19 substation, and minor impacts to ambient, to ambient
20 soundscapes.

21 The mitigation that would be applied, the
22 applicants would mitigate the substation noise by
23 designing equipment to comply with the City of Nogales
24 noise ordinance.

25 Q. So Ms. Bissonnette, given that you have just

1 discussed all those factor, could you please summarize
2 your conclusions?

3 A. (BY MS. BISSONNETTE) Yes. The conclusions to
4 my testimony are there are -- there is little to no
5 adverse impacts on environmental factors to be
6 considered by the Committee; anticipated to cause only
7 minimal impacts to biological resources in the vicinity
8 of the project due to implementation of mitigation
9 measures; will not significantly impact groundwater,
10 wetlands, streams, or floodplains; and the applicants
11 have proposed mitigation measures that will reduce the
12 impact of the project on special status species in its
13 vicinity; and the project is not proposed to cross
14 through designated or proposed critical wildlife
15 habitat.

16 The project is consistent with applicable land
17 use plans and policies and minimal long-term direct and
18 indirect impacts on current or future land uses. And
19 based on current survey data, the project will not
20 directly or indirectly affect known historic properties.
21 And the project is not anticipated to significantly
22 impact use or enjoyment of recreational areas or scenic
23 views, and will generate only minor long-term impact to
24 ambient soundscapes.

25 MS. MORRISSEY: And with that, Mr. Chairman, we

1 offer Ms. Bissonnette to any additional questions from
2 the Committee members.

3 CHMN. CHENAL: Member Riggins.

4 MEMBER RIGGINS: Thank you, Mr. Chairman.

5 I had a question regarding the portions of
6 segments 4, 5, and I guess a little bit of 9, that run
7 through the wash. I noticed you had noted that the
8 wash, being ephemeral and intermittent, at times had the
9 potential for runoff. I know on our field trip
10 yesterday I noted the portion where we stopped -- and I
11 don't know if that was Mariposa or Nogales Wash.

12 MS. BISSONNETTE: Mariposa Wash.

13 MEMBER RIGGINS: Okay. I noticed on the
14 southern bank there was a portion that has, it looked
15 like, some erosion control with rocks placed for erosion
16 control. I know the pole locations are still
17 conceptual.

18 I was just wondering, is there any special
19 considerations as far as erosion control and runoff?
20 Because this path follows, especially that segment, 4
21 and 5 and 9 for the Alternative 3 route, is there any
22 special considerations as far as erosion and runoff for
23 those washes?

24 MS. BISSONNETTE: The applicant will use best
25 management practices for erosion control measures. I

1 don't know if there is anything else that you want me to
2 add to that. Special engineering for the pole design as
3 well.

4 MEMBER RIGGINS: Okay. Would there be an offset
5 within that wash? I know they were talking about not
6 putting poles, you know, halfway up on hills. But I was
7 just wondering, the poles possibly wouldn't be located
8 directly in the wash, or is there any offset at all?

9 MS. BISSONNETTE: There will be an offset,
10 but --

11 MS. DARLING: The poles will be located outside
12 of the ordinary high water mark, and also be on the
13 north side of the wash, so closer to the industrial
14 park, not up on the hills though. But they will be
15 offset from and on the bank. Because, I know it was
16 hard to see where we stopped, but it was the only place
17 we could stop, there is quite a bit of flat area between
18 the bank and the back side of the industrial park there.

19 MEMBER RIGGINS: Right. I noted that, too. And
20 I assumed, but I just wanted to make sure.

21 And I also had a similar question. I think,
22 Ms. Darling, you can answer it. This was on our field
23 trip we had. We had noticed, I think it was when we
24 stopped at your last portion and looking towards the
25 Kantor substation, and you noted that, I think either

1 that or Mr. Beck noted, that the runoff -- that roads
2 would be improved. Would similar consideration be taken
3 into effect for the access roads that go towards the
4 substation or to different routes for new access roads?

5 MS. DARLING: Correct. So we will use section
6 nationwide permits, Section 404 nationwide permits for
7 any improvements to the roads that cross the washes. So
8 the banks may need to be pulled back temporarily and
9 then the contours would be restored --

10 MR. RIGGINS: Okay.

11 MS. DARLING: -- per the conditions of the
12 nationwide permit.

13 MEMBER RIGGINS: Okay. Yes. Thank you.

14 MS. DARLING: You are welcome.

15 CHMN. CHENAL: Member Jones.

16 MEMBER JONES: Thank you, Mr. Chairman.

17 During the tour of yesterday, at the stop you
18 were referring to, Mr. Beck had indicated that the pole
19 would be not on the flat place where we were with the
20 bus, but on an incline to some degree but not in the
21 wash. He also indicated at that time that they may
22 elevate the foundation so as to mitigate erosion impacts
23 on the pole.

24 The only remaining question I had: If that is
25 the case, will that elevate the pole as well? Or is

1 it -- how is that taken care of? If you elevate one
2 pole, then I guess you have to elevate several poles, or
3 it is going to look like this.

4 MS. BISSONNETTE: That's a Mr. Beck question.

5 CHMN. CHENAL: I thought Member Riggins was
6 making a valiant answer to stump the panel. But no
7 match for Mr. Jones today.

8 MEMBER JONES: I am just aiding and abetting
9 him.

10 CHMN. CHENAL: I had a couple questions. I may
11 be asking the impossible, but forgive me for being a
12 lawyer, but I have a couple questions on some of your
13 mitigation factors, or your mitigation items that you
14 are going to, that you are going to follow.

15 Not, I am not so much concerned about what they
16 are, but is there some document or some, other than a
17 condition that we impose -- for example, you are going
18 to create a construction monitoring and unanticipated
19 cultural resource discovery plan. You are going to
20 provide sensitivity training for construction personnel
21 prior to construction. There is a number of mitigation
22 measures that you are proposing. But other than saying
23 you are going to comply with them or do them, where is
24 it written that you will obligate yourself or applicant
25 will obligate itself to do so.

1 MS. BISSONNETTE: Those would be conditions in
2 the permit, and --

3 CHMN. CHENAL: The permit being the CEC permit?

4 MS. BISSONNETTE: Presidential Permit.

5 CHMN. CHENAL: The Presidential Permit. Okay.
6 I will ask some follow-up questions on that, but go
7 ahead.

8 MS. BISSONNETTE: Okay. And we are preparing
9 the cultural resources discovery plan; that's in a draft
10 form right now. And I believe that's back -- we
11 submitted that back to DOE to take a look at.

12 CHMN. CHENAL: And that particular plan is also
13 required by the Presidential Permit?

14 MS. BISSONNETTE: Yes.

15 CHMN. CHENAL: Okay. Forgive me, but is the
16 Presidential Permit, it has not been approved yet, has
17 it?

18 MS. BISSONNETTE: It is in the draft EA stage
19 right now.

20 CHMN. CHENAL: Okay. And do you recall the
21 timetable when you anticipate, the applicant anticipates
22 receiving the Presidential Permit, Mr. Guy?

23 MR. GUY: It should be relatively soon after,
24 assuming we are granted a CEC in this proceeding,
25 because they want to see which routes are selected.

1 CHMN. CHENAL: And is the draft Presidential
2 Permit an exhibit? I just don't recall.

3 MR. GUY: There is not a draft Presidential
4 Permit itself. There is a draft EA, which is an
5 exhibit. That is one of the Exhibit Bs to the
6 application.

7 CHMN. CHENAL: Maybe this is a question to the
8 applicant, but will there be a condition that will
9 obligate the applicant to perform these mitigation
10 measures?

11 MR. GUY: I think our form of CEC now has a
12 paragraph that requires the applicant to comply with all
13 ordinances, regulations, plans, orders of agencies. So
14 once the Presidential Permit is issued, there is a
15 condition that requires the applicants to comply with
16 that.

17 We are actually considering also proposing a
18 condition that would commit the applicants to comply
19 with the mitigation measures contained within the draft
20 EA. We believe that would actually capture what you are
21 asking about now. It would also capture all of the
22 measures that are discussed in the Arizona Game & Fish
23 Department letter that's attached to Ms. Darling's
24 testimony.

25 CHMN. CHENAL: Very good, because that was going

1 to be my next question to Ms. Bissonnette.

2 Go ahead.

3 MS. BISSONNETTE: I just wanted to add to that.
4 I was just confirming with Ms. Darling. But yesterday
5 Ms. Darling discussed the environmental monitors. And
6 part of their job, or a big part of their job is to have
7 a list of all the conditions and all the compliance that
8 we talk about in the environmental assessment to make
9 sure that during construction that those conditions are
10 being complied with as well.

11 CHMN. CHENAL: Okay. My last question is to
12 Ms. Bissonnette. And that is: Have you had occasion,
13 ma'am, to review the letter that was sent from Arizona
14 Game & Fish to our Committee? It is Exhibit 1, I
15 believe, to Ms. Darling's testimony. What I would like
16 to do is to take -- to review it and see if you have any
17 objection to any of the requests of the Arizona Fish &
18 Game.

19 MEMBER NOLAND: Mr. Chairman.

20 CHMN. CHENAL: Yes, Member Noland.

21 MEMBER NOLAND: Mr. Chairman, on that letter, I
22 guess I am a little confused, because the letter says
23 during the course of our conversation, we agreed upon
24 the following measures to avoid, minimize, and mitigate
25 impacts from the project. And I don't know what you are

1 asking for there. I am confused. Because I wanted to
2 really drill down on this with your concerns from
3 yesterday.

4 So I am really having trouble understanding what
5 you want from this that we haven't done in the past with
6 the requirements of Fish & Game and the requirements
7 under state law.

8 CHMN. CHENAL: Because it is a -- Fish & Game
9 has specific concerns, I just, I think we should
10 consider them. I know, I know we are. I just, before
11 we impose these conditions, if that's the decision of
12 the Committee, impose the requests and the mitigation
13 measures that Fish & Game is requesting, I just wanted
14 to ask, well, either Ms. Bissonnette or Ms. Darling, if
15 they object to any of those items.

16 There is a laundry list of them. There is quite
17 a few of them. And I just -- before we impose those on
18 the applicant, I just would like to know if the
19 applicant, if the expert on behalf of the applicant for
20 the environmental mitigation measures has heartburn over
21 any of them.

22 MS. DARLING: Well, as one of the applicants, Ed
23 Beck and I are the ones that met with Arizona Game &
24 Fish, and we developed these together. So we are for
25 both projects and have looked at them as well. We are

1 good with all of the conditions.

2 CHMN. CHENAL: Okay.

3 That was my concern, Member Noland.

4 MEMBER NOLAND: Mr. Chairman, I know it is your
5 concern, but I was just trying to understand. I thought
6 the letter said agreed and -- met and agreed on those.

7 CHMN. CHENAL: Well, when we get to the point of
8 making a condition out of it, I just -- I didn't want to
9 have any discussion from the applicant that there is a
10 problem with any of them. I just wanted to get that out
11 of the way right now.

12 MEMBER NOLAND: Okay. Thank you.

13 MEMBER DRAGO: I do have --

14 CHMN. CHENAL: Member Drago.

15 MEMBER DRAGO: I think with regard to the
16 letter, it might help if we get some perspective from
17 the applicant the impetus to have the meeting with a
18 state agency.

19 Because there are a lot of requirements that you
20 all will have to comply with, and this just appears to
21 be a one off. The letter came to the Committee. So if
22 someone could just develop a framework on how the letter
23 came about and why, because I think the Committee is
24 trying to understand what do we do with this letter now.
25 So thank you.

1 MS. DARLING: So Arizona Game & Fish Department
2 initially sent a letter about three or four weeks
3 previous to that in response to the draft environmental
4 assessment for the Nogales interconnection project.
5 Based on that letter, very similar to this letter, we
6 requested to meet with them to better understand what
7 their concerns were regarding both projects.

8 And they also asked us about how they could make
9 sure that their concerns were addressed regarding the
10 Nogales Tap to Kantor upgrade project, because there
11 wasn't the same type of comment period to a hearing for
12 this Line Siting Committee so they were unsure how to go
13 about doing that.

14 So we met with them. We went through their
15 previous letter and discussed their concerns, and came
16 up with these measures, which many of them, most of them
17 are things that we already do.

18 So that's -- does that answer your question
19 about how it came about?

20 MEMBER DRAGO: Yes. But what made them come
21 back to you? Were you all required to submit something
22 to them for review and disposition?

23 MS. DARLING: So they were notified that the
24 draft EA was out for public comment. And they sent a
25 letter to DOE with the initial letter, not this one, the

1 initial letter with DOE, with their comments, which will
2 be in the final EA, that letter. We contacted them
3 after the letter was sent and asked to meet with them
4 so that we could understand all of their concerns and
5 develop a plan.

6 MEMBER DRAGO: Got you. Thank you.

7 CHMN. CHENAL: Sure. Good.

8 Okay. No further questions, I think, from the
9 Committee.

10 MS. MORRISSEY: And we have no further questions
11 as the applicant.

12 CHMN. CHENAL: Do any of the -- Mr. Jacobs, do
13 you have any questions of the panel, sir?

14 MR. JACOBS: No, I don't, Mr. Chairman.

15 CHMN. CHENAL: Okay. Mr. Hains, Ms. Davis, any
16 questions?

17 MR. HAINS: Staff has no questions for these
18 witnesses.

19 CHMN. CHENAL: Okay.

20 MS. MORRISSEY: Mr. Chairman, we would ask to
21 excuse the panel.

22 CHMN. CHENAL: They are excused.

23 It is 2:30. Who is the next -- let me ask who
24 the next witnesses would be.

25 MR. GUY: So, Mr. Chairman, the applicants are

1 complete with the direct case. I know we have a number
2 of follow-up items, four or five, half a dozen. We
3 would probably, during a break, need to assemble that
4 list and then bring up the appropriate witnesses. But
5 at this time, I think we would be moving over to Staff.

6 CHMN. CHENAL: All right. Well, it has been an
7 hour and a half. Maybe we should take a break, you
8 know, 15-minute break, our afternoon break. That will
9 allow, you know, the applicant to marshal their forces
10 and Staff, get ready for their witnesses.

11 Will that give enough time, Mr. Hains, for your
12 witnesses, to take them, you know, in 15 minutes, get
13 them out of here? That's what they want to do, to get
14 back?

15 MR. HAINS: I hope so. I hope so.

16 CHMN. CHENAL: Okay. All right. Let's take our
17 break.

18 (A recess ensued from 2:27 p.m. to 2:59 p.m.)

19 CHMN. CHENAL: All right. This is the time to
20 resume the afternoon hearing. Are there any
21 housekeeping items we should address before we turn this
22 over to Mr. Hains and Ms. Davis?

23 (No response.)

24 CHMN. CHENAL: Okay. I don't know if it is
25 going to be you, Mr. Hains, or Ms. Davis.

1 MR. HAINS: Do you want to swear in the
2 witnesses?

3 CHMN. CHENAL: Yes.

4 Does the panel, do you prefer on oath or
5 affirmation? Or tell me what you prefer.

6 DR. C-EMORDI: Oath.

7 CHMN. CHENAL: Mr. Gray.

8 MR. GRAY: An oath.

9 CHMN. CHENAL: Would you please both raise your
10 right hands.

11 (Nonso Chidebell-Emordi and Bob Gray were duly
12 sworn.)

13 CHMN. CHENAL: Thank you very much.

14 Mr. Hains.

15

16 NONSO CHIDEBELL-EMORDI and BOB GRAY,
17 called as witnesses on behalf of ACC Staff, having been
18 previously duly sworn by the Chairman to speak the truth
19 and nothing but the truth, were examined and testified
20 as follows:

21

22 DIRECT EXAMINATION

23 BY MR. HAINS:

24 Q. Could I have you please give your full name for
25 the record.

1 A. (BY DR. C-EMORDI) My name is Nonso
2 Chidebell-Emordi. Last name Chidebell, hyphen, Emordi,
3 C-H-I-D as delta, E-B, as in bravo, E-L-L, hyphen E-M,
4 as in Mike, O-R-D, as in delta, I.

5 Q. Thank you.

6 And by whom are you employed and in what
7 capacity?

8 A. (BY DR. C-EMORDI) I am employed as an electric
9 regulatory engineer by the Arizona Corporation
10 Commission.

11 Q. And in your capacity as an electrical engineer,
12 were you assigned to evaluate the current application?

13 A. (BY DR. C-EMORDI) Yes.

14 Q. Did you prepare a slide presentation to
15 accompany your testimony here today?

16 A. (BY DR. C-EMORDI) Yes, I did.

17 Q. Briefly could you describe your duties as a
18 Staff engineer.

19 A. (BY DR. C-EMORDI) Well, in addition to
20 providing engineering support for rate cases,
21 certificates of environmental compatibility,
22 certificates of convenience and necessity and financing
23 cases, I provide technical analysis for dockets before
24 the Commission. And these include interconnection
25 rulemaking, Biennial Transmission Assessment, integrated

1 resource planning, and various planning forums. And
2 most importantly, I monitor the integrity of the
3 transmission and distribution grid in Arizona.

4 Q. Thank you.

5 And I believe the next slide would speak to, if
6 I could have you describe, your professional and
7 education background.

8 A. (BY DR. C-EMORDI) Yes. I have a bachelor's
9 degree in chemistry, as well as computer engineering
10 science from the City University of New York. I also
11 have a master's of science in engineering, in civil and
12 environmental engineering, from the University of
13 Michigan Ann Arbor. I have a doctorate in sustainable
14 energy systems from Arizona State University. And since
15 2015 I have been employed at the ACC as an electrical
16 engineer.

17 Q. And what is the purpose of your testimony here
18 today?

19 A. (BY DR. C-EMORDI) The purpose of my testimony
20 is twofold. The first is to establish a hearing record
21 for the Commission's consideration of the balancing
22 test. And second is to provide Staff's technical
23 expertise on the CEC, the project identified in the CEC.

24 Q. And briefly could you describe what the
25 balancing test is you are referring to?

1 A. (BY DR. C-EMORDI) The balancing test -- if you
2 go two slides forward, I believe, yes. The balancing
3 test requires the Commission to evaluate the public
4 interest need for adequate, economic, and reliable
5 electricity supply while minimizing impacts to Arizona's
6 environment and ecology.

7 Q. And what are the components of the balancing
8 test that you are evaluating as part of your testimony
9 here today?

10 A. (BY DR. C-EMORDI) As an engineer I am
11 evaluating the reliability portion, the adequacy,
12 reliability portion of the balancing test.

13 Q. And with regard to the projects, what is your
14 understanding of what the projects that we are
15 evaluating here entail?

16 A. (BY DR. C-EMORDI) Well, based on the
17 application filed by both applicants, my understanding
18 of the project is that the CEC is for two projects. The
19 first is an upgrade to the existing transmission line,
20 and the second is an interconnection project that has
21 three new builds.

22 So if I am to expound further, in the next
23 slide, as described by the applicants, the upgrade of
24 the existing transmission line is a 27 and a half mile
25 138kV transmission line. And the upgrades entail

1 conductor replacements, steel pole replacements.
2 Staff's understanding of the project is that this
3 particular project is constructed, owned, and operated
4 by UNSE.

5 The second project, which is the interconnection
6 project on the next slide, I believe, the Nogales
7 interconnection project, has three new builds. One is
8 Gateway substation, and the other, two new transmission
9 lines. Staff's understanding of this project is that
10 the Gateway substation would have two substations on it,
11 one 138kV substation belonging to UNSE, and one 230kV
12 substation belonging to Nogales Transmission. And in
13 addition to the 230kV substation belonging to Nogales
14 Transmission, there is going to be a 150 megawatt
15 bidirectional high voltage direct current converter that
16 would be owned by Nogales Transmission.

17 The other new builds are a three-mile, I
18 believe, a three-mile 138 double-circuit transmission
19 line that is owned by UNSE. And one circuit would
20 connect to the Valencia transmission line at a point
21 1900 feet north of the Valencia substation, and the
22 second circuit would connect to the Valencia substation.
23 The other new build is the two miles of single circuit
24 with double circuit capable kV line that connects to
25 CFE, or CENACE, at the U.S.-Mexico border.

1 If you go back one slide.

2 So that's a schematic at the terminal node of
3 the UNSE line, built Valencia line. This schematic line
4 shows the Sonoita substation just north of the Valencia
5 substation. And so the new build, the new transmission
6 build would be connecting just north of Valencia
7 substation, as Staff understands the project.

8 Q. Thank you.

9 And with that, what did you conclude or what did
10 you find with regard to your evaluation of the
11 reliability and adequacy components of the application?

12 A. (BY DR. C-EMORDI) Well, Staff looked at the
13 needs and benefits of the project. And I believe that
14 upgrades on the Nogales Tap to Kantor line will increase
15 local and regional transmission system reliability.
16 And, in view of the fact that the Vail to Valencia line
17 is a radial line, the potential created by the Gateway
18 substation provides for a new power source for the
19 Nogales area. So Staff does believe that this project
20 would increase UNS's system reliability in the Nogales
21 area and Santa Cruz County as a whole.

22 The way Staff assessed the project is based on
23 the system impact study that was provided by the
24 applicants. Now, the system impact study looks at the
25 impacts on the transmission grid of the project. And

1 based on Staff's evaluation, we don't choose high
2 voltage converters that were studied in this particular
3 impact study. And of the two, one is a line committed
4 to a converter and the other is a voltage source
5 converter. And Staff believes that the VSC would
6 provide voltage stability and is an economical option
7 for this project.

8 Secondly, the results of the system impact study
9 identified both voltage and thermal upgrades that are
10 required for the connection project to go. In the
11 conversations with the applicants' representatives, they
12 indicated that the time frame of these upgrades that are
13 required will be moved up to support the interconnection
14 project.

15 One of the things that was identified in the
16 study was the potential issue of overload in one of
17 contingency scenarios that are studied for areas. And
18 this would be at the Saguaro Electric District 5 115
19 substation. There is an overload of 1 percent. And
20 Staff believes this would not have an adverse impact on
21 grid safety.

22 The buffer zone is typically plus or minus
23 5 percent for safe operation of the grid. So the
24 applicants have indicated that the report showing that
25 particular overload in that contingency scenario has

1 been provided to WAPA for review.

2 Q. And in the course of your evaluation, have you
3 arrived at any conclusions with regard to the
4 application?

5 A. (BY DR. C-EMORDI) Yes. I believe that the
6 applicants have met the need justification burden, and
7 that the upgrade on the Nogales Tap to Kantor line will
8 improve system reliability in the UNSE service
9 territory. I mean especially in view of the fact that
10 the Vail to Valencia line is a radial line, the Gateway
11 substation provides, like I said, a potential for an
12 additional power source in the case of an outage. And
13 so it is Staff's belief that this project is useful and
14 would help grid reliability, like I said, in the UNSE
15 service territory.

16 Now, it is also my conclusion that the project,
17 as filed, does not have any negative impact on system
18 reliability during normal N-1, that's a single outage of
19 a system element, or multiple contingency scenarios.

20 Q. And is Staff also proposing a recommendation
21 with regard to a condition to the CEC regarding
22 reliability standards to be applied?

23 A. (BY DR. C-EMORDI) Yes. The standard conditions
24 or similar language proposes that the applicants will
25 follow WECC, NERC planning standards as approved by

1 FERC, and NESC construction standards should be included
2 somewhere in the language of the CEC. I believe that,
3 not to take the words out of your mouth, I do believe
4 that the applicant has proposed similar language. I
5 have reviewed it and am comfortable with their version
6 of the language.

7 Q. Thank you. And you anticipated my one question.

8 There was one other question that was not
9 addressed in the slides but was directed towards Staff,
10 with regard to the various questions posed by
11 Mr. Magruder in his intervention request. Were you
12 present yesterday for the testimony of Mr. Ed Beck?

13 A. (BY DR. C-EMORDI) Yes, I was.

14 Q. Were you present for the portion of his
15 testimony where he went through question by question in
16 response to the questions of Mr. Magruder?

17 A. (BY DR. C-EMORDI) Yes, I was.

18 Q. Did you have anything you wanted to add,
19 clarify, contradict, whatever the case may be, with
20 regard to any of the responses provided by Mr. Beck?

21 A. (BY DR. C-EMORDI) While Mr. Beck went into
22 extensive detail in answering the questions, one of the
23 issues Mr. Magruder raised was the possibility of a
24 cascading outage from Mexico affecting the U.S. grid or
25 affecting UNSE's grid. And it is Staff's belief, based

1 on the assessment of the system impact study, that the
2 high voltage direct current converter does act as a
3 circuit breaker. So it would mitigate any such
4 occurrence cascading from CFE, or CENACE, back into
5 UNS's territory.

6 Q. And with that clarification, did you generally
7 agree with the rest of the responses provided by
8 Mr. Beck?

9 A. (BY DR. C-EMORDI) Yes, I did.

10 Q. Okay. Did you have anything else you wanted to
11 add to your testimony at this time?

12 A. (BY DR. C-EMORDI) Not at this time, no.

13 MEMBER WOODALL: Thank you.

14 CHMN. CHENAL: Member Haenichen.

15 MEMBER HAENICHEN: Ms. Emordi, yesterday the
16 applicant explained to the Committee that one of the
17 purposes for this project was to allow bilateral
18 exchange of energy between the two countries, but that
19 the difficulty associated with that was some phase
20 difference between the electricity generated in each
21 country, and that this would be ameliorated by the high
22 voltage DC converter, but we didn't get much detail on
23 that.

24 I was wondering if you could explain, A, why
25 there is that difference in the electricity generated

1 south of the border and our electricity, and B, how that
2 is smoothed out by this converter. Thank you.

3 DR. C-EMORDI: Chairman, Member -- I can't see.

4 MEMBER HAENICHEN: Haenichen.

5 CHMN. CHENAL: Haenichen.

6 DR. C-EMORDI: I will do my best to answer your
7 question.

8 So we use the same frequency both in the U.S.
9 and Mexico. However, the cycling of the frequency is
10 slightly off phase, so the phasing is just slightly off
11 in Mexico. And so what happens is that when you convert
12 from DC, AC to DC, DC has no phase. And so converting
13 from the UNSE territory AC to DC and then converting
14 back to AC, you can sync up the phase with what is going
15 on the Mexican side of the transmission system. So the
16 DC system, AC/DC, AC converter does get rid of that
17 phase difference that occurs across different electrical
18 systems.

19 MEMBER HAENICHEN: Okay. But I would like to
20 know why that phase difference exists in the first
21 place. And could that just be ameliorated by making
22 some changes in the way either country generates their
23 electricity?

24 DR. C-EMORDI: I am sorry. I cannot speak to
25 how the Mexican transmission authority operates their

1 grid, but I am sure that if you ask the applicants, they
2 could expound a bit more on that.

3 MEMBER HAENICHEN: Thank you.

4 DR. C-EMORDI: Thank you.

5 CHMN. CHENAL: Yes, Ms. Emordi, I have one
6 question. With the reliability, your testimony is that
7 this project, both portions will upgrade the reliability
8 of the supply of electricity to, say, the Nogales area.

9 But I remember from the testimony of Mr. Beck
10 that there is still -- the Valencia substation is still
11 the common denominator to both of the lines that will
12 now be serving Nogales, the Vail to Valencia and the
13 Vail to Gateway and the Gateway to Valencia line.

14 So when there are outages that occur, can you
15 give us a feel for the kind of outages or problems that
16 develop on lines versus substations? It always seems
17 that when I hear about an electrical storm or something
18 that comes into the Phoenix area, there is lines going
19 down, but then there is transformers that blow.

20 Can you give us a -- there still seems to be a
21 reliability problem because there is only one
22 substation, Valencia substation. So I guess what I
23 am -- I am not asking this in a very articulate fashion.
24 But it does improve reliability, but there is still a
25 problem with there being one substation. So maybe you

1 could just agree.

2 DR. C-EMORDI: I am glad you asked that question
3 because I had wanted to expound on that a little bit.

4 If you go back a couple slides, the one with the
5 schematic with the substation. Yes, over here.

6 So right now the primary power source is a plant
7 at the Valencia -- just close to the Valencia
8 substation. So if there is an outage at the Valencia
9 substation, the entire Vail to Valencia line experiences
10 an outage. Now, with the new Gateway substation, UNSE
11 Gateway substation, there is a potential that you can
12 feed in power from Mexico. Now, that doesn't solve the
13 problem of the outage in the Valencia area; however, all
14 the UNSE ratepayers north of that substation won't have
15 an outage. So you would have power there while they are
16 resolving the issue at the Valencia substation.

17 Now, in my conversations with Ed Beck, he had
18 indicated that they are working on increasing the
19 distribution circuitry infrastructure indicated with
20 Gateway substation so that an outage at Valencia does
21 not equal an outage for the entire Nogales area.

22 So this new build would help in ameliorating the
23 extent of the impact of an outage, because, as it is
24 right now, if anything happens at Valencia, the entire
25 radial line is affected. But this would just reduce the

1 impact to all the UNSE customer on the entire
2 transmission line.

3 I hope that answers your question in some
4 fashion.

5 CHMN. CHENAL: It does. It is helpful.

6 So if there is an outage at Valencia, with the
7 Gateway substation there is a possibility to bring power
8 up from Mexico to feed the UNSE customers north of
9 Valencia?

10 DR. C-EMORDI: That's correct.

11 CHMN. CHENAL: The other comment you made was
12 that with some additional improvements to the Gateway
13 substation, there still -- even if there was an outage
14 in Valencia, there is still a way to bring power through
15 Gateway to serve the Nogales customers?

16 DR. C-EMORDI: If --

17 CHMN. CHENAL: I don't understand that, because
18 I still see on the schematic that all power seems to go
19 through Valencia. So how, from Gateway, to serve
20 Nogales?

21 DR. C-EMORDI: So there is a 138. There is
22 supposed to be -- there is a planned 138kV substation in
23 Gateway. One circuit goes from that particular Gateway
24 substation to a point north of the Valencia substation,
25 and the second circuit goes from that Gateway substation

1 to Valencia.

2 Now, if there is an outage in Valencia, then the
3 one, the 230kV substation that is owned by Nogales
4 Transmission can feed power through the high voltage DC
5 converter from Mexico to the other circuit that is
6 connected north of the Valencia substation. So you
7 still have an outage south, but the customers in the
8 northern portion of that radial line would have power.
9 That's my understanding of the project based on
10 conversations with the applicant.

11 CHMN. CHENAL: Okay. Thank you. And I
12 understand what you are saying, not nearly as well you
13 do. But I -- I asked you to recommend what fish to get
14 at the restaurant the other night. I guess I had no
15 idea. It was a good --

16 Member Drago.

17 MEMBER DRAGO: Yeah. Hi. I got a question on
18 the Slide 14, if you could go back. The last bullet.
19 How concerned are you that you have a potential to
20 overload by 1 percent? Last bullet.

21 DR. C-EMORDI: Member Drago. Is it Drago?

22 MEMBER DRAGO: Drago.

23 DR. C-EMORDI: So your question is how confident
24 am I?

25 MEMBER DRAGO: How concerned are you that that

1 contingency -- yeah, those 1 percent.

2 DR. C-EMORDI: So when I looked at the system
3 impact study, it studies, it models a whole bunch of
4 possible scenarios of outage of various system elements,
5 from substations to transformers to transmission lines
6 being down. So this is just one of those scenarios.

7 Now, the assessment does indicate that it is a
8 1 percent overload. And this is not new. Based on my
9 conversations with the applicant and data request
10 responses, there are three owners of that particular
11 substation, and they are aware that that is a possible
12 scenario. But they do not seem concerned by that
13 1 percent because typically in engineering, a plus or
14 minus 5 percent buffer is anticipated in transmission
15 line design. And so I do feel comfortable that this
16 would not affect grid safety operations.

17 However, if, you know, they go up to 300
18 megawatts in the future, or if the configuration
19 changes, that would be a different system impact study,
20 and then we would be looking at that substation to see
21 if the overload is more than 1 percent or more than
22 5 percent. But typically plus or minus 5 percent is our
23 comfort level.

24 Does that answer your question?

25 MEMBER DRAGO: Yes, very good. Thank you. I

1 want to follow up.

2 I would assume that the assumptions made in the
3 model are very conservative. Would that be your
4 assessment.

5 DR. C-EMORDI: That's my belief, yes.

6 MEMBER DRAGO: Okay. Thank you.

7 CHMN. CHENAL: Member Hamway.

8 MEMBER HAMWAY: Can you talk about the need
9 justification burden? Is that like a document that sits
10 somewhere that you just have a checklist and you look at
11 the burden? I know you answered him, so there is
12 probably some modeling that goes into that. But what
13 are the -- what is the burden?

14 And then, also, you said it has no negative
15 impact. Does it have a positive impact or is it a
16 neutral impact.

17 DR. C-EMORDI: So I want to make sure --

18 MEMBER HAMWAY: Yeah, looking at Slide No. 15,
19 Bullet No. 1 and Bullet No. 4.

20 DR. C-EMORDI: Okay. Let me do my best to
21 address your question.

22 So the need justification burden is based on a
23 couple factors. One is does it actually improve the
24 transmission system where it is going in. And we do
25 believe, we do believe that it does.

1 MEMBER HAMWAY: Okay.

2 DR. C-EMORDI: Is there a problem in that area
3 that this helps? Yes, there is. Because it is, like I
4 said, it is a radial line. It is just one line in. And
5 so this would help alleviate the degree of outage,
6 outages that are experienced in that area. That's one
7 thing.

8 To your second question about --

9 MEMBER HAMWAY: So just are those questions that
10 you just kind of ask against any kind of project that
11 comes before you?

12 DR. C-EMORDI: Yes. In my data request I
13 specifically ask, you know, how does this -- what is the
14 need of this project, how does it help the ratepayers in
15 that particular service area, what are the impacts to
16 the grid, are there any negative impacts to the grid.
17 And then I ask for various studies.

18 And so there is a lengthy back and forth to
19 determine the impacts of that particular project,
20 whether it be a transmission line or a new generation
21 station, to figure out if that project is actually
22 needed in that service area. If it is, you know, owned
23 by, obviously by -- if it is not a merchant plant. So
24 yeah, there are a whole bunch of questions that I do ask
25 to ascertain if there is any.

1 MEMBER HAMWAY: Okay. And the other question,
2 you said it doesn't have a negative impact. Does it
3 have a positive impact or is it a neutral impact?

4 DR. C-EMORDI: So the contingency analysis asks
5 if or tries to model what would happen if there is one
6 system element that goes out of service, either due to
7 extreme weather events, which we don't really have in
8 Arizona, or some accident or animals running into the
9 substation, for instance.

10 And what we look at is does this new
11 transmission line or facility, does it make things worse
12 if something happens, does it make it better if
13 something happens; if there is an outage of one system
14 element, does it have no impact, it doesn't change
15 anything, the system would operate as it would have
16 whether or not that new build was in place. And for
17 this particular project, it doesn't have any adverse
18 effects.

19 Now, there is a potential for, especially for
20 the interconnection project, because that's a new build,
21 there is a potential for positive impacts. But it
22 doesn't have any negative impact if some combination of
23 system elements, substation, feeder, transmission line
24 goes out of service. So that's what I look at for the
25 impact on the safe operation of the grid or the

1 combination of contingencies that can cause an outage.

2 Does that -- I hope that answers your question.

3 MEMBER HAMWAY: Thank you.

4 CHMN. CHENAL: It does not appear that the
5 Committee has any further questions. Having said that,
6 I just contradicted myself. One more.

7 The condition that you suggested regarding the
8 FERC and NERC construction standards, you are satisfied
9 that the condition that's in the draft CEC by the
10 applicant satisfies the recommendation you are making?

11 DR. C-EMORDI: Yes, I am.

12 CHMN. CHENAL: All right. Thank you very much.

13 MR. HAINS: All right. Well, thank you.

14 Actually, before opening up Dr. Emordi for
15 cross, I was actually thinking we would provide
16 Dr. Emordi and Mr. Gray as a panel for cross-examination
17 simultaneously. And right now we are going to
18 transition into allowing Ms. Davis to offer Mr. Gray's
19 direct testimony.

20 CHMN. CHENAL: And that's what I was going to
21 suggest. So let's proceed with Ms. Davis with your
22 witness.

23 MS. DAVIS: Thank you, Mr. Chairman, members of
24 the Committee.

25

1 DIRECT EXAMINATION

2 BY MS. DAVIS:

3 Q. Hello, Mr. Gray.

4 A. (BY MR. GRAY) Hello.

5 Q. Would you please state and spell your full name
6 for the record.7 A. (BY MR. GRAY) Sure. My name is Robert Gray,
8 R-O-B-E-R-T, G-R-A-Y.

9 Q. And who is your employer?

10 A. (BY MR. GRAY) My employer is the Arizona
11 Corporation Commission.12 Q. And in connection with your testimony here
13 today, did you prepare a slide show to assist you in
14 your testimony?

15 A. (BY MR. GRAY) Yes, I did.

16 Q. We can go to the next slide, please.

17 Mr. Gray, what is your job title?

18 A. (BY MR. GRAY) I am a public utility manager in
19 the Utilities Division of the Corporation Commission.20 Q. Could you describe your duties and
21 responsibilities as a public utility manager for the
22 Corporation Commission?23 A. (BY MR. GRAY) Sure. I am in the policies and
24 program section of the Commission, and I supervise a
25 number of employees. I also do direct casework on a

1 variety of matters, water, wastewater, electricity,
2 natural gas issues.

3 Q. How long have you held that position?

4 A. (BY MR. GRAY) I have been in that position -- I
5 started that position almost two years ago.

6 Q. Prior to working as a public utility manager
7 where were you employed?

8 A. (BY MR. GRAY) I was employed at the Arizona
9 Corporation Commission. I have been with Staff since
10 1990.

11 Q. And what other positions have you held at the
12 Commission since 1990?

13 A. (BY MR. GRAY) When I first came to the
14 Commission I was, my job title, I was an economist.
15 Then I moved to a public utility analyst, then an
16 executive consultant prior to becoming a public utility
17 manager.

18 Q. And what is your educational background?

19 A. (BY MR. GRAY) I have a bachelor's degree in
20 geography from the University of Minnesota in Duluth,
21 and a master's in geography from Arizona State
22 University.

23 Q. Do you have any other relevant professional
24 experience?

25 A. (BY MR. GRAY) Yes. In the past I have chaired

1 the NARUC Staff Subcommittee on Gas from 2005 to 2007.
2 And currently I serve on the North American Energy
3 Standards Board's Executive Committee and Board of
4 Directors.

5 Q. Do you have any prior experience testifying in
6 line siting cases?

7 A. (BY MR. GRAY) Yes, I do. I testified quite a
8 few times over the years back in the period where there
9 was a lot of gas generators being sited. Most recently
10 I testified in the SunZia case.

11 Q. In your capacity as the public utilities
12 manager, were you assigned to review and analyze the
13 joint CEC application for the interconnection project
14 and the Nogales Tap to Kantor project that was submitted
15 by Nogales Transmission, LLC, and UNS Electric,
16 Incorporated?

17 A. (BY MR. GRAY) Yes.

18 Q. And did you review and analyze the joint
19 application?

20 A. (BY MR. GRAY) I did.

21 Q. In addition to the joint application, did you
22 review and analyze anything else?

23 A. (BY MR. GRAY) Yes.

24 Q. Could you describe what you reviewed, please?

25 A. (BY MR. GRAY) I reviewed -- there were data

1 requests. I reviewed the documents that had been filed
2 in Docket Control at the Commission. We also had
3 discussions with the applicants, internal discussions
4 amongst Staff.

5 Q. Did you review the prefiled testimony from
6 Nogales Transmission and UNS?

7 A. (BY MR. GRAY) Yes, I did.

8 Q. And in light of your review and analysis of
9 these materials, what is the purpose of your testimony
10 here today?

11 A. (BY MR. GRAY) The purpose first is to provide
12 ACC Staff's policy perspectives on the project, and,
13 second, to provide Staff's overall recommendation
14 regarding the project.

15 Q. And when you say the project, you are referring
16 collectively to the interconnection project and the
17 Nogales Tap to Kantor project, correct?

18 A. (BY MR. GRAY) That's correct.

19 Q. Based on your review of the materials we just
20 discussed, what is your understanding of the purpose of
21 the project?

22 A. (BY MR. GRAY) My understanding is there are a
23 number of purposes. One is to provide a second source
24 of power to the Nogales area, which is currently served
25 by one transmission line. And I know, having been at

1 the Commission a long time, I know that has been an
2 outstanding issue for quite awhile.

3 To create a power market, there has to be access
4 to the Mexican market, which could provide economic
5 benefits. There is -- I know the applicant also cited
6 possible economic development. There is a more stable
7 electric grid in the area. And then I know typically
8 with these kind of projects there is additional tax
9 revenue. That's property taxes on the facilities that
10 are constructed.

11 Q. In the course of your analysis, did you happen
12 to look at which entities would be responsible for the
13 construction and financing of different components of
14 the project?

15 A. (BY MR. GRAY) Yes. And the slide that's
16 currently up on the screen, this is a table actually
17 that was provided by the applicant that I thought would
18 be helpful to kind of lay out the different pieces of
19 the project and who constructs, owns, and will operate
20 each of those pieces of the project.

21 Q. Going back to a higher level analysis, what did
22 you consider with regard to the project cost?

23 A. (BY MR. GRAY) The applicant cited in their
24 application the total cost of the projects; it varied a
25 little bit depending which alternative was selected. In

1 looking at costs, UNS Electric ratepayers and Tucson
2 Electric ratepayers would bear certain costs.

3 And I note that some of those costs will also be
4 borne by customers who use these transmission lines,
5 because the costs, the way the costs are treated for a
6 project like this, they are run through the FERC
7 regulated transmission rates in the OATT for each
8 company. So if another entity is using these
9 facilities, they would help pay those costs.

10 Q. And it is your testimony, just to recap, the
11 construction costs, those would be borne by UNS Electric
12 ratepayers, is that correct?

13 A. (BY MR. GRAY) And anybody else who uses those
14 projects, yes.

15 Q. And the network upgrades would be borne by TEP
16 customers?

17 A. (BY MR. GRAY) Yes. And again, if other folks
18 use those projects, they would help in paying those
19 costs.

20 Q. How would you describe the potential benefits
21 that would be observed by these ratepayers?

22 A. (BY MR. GRAY) Again, the reliability side of
23 things, there is some potential economic benefits.
24 There is the potential for, because you are accessing a
25 broader electric market, to possibly reduce your

1 purchased power costs if there are opportunities to buy
2 cheaper power from Mexico.

3 There is also the opportunity going the other
4 way, to make sales into Mexico, that the benefits of
5 those could reflect to UNS and TEP ratepayers
6 specifically through their purchased power and full
7 adjustment clauses.

8 Q. Mr. Gray, in the course of your analysis, did
9 you look at how certain assets or resources on the
10 Mexican side the border would be used in connection with
11 the project in Arizona?

12 A. (BY MR. GRAY) Yes, in a general sense. We
13 asked a few questions of the applicant to try to
14 understand what resources were on the other side of the
15 border. And this slide, we indicate their existing
16 resources include oil, natural gas, and hydroelectric
17 resources in Mexico. And information provided by the
18 applicant also indicated that there was anticipated
19 significant development of new natural gas and
20 photovoltaic generation resources in northwest Mexico.

21 And the map on the next page was provided by the
22 applicant, and I just thought that would be useful to
23 kind of show the system on the Mexican side, show
24 generally what resources there are and where they are.

25 Q. Okay. You were present for Dr. Emordi's

1 testimony earlier with respect to the components of the
2 balancing test associated with transmission projects,
3 correct?

4 A. (BY MR. GRAY) That's correct.

5 Q. And do you agree with Dr. Emordi's testimony on
6 the components of the balancing test?

7 A. (BY MR. GRAY) Yes, I do.

8 Q. What components of the balancing test did you
9 look at?

10 A. (BY MR. GRAY) I looked at probably the most, I
11 looked at the economics and, to some extent, the
12 reliability.

13 Q. And what is your testimony with respect to the
14 economics and reliability as it goes to the need
15 component in this case?

16 A. (BY MR. GRAY) As far as the economics, there
17 certainly is a cost to the project of constructing the
18 pieces. There are potential economic benefits I touched
19 on of power sales into Mexico, and also possibly
20 purchasing lower cost power at times from Mexico. And
21 then the reliability that I think Ms. Emordi touched on
22 in significant detail is another aspect.

23 Q. How does the merchant aspect of the project tie
24 into the need analysis in this case?

25 A. (BY MR. GRAY) Looking at the need regarding

1 merchant facilities, I think first, the first time this
2 really came up was in the SunZia case that I was
3 involved in, and, at the Staff level, tried, we tried to
4 think through how to look at need. Because it is a
5 little different looking at the need for a merchant
6 plant project than if you are building a transmission
7 line to, say, meet additional growth in, say, part of
8 the Phoenix metro area or where there is a clear direct
9 tie to the need.

10 So in looking at that, there are parts of this
11 project that are specifically merchant, particularly the
12 230 transmission line and the Nogales Gateway
13 substation. And my understanding is the other parts are
14 being developed in support of the merchant aspect.

15 The applicants have indicated that the merchant
16 project will require sufficient commitments to move
17 forward. And in Staff's perspective, we think that the
18 achievements of those sufficient commitments
19 demonstrates that there is a need for the project or
20 else it wouldn't move forward.

21 And my understanding -- I wasn't here, but my
22 understanding discussing with my fellow Staff members
23 was that at the open season that the company had they
24 achieved significant commitment or interest to move
25 forward. So I think if that understanding is correct,

1 then they would demonstrate the need that way.

2 Q. Are there any other relevant considerations as
3 part of your testimony?

4 A. (BY MR. GRAY) Just briefly to touch on the next
5 slide, the natural gas considerations, southern Arizona,
6 the El Paso Natural Gas southern system is the sole
7 source of natural gas for electric generation in
8 southern Arizona, and also provides significant natural
9 gas supplies for electric generation in northwest Mexico
10 via multiple pipelines that cross the border.

11 And to the extent this project could lead to
12 additional gas/electric generation in southern Arizona
13 or northwest Mexico, it could place additional strain on
14 the El Paso Natural Gas pipeline system, and
15 specifically currently the El Paso southern system is
16 fully committed as far as pipeline capacity. And it
17 could also point to an increased need for development of
18 natural gas storage in Arizona.

19 And then regarding the proposed projects, the
20 applicant indicated that for three of the alternatives
21 the lines would cross an El Paso pipeline. So we are
22 proposing kind of the standard condition that relates to
23 that situation.

24 Q. And that leads me into my next question, whether
25 you have any proposed, as a member of Staff, have a

1 proposed condition for the project in addition to
2 Dr. Emordi's proposed condition.

3 A. (BY MR. GRAY) Yes. On Slide 13 we have a
4 proposed condition. My understanding is that the
5 proposed CEC has some different wording. I have
6 reviewed that wording, and Staff is okay with the
7 proposed wording and the proposed CEC.

8 Q. Would you mind explaining a little bit about the
9 condition for the record?

10 A. (BY MR. GRAY) Sure. It is basically in cases
11 where the project facilities will be within 100 feet of
12 an existing natural gas or other kind of hazardous
13 liquid pipeline, that the applicants will be required to
14 perform certain studies to ensure there aren't negative
15 effects from that.

16 Q. And the applicant has proposed changes to that
17 condition?

18 A. (BY MR. GRAY) Yes.

19 Q. Are you able to describe the proposed changes at
20 this time?

21 A. (BY MR. GRAY) I don't have those in front of
22 me. I think they are various wording changes. I don't
23 think any of the changes materially change the
24 condition. And I -- Staff does not have any issue with
25 the changes the applicants are proposing.

1 Q. Thank you, Mr. Gray. Do you have anything else
2 that you wanted to add to your testimony at this time?

3 A. (BY MR. GRAY) Just a summary. Staff's position
4 is that Staff believes the second potential source of
5 electricity for the Nogales area is a significant
6 benefit, and Staff is in support of the projects.

7 Q. And do you adopt the slide show you prepared as
8 your testimony here today?

9 A. (BY MR. GRAY) Yes, I do.

10 MS. DAVIS: Chairman, I would like to move -- I
11 am sorry. I would like to move both Exhibits ACC-1,
12 Dr. Emordi's testimony, into evidence, and Mr. Gray's
13 testimony as ACC-2.

14 CHMN. CHENAL: Any objection to entering ACC-1
15 and ACC-2 as exhibits?

16 (No response.)

17 CHMN. CHENAL: Okay. No objection, ACC-1 and
18 ACC-2 are admitted.

19 (Exhibits ACC-1 and ACC-2 were admitted into
20 evidence.)

21 MS. DAVIS: Thank you.

22 And with that, Dr. Emordi and Mr. Gray are
23 available for the panel's questions -- excuse me, the
24 Committee's questions.

25 CHMN. CHENAL: Okay. Member Woodall.

1 MEMBER WOODALL: Mr. Gray, this question is for
2 you. You indicated that you thought there was the
3 possibility for economic benefits to selling power to
4 Mexico. Were you considering that the sale of that
5 energy would come from generators located in Arizona?
6 Is that one of the possibilities?

7 MR. GRAY: That's certainly one of the
8 possibilities, yes.

9 MEMBER WOODALL: And I don't know anything about
10 taxes on sales of energy, but is there any state tax
11 that would be applicable to such a sale?

12 MR. GRAY: I am not familiar with how taxes are
13 applied to the sale of natural gas.

14 MEMBER WOODALL: I didn't know either. I was
15 trying to figure out. But it is conceivable that sales
16 of power to Mexico could come from Arizona generators,
17 and they could also come from out-of-state generators,
18 is that correct?

19 MR. GRAY: Certainly. You know, under FERC open
20 access rules, everybody, you know, fundamentally has the
21 same access for transmission.

22 MEMBER WOODALL: Thank you. Thank you, sir.

23 CHMN. CHENAL: Member Jones.

24 MEMBER JONES: I am aware of one other location
25 where Arizona electricity is sold into Mexico, and

1 that's through San Luis. And Arizona Public Service has
2 a line there that they sell into Mexico. And it is less
3 expensive because of the lack of -- or the -- state
4 taxes aren't applicable, nor any federal on that as an
5 export. So there is no tax revenue off the sales other
6 than the benefit to the utility that is making the sale.
7 So it is an indirect benefit, I guess, to their
8 ratepayers.

9 MEMBER WOODALL: Thank you.

10 CHMN. CHENAL: Member Haenichen.

11 MEMBER HAENICHEN: Just to carry on with the
12 discussion just introduced by Member Jones of the
13 San Luis transfer of energy from APS to Mexico, wouldn't
14 that have the same problem of this phase problem as this
15 proposed line?

16 MEMBER JONES: Mr. Chairman, if I could, it is
17 not -- it doesn't flow both ways. It is a single line
18 that goes only into Mexico. There is no reciprocity --

19 MEMBER HAENICHEN: I understand that, Mr. Jones.

20 MEMBER JONES: -- in the system.

21 MEMBER HAENICHEN: The point is they would still
22 have that mismatch, would they not, just going one way?

23 DR. C-EMORDI: I will try and answer your
24 question. I am not familiar with that particular
25 project. I do know that not all regions of Mexico have

1 the same mismatch in phase shift. So I cannot speak to
2 that particular project. I could look it up if you
3 would like to have more information about it.

4 MEMBER JONES: Mr. Chairman, I might be able to
5 answer that. San Luis is part of the Baja grid which
6 comes through the U.S. And after that, further into
7 Sonora, it is on a different grid.

8 MEMBER HAENICHEN: Okay. So then it would not
9 have this problem.

10 MEMBER PALMER: That was my comment. That
11 testimony was offered yesterday.

12 MEMBER JONES: Yeah.

13 CHMN. CHENAL: Any --

14 MEMBER HAMWAY: I have one.

15 CHMN. CHENAL: Okay, Member Hamway.

16 MEMBER HAMWAY: So this kind of goes back to my
17 question yesterday about the rates. So Mr. Gray, did
18 anything you say, does it contradict anything you heard
19 Mr. Beck say yesterday about rates and who pays for
20 what?

21 MR. GRAY: I wasn't here to hear what Mr. Beck
22 said.

23 MEMBER HAMWAY: Okay. Well, so what is the
24 likelihood that FERC transmission rates will go up due
25 to this project?

1 MR. GRAY: I mean I think these are additional
2 costs that would factor into the FERC rates. On the
3 other hand, you will have some additional participants
4 also using the line. So I think it is hard to know how
5 that will balance out.

6 MEMBER HAMWAY: Okay. So the same thing is you
7 say TEP ratepayers would bear the cost of certain
8 network upgrades, but this could all be offset by -- so
9 as a customer, would I ever know the answer to that?

10 MR. GRAY: I mean as a customer, you are -- I
11 doubt you are going to -- you know, the effect of this
12 would be big enough to notice. And I mean the applicant
13 has indicated to Staff in discussions that they believe
14 there is significant opportunities to offset some or all
15 of these costs through sales and so on.

16 They have indicated that, at least initially,
17 their expectation is the overflow of power would be from
18 north to south. So that tells me that they are
19 anticipating off-system sales that would then roll into
20 the respective company's purchased power and fuel
21 adjustment costs, and reduce the rate associated with
22 that cost.

23 MEMBER HAMWAY: So does the Commission or Staff
24 ever see the results of this?

25 MR. GRAY: I mean we certainly -- you know, the

1 process at FERC is open, and we can see what is filed at
2 FERC. You know, for TEP and UNS we have the
3 transmission adjuster that flows those costs through to
4 ratepayers. So we certainly -- there is access to that
5 information.

6 And, you know, it is hard at this point to know
7 how much, you know, savings there will be from
8 off-system sales and any possible purchases from Mexico.
9 So it is hard to know how much the cost of the project
10 will be offset by those.

11 MEMBER HAMWAY: But it is not anything that is
12 looked at unless a rate case comes before the
13 Commission, correct?

14 MR. GRAY: I mean the FERC, the FERC rates are
15 set by a process at FERC. Certainly, you know, there is
16 opportunity for people to see what is filed at FERC.
17 And if there was a red flag that somebody saw, they
18 could raise the issue with FERC in setting of rates.

19 MEMBER HAMWAY: Okay. Thank you.

20 CHMN. CHENAL: Member Haenichen.

21 MEMBER HAENICHEN: Mr. Gray, the job of this
22 Committee is to evaluate proposals from the applicants
23 and make a decision on whether they are environmental
24 and they are a benefit. This is an unusual one in a
25 couple of ways, but there are two proposed advantages to

1 this, as I understand it. One is increased capacity and
2 reliability of the electric supply to the City of
3 Nogales, Arizona, and, on the other hand, the
4 opportunity for a profitable exchange of energy between
5 two countries.

6 In your opinion -- this is just asking for your
7 opinion, that's all I am asking -- which of those two
8 attributes is the more important one in this project?

9 MR. GRAY: I think Staff, you know, Staff, we
10 look at the reliability benefit, and that's a
11 significant tangible known benefit.

12 The other benefit, I mean I think it is
13 reasonable to assume there will be some amount of
14 economic benefit from the sales, but it is more
15 speculative and uncertain.

16 So I think fundamentally we are hanging our hat
17 primarily on the reliable benefit, with the opportunity
18 for off-system sales, and so on as kind of a secondary
19 but possibly significant benefit.

20 MEMBER HAENICHEN: Good answer. Thank you.

21 CHMN. CHENAL: Member Jones.

22 MEMBER JONES: Mr. Chairman, thank you. My
23 question relates to the -- in testimony yesterday it was
24 alluded that the system that serves Nogales has a number
25 of vulnerabilities that would still be there after these

1 improvements are made.

2 My question, though, is: Does what is proposed
3 create, is it a prerequisite to some degree to
4 addressing those other vulnerabilities that are not in
5 this project that would be the subject of another CEC?

6 DR. C-EMORDI: So Member Jones, the
7 vulnerabilities that I identified, the causing of the
8 outages, to my understanding, are more at the
9 distribution level than at the transmission level. So
10 that would not typically entail a CEC.

11 Now, in conversations with the applicants, they
12 have indicated that they are planning to do those
13 upgrades of the facilities to ensure that those outages,
14 especially at the Valencia, Sonoita substation area,
15 would not continue in the future. So that's separate
16 from what the CEC focuses on, because you focus on
17 transmission level facilities. These are more, to my
18 understanding, at the distribution level.

19 MEMBER JONES: But to further my question, once
20 the proposed improvements or additions to the system are
21 made, will that facilitate those other improvements for
22 distribution, or does it have no bearing on it
23 whatsoever?

24 DR. C-EMORDI: So I am sure Mr. Beck can answer
25 it in way more detail, but my understanding, again, is

1 that the facilities like you described at Gateway
2 station would facilitate the expansion of the
3 distribution network in the Gateway substation area so
4 that that would alleviate overloading at the terminal
5 node of the Vail to Valencia line. So the answer is
6 yes; short answer is yes.

7 MEMBER JONES: And that wasn't included in -- I
8 don't think that benefit was included in the testimony
9 otherwise, but it probably should be recognized.

10 DR. C-EMORDI: I am sure Mr. Beck can speak to
11 that.

12 MEMBER JONES: Thank you.

13 CHMN. CHENAL: I have a couple questions,
14 Dr. Emordi. The question was asked about the transfer
15 of power from the U.S. to Mexico, specifically San Luis.
16 And because San Luis is part of the Baja system, it is
17 in the same synchronicity of the United States. But in
18 this project it is anticipated power will flow into the
19 United States, into Nogales, Mexico, which I assume is
20 not within the same, you know, grid as the Baja.

21 So that question that Member Haenichen asked
22 still exists. If power goes from the U.S. into the
23 Mexican system here under this project, will there be
24 any problems that would need to be addressed such as the
25 DC, the way the DC converter synchronizes, alters the

1 different countries' different phasing?

2 DR. C-EMORDI: I want to make sure I understand
3 your question, Chairman. Are you asking, considering
4 the fact that the two systems are asynchronous, if there
5 would be an issue if we are going south-north, power
6 flows south-north?

7 CHMN. CHENAL: No. South-north, the DC
8 converter as I understand, it will allow the system to
9 synchronize the a -- I won't even try to say it --
10 asynchronicity. Colette will have that. It is the
11 correct word, even though I am not pronouncing it right.
12 But it is corrected going north because of the DC
13 converter. Going south, though, there won't be a -- how
14 does Mexico address that system -- that situation?

15 DR. C-EMORDI: So the DC converter is
16 bidirectional. It converts in both directions. So
17 where you are north-south, it is AC/DC/AC, but
18 synchronizes with the Mexican phase. And when you are
19 going south-north, it goes again AC/DC/AC, synchronizing
20 with the U.S. phase.

21 CHMN. CHENAL: Well, I understand what you said,
22 I hear what you have just said, Doctor; I am not sure I
23 understand it, or that I ever will. But maybe I should
24 have an off-line conversation with Member Haenichen, as
25 we have had previously.

1 But the Mexican power coming across the border
2 to the north, if it is not in the same synchronicity as
3 the U.S. power, it needs to be -- go through a converter
4 to be in synchronicity with U.S. power. Is that true,
5 though, going south?

6 DR. C-EMORDI: Yes, it is.

7 CHMN. CHENAL: Okay. So there would have to be
8 this DC conversion --

9 DR. C-EMORDI: Both ways.

10 CHMN. CHENAL: -- both ways.

11 DR. C-EMORDI: Yes.

12 CHMN. CHENAL: In all cases.

13 DR. C-EMORDI: In all cases. So the DC line has
14 no phase.

15 CHMN. CHENAL: Okay. So it acts as a master
16 translator and it works.

17 DR. C-EMORDI: Pretty much, that's concise.

18 CHMN. CHENAL: Mr. Gray, a couple questions.

19 One, one of your slides refers to firm and nonfirm
20 power. I would just like you to explain what the
21 difference is between the two.

22 MR. GRAY: I say firm is a firm commitment for a
23 certain amount. Nonfirm is more of a possibility daily,
24 hourly, short-term kind of purchase. I guess nonfirm
25 probably more, as I am thinking about it -- firm is a

1 firm commitment, where you have to deliver; nonfirm is
2 possibly interruptible or less, lower priority.

3 CHMN. CHENAL: Okay. You talk about creation of
4 a power market, increasing market liquidity, and
5 providing the opportunity for UNS and TEP to engage in
6 firm and nonfirm energy transactions. Was that the
7 context?

8 MR. GRAY: Yes.

9 CHMN. CHENAL: Last question. You indicated
10 with respect to the condition that you had proposed, or
11 the Staff had proposed, and you compared it to the
12 similar condition, gas condition -- I will refer to it,
13 as that was in the draft CEC -- you, I think, indicated
14 that you are comfortable with the language in the
15 proposed CEC of the applicant, is that correct?

16 MR. GRAY: That's correct.

17 CHMN. CHENAL: But I also think I heard the tail
18 end of your testimony was that you had proposed some
19 changes to that language?

20 MR. GRAY: No, no.

21 CHMN. CHENAL: Okay.

22 MR. GRAY: I had my wording that was in my
23 PowerPoint slide. Then, later, I saw the applicants'
24 revised wording, I saw what words were changed. I was
25 comfortable how they changed it, so I have no changes to

1 what they proposed.

2 CHMN. CHENAL: All right. Good.

3 Any further questions before we turn it over for
4 any cross-examination? Mr. Jacobs?

5 Excuse me. Member Hamway.

6 MEMBER HAMWAY: So in Mr. Virant, Matt's
7 testimony, he calls Nogales Transmission an indirect
8 subsidiary and you call it an unregulated affiliate. Is
9 there a difference?

10 MR. GRAY: I mean I think I was looking at it
11 from the standpoint of how it relates to the regulated
12 utilities that the Commission has authority over, UNS
13 Electric and TEP. And specifically I was looking -- let
14 me get to the slide, where it shows ownership.

15 MEMBER HAMWAY: It probably doesn't matter. I
16 was just curious if there was a difference and what that
17 really means.

18 MR. GRAY: Maybe the applicant could more fully
19 explain that than I could. Our main focus was the MEH
20 Equities Management Company, which is affiliated with
21 TEP and UNSE, but it is unregulated. So it is under the
22 overall UNS umbrella, but it is an unregulated
23 subsidiary. So what it does doesn't impact TEP and UNS
24 Electric.

25 MEMBER HAMWAY: Right, okay.

1 CHMN. CHENAL: All right. Mr. Jacobs, any
2 questions?

3 MR. JACOBS: I don't have any questions,
4 Mr. Chairman.

5 CHMN. CHENAL: Mr. Guy or Ms. Morrissey? I
6 guess, Mr. Guy, do you have any questions?

7 MR. GUY: We have no questions.

8 CHMN. CHENAL: Okay. Anything further of the
9 panel, Ms. Davis or Mr. Hains?

10 MR. HAINS: At the risk of, you know, possibly
11 making more questions here, but I had some questions
12 that I hoped might clarify or simplify some of the
13 things that everybody was struggling with here.

14

15 FURTHER DIRECT EXAMINATION

16 BY MR. HAINS:

17 Q. One was, you know, I appreciated some of the
18 inquiries with regard to the phase and synchronization
19 going two ways, and I will run the risk here of possibly
20 reasoning by analogy and having it blow up in my face
21 with a poor analogy. But in my mind, it seems to me
22 that one possible way of thinking is if you have locks
23 in a canal and you have to bring them up to a certain
24 level so that one is not at one level and the other is
25 different, so they just don't flow one way, that the

1 DC -- the AC to DC to AC conversion normalizes them for
2 whichever side it is going. It raises it to one level
3 that has to be higher going one way and lowers it to the
4 other level when it has to be lower going the opposite
5 direction.

6 Would that be a fair analogy? And is that
7 intelligible?

8 I realize those two might be mutually exclusive.

9 A. (BY DR. C-EMORDI) The engineer in me would have
10 preferred a different analogy, but I think that's fair
11 enough.

12 Q. And with regard to the nature of the Valencia
13 and the explanation that, even with the upgrades that
14 are being proposed as part of this application, that
15 disruptions at Valencia, Valencia still represents
16 something of a choke point for service into Nogales.
17 Would you agree with that characterization?

18 A. (BY DR. C-EMORDI) Currently, yes.

19 Q. Would you agree with the proposition that none
20 the less, this project does represent a major
21 improvement to the reliability proposition for Nogales?

22 A. (BY DR. C-EMORDI) Yes, it does.

23 Q. And you would agree that there are some
24 additional things that could further improve reliability
25 to Nogales?

1 A. (BY DR. C-EMORDI) Absolutely, yes.

2 Q. And those are the distribution level
3 improvements that you had indicated?

4 A. (BY DR. C-EMORDI) Yes.

5 Q. And because those would be at below 115kV level,
6 those would not typically require a CEC in order to
7 facilitate?

8 A. (BY DR. C-EMORDI) That is correct.

9 Q. With regard to -- there was a question about the
10 need burden. And not wanting to belabor that point, but
11 would you agree that ultimately what Staff's purpose is
12 to do was to develop a record that is amenable to and
13 consistent with how the Commission would evaluate the
14 application for it once a CEC is approved by the
15 Committee, and, to that extent, we are looking at, on
16 the need side, the need for reliable, adequate, and
17 economic, in this case, transmission?

18 A. (BY DR. C-EMORDI) That is correct, yes.

19 Q. And when you are referring to the need burden,
20 that's a shorthand way of referring to those three
21 aspects of the need evaluation?

22 A. (BY DR. C-EMORDI) Yes, especially with regard
23 to reliability from a technical standpoint, yes.

24 Q. So to the extent that you had indicated
25 to Member Hamway, I believe was the one that asked those

1 questions with regard to the need burden, those types of
2 questions you posed to the company with regard to
3 fleshing out those aspects, those were to flesh out your
4 analysis of, for example, the reliability or the
5 adequacy, as the case may be, is that --

6 A. (BY DR. C-EMORDI) That is correct.

7 Q. There was one question, and sometimes this was
8 something I mentioned when talking with Mr. Beck
9 yesterday about the OATT. And sometimes it is a little
10 like inside baseball. We know what we mean when we are
11 talking about the OATT but perhaps not everybody on the
12 Committee knows about it.

13 But it was a question posed to Mr. Gray with
14 regard to firm and nonfirm. And, you know, I just
15 wanted to clarify. So to the extent that the
16 opportunity for sales of firm power, and nonfirm power
17 both of them could present benefits, economic benefits
18 to TEP, UNS ratepayers through the respective adjuster
19 mechanisms for fuel and purchased power, is that
20 correct?

21 A. (BY MR. GRAY) That is correct.

22 Q. And with regard to firm power, that would be,
23 for instance, long-term contracting?

24 A. (BY MR. GRAY) Typically, yeah.

25 Q. And nonfirm would be things like spot purchases

1 and things like that?

2 A. (BY MR. GRAY) Generally, yeah.

3 CHMN. CHENAL: Member Jones.

4 MEMBER JONES: When you are talking about firm
5 and nonfirm, doesn't it also refer to renewables such as
6 photovoltaic, which is one of the sources that was
7 mentioned, versus hydroelectric, which would be
8 considered a firm?

9 MR. GRAY: Certainly, when utilities are
10 contracting for power, they take into consideration time
11 of generating resource. And if you are contracting for
12 renewables, that will have a different set of
13 characteristics than hydro or natural gas or something
14 else, yes.

15 MEMBER JONES: Thank you.

16 BY MR. HAINS:

17 Q. But in any event --

18 No other question?

19 MEMBER JONES: Yes, that answered my question.

20 BY MR. HAINS:

21 Q. In any event, so when we were talking about the
22 opportunity and benefits of being able to contract for
23 those, and that is, you know, what the customer is
24 looking for if they want firm power, to the extent that
25 TEP, UNS, or some other entity that could make use of

1 these facilities could be in a position to offer power
2 under a firm basis, could make a commitment to allocate
3 a certain amount of generation for a certain period of
4 time, that would be the firm types of contracts they
5 could -- firm sales they could make?

6 A. (BY MR. GRAY) Yes.

7 Q. And a nonfirm would be just as needed; if they
8 had some spare power, some generation that was
9 available, and then perceive a peak need on one side of
10 the border and one utility has spare power to sell and
11 the economics favor a sale, would that fall within the
12 nonfirm type?

13 A. (BY MR. GRAY) Yes. And I mean it goes all back
14 to the market liquidity, and that TEP and UNS will have
15 access to a broader market to buy and sell in than they
16 do now.

17 Q. And the only other one that I wanted to address
18 was with regard to there was some questions with regard
19 to when there is some scrutiny for investment that are
20 made that are flowed through into the OATT, and Staff
21 and Commission attention to those and Staff
22 participation in those.

23 Are you aware or agree Staff can and has at
24 times intervened in and participated in OATT proceedings
25 for various electric utilities in Arizona?

1 A. (BY MR. GRAY) Yes. I am directly knowledgeable
2 about that. We have been involved in APS filings, and I
3 think we even currently are involved in their current
4 filing at FERC.

5 Q. Okay. And certainly Staff can and could
6 intervene, you know, under appropriate circumstances in
7 TEP or UNS's OATT proceedings, if necessary?

8 A. (BY MR. GRAY) Certainly, yes.

9 Q. If something that appears untoward inside the
10 rate recovery and various rate cases were becoming
11 apparent, that certainly might be something that would
12 indicate to Staff and the Commission that perhaps
13 intervention may be necessary?

14 A. (BY MR. GRAY) Correct.

15 MR. HAINS: Thank you. That's all the questions
16 I had.

17 CHMN. CHENAL: All right. I want to thank
18 Dr. Emordi and Mr. Gray and Ms. Davis and Mr. Hains. I
19 don't know if I -- I assume I speak for the Committee,
20 but I certainly want to thank -- I think it is always
21 helpful to have this perspective of Staff from the ACC
22 in these cases. And it is very much appreciated.

23 Okay. I guess the panel is excused, unless
24 there are any further questions from the panel or from
25 any of the parties.

1 (No response.)

2 CHMN. CHENAL: Thank you very much.

3 The last aspect I guess, Mr. Guy, is some
4 potential redirect. Would you like a 10-minute break
5 here at this time to regroup before we begin the last
6 phase of the hearing?

7 MR. GUY: That would be helpful. Thank you.

8 CHMN. CHENAL: Okay, good. Let's take a
9 10-minute break.

10 (A recess ensued from 4:06 p.m. to 4:21 p.m.)

11 CHMN. CHENAL: All right. We are ready to
12 resume the afternoon session.

13 Mr. Guy.

14 MR. GUY: I am ready.

15 CHMN. CHENAL: Okay. Please proceed. And
16 Ms. Morrissey.

17 EDMOND BECK and MATT VIRANT,
18 recalled as witnesses on behalf of the Applicants,
19 having been previously duly sworn by the Chairman to
20 speak the truth and nothing but the truth, were examined
21 and testified as follows:

22

23 DIRECT EXAMINATION

24 BY MR. GUY:

25 Q. Mr. Beck, were you in the room earlier when the

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1 environmental panel was testifying?

2 A. (BY MR. BECK) Yes, I was.

3 Q. Members of the environmental panel were asked
4 questions about UNSE's selection criteria for monopoles.
5 Do you recall those questions?

6 A. (BY MR. BECK) Yes, I do.

7 Q. Could you describe how UNSE decides on what type
8 of pole to use?

9 A. (BY MR. BECK) Well, as I testified on the
10 record, our preferred and standard option is to use the
11 weathering steel poles.

12 But very specifically associated with this case,
13 in Case 144 -- just to clarify for the record, I think I
14 inadvertently earlier in testimony mentioned Case 147.
15 It should have been 144, which was the project from
16 Kantor-South, as well as the short piece from the
17 Nogales Tap up to the Vail substation.

18 During the CEC process for that line project,
19 the Committee, and ultimately the Commission, ordered
20 UniSource Energy to create a pole finish plan for that
21 project because very specifically the color of poles was
22 a big issue for the project.

23 And so we were ordered to, within 30 days of the
24 final order for the CEC, submit a pole finish plan
25 indicating where dull galvanized poles would be used

1 versus weathering steel. Part of the requirement was
2 that the plan was to be provided to all landowners
3 within 500 foot on either side of the centerline of the
4 proposed line, and the public would have 30 days to
5 raise any objections to the selection of the pole
6 finish.

7 Through the process we also had a citizens
8 advisory committee for the project comprised of citizens
9 in the area. They had input to the pole finish plan.
10 The plan that we filed with the Commission showed the
11 use of the dull galvanized steel poles along the
12 interstate, along Interstate 10, to better match up with
13 all of the highway posts, signs, as well as existing
14 lattice structures in that stretch.

15 Everything from the point of intersection with
16 Wilmot Road to the south we identified as weathering
17 steel. And that is what we built. It was shown on
18 the -- you saw some of them today on the tour, those
19 that were on the tour. And so the end result of our
20 discussions and the filing of that plan were no
21 objections to using weathering steel for the stretch of
22 line going south all the way to Nogales.

23 I think Ms. Alster, who is with Pima County --
24 we have had ongoing discussions with her in the past
25 about pole color. And we basically agree to disagree.

1 She likes a lighter colored pole for various reasons.
2 And we like the weathering steel because of the
3 maintenance issue.

4 But when we went through the process with
5 Case 144 with the citizens advisory committee, what they
6 recognized was, as you look at the mountains as a
7 backdrop, the brown poles tend to fit in better than the
8 lighter gray poles. And again, it all depends on the
9 lighting, what type of day you are looking at it and
10 weather conditions. And, of course, here is mostly
11 sunny. We are looking at the mountains with a dark,
12 typically a dark bluish-greenish background. And the
13 weathering steel poles tend to blend in.

14 So that's how we ended up with Corten weathering
15 steel on the existing line. And we feel that same
16 decision should continue applying to the rest of the
17 line.

18 MR. GUY: Thank you, Mr. Beck.

19 MEMBER HAMWAY: I have a question.

20 CHMN. CHENAL: Member Hamway.

21 MEMBER HAMWAY: Thank you, Mr. Chairman.

22 So I can see you can agree and disagree. I had
23 a situation where I did lighting at a ball field, and we
24 had the same kind of analysis where we put up the Corten
25 and we put up galvanized, and they ended up on the

1 galvanized. And it was a tough decision. I mean there
2 is contradictions.

3 So do you have any galvanized poles? Your
4 company standard is the weathering steel pole.

5 MR. BECK: Our current standard is weathering
6 steel to the extent for transmission that gets approved
7 through the CEC process. If we are ordered to build
8 something out, we will. So we do have galvanized. As I
9 mentioned, we have galvanized on the Case 144 line along
10 the interstate. They are dulled galvanized so they are
11 not bright and shiny. They are kind of a more gray
12 color.

13 We did put galvanized poles along Interstate 10
14 between Speedway and Grant with a project we did a
15 couple of years ago. That was with strong input from
16 the community, the neighborhood associations, that they
17 wanted to match the lighting structures along the
18 freeway. So it made sense there to do that, so we do
19 have galvanized there.

20 And then in the past, and if we have to replace
21 poles in a given area where we have painted poles, we do
22 put painted poles in. Our problem with painted poles is
23 that they don't last in the sun here.

24 MEMBER HAMWAY: Right.

25 MR. BECK: So five to ten years down the road

1 what started as a very -- our standard was a dark,
2 called it Mohave Sage. It was a dark green color.
3 Through a long extended process of analysis with input
4 from public, that was the color selected back in the
5 '80s. But we put those poles in on a lot of our system,
6 and those poles today, where they haven't been
7 repainted, are basically white. They chalk down to a
8 white color and/or rusting.

9 The cost to go back and repaint those poles is
10 very extensive. There are no environmental rules
11 regarding the removal of paint, which adds a bunch of
12 costs to that repainting process.

13 MEMBER HAMWAY: I would never suggest painting.

14 MR. BECK: Okay.

15 MEMBER HAMWAY: So one other quick question. So
16 when was Case 144, how many years ago?

17 MR. BECK: 2008, 2009.

18 MEMBER HAMWAY: So ten years -- eight or nine
19 years ago?

20 MR. BECK: We constructed the project; it was
21 completed in 2014.

22 MEMBER HAMWAY: Okay. So is there a big cost
23 differential between galvanized, the matte galvanized
24 versus the weathering steel?

25 MR. BECK: I believe the last number I saw was

1 about a 20 percent increased cost due to the galvanizing
2 and dulling process.

3 The other issue that we have with galvanized
4 and/or painted poles is, if we do have to do any
5 modifications of a pole, then you have to do special
6 things to accommodate that, whereas with a weathering
7 steel, you can cut a pole, weld pieces in. As long as
8 you use weathering steel for the replacements, it will
9 all match patina-wise after you are done.

10 MEMBER NOLAND: Mr. Chairman.

11 CHMN. CHENAL: Member Noland.

12 MEMBER HAMWAY: Thank you.

13 MEMBER NOLAND: I was on this Committee for that
14 case. And it was really a very big point of contention
15 with the neighbors. There were many more close
16 neighbors on portions of that line than there are on
17 this case. And so we did ask TEP to work with them and
18 to allow their input. And I think the proof is in the
19 pudding. They decided to do and wanted the Corten. So
20 I would think that we would want to continue on with the
21 same type of pole.

22 You know, we heard from one person. And this
23 was many, many people that made that decision. So I
24 think I would have to agree to disagree also and say
25 that I think we ought to allow the best option, the most

1 affordable and sustaining option that TEP has the
2 experience of using.

3 MEMBER WOODALL: And Mr. Chairman, I agree with
4 the comments of Member Noland.

5 CHMN. CHENAL: Yeah, part of the exercise of
6 making a record. But my sense is there is no one --
7 that we are in agreement with the sentiments expressed,
8 but just to make the record, I think it is important we
9 ask the questions and appreciate that we have done that.
10 So if there are any other further questions --
11 Member Haenichen.

12 MEMBER HAENICHEN: Not on this issue.

13 CHMN. CHENAL: Well, I know Member Haenichen has
14 some. You still have some more questions of, Mr. Guy,
15 of Mr. Beck?

16 MR. GUY: I do, in different topics. And we
17 have another topic of structures.

18 CHMN. CHENAL: Okay. Member Haenichen.

19 MEMBER HAENICHEN: Mr. Beck, I am referring now
20 to the panel just before you got into that table. And
21 you will probably recall the question I asked Mr. Gray
22 about, to give an opinion on what he thought was the
23 more valuable feature of this project, was it either the
24 enhanced reliability and capacity to the City of
25 Nogales, or whether it was the opportunity to do deals

1 with Mexico and bilateral flow of electricity, which has
2 the attendant problem of this phase mismatch which you
3 propose to correct with the DC converter, and he
4 referred to that as speculative.

5 Now, that's just his opinion. I understand
6 that. But my question really revolves around you
7 indicated in your testimony yesterday, I believe it was,
8 that the bulk of the cost of the southern part of this
9 project was the DC conversion system. And I thought
10 that was the case and you confirmed it.

11 So if for the moment we say, well, this is
12 speculative, who's going to pay for that portion of the
13 cost? I mean, is Mexico going to get a big advantage
14 potentially from this? And I guess I am concerned about
15 whether or not that's a really important part of the
16 project. So I want you to weigh in with your opinion on
17 the importance of that portion of the use of this
18 project.

19 MR. BECK: I think I will provide three answers
20 to that.

21 MEMBER HAENICHEN: Okay.

22 MR. BECK: One is that I have been involved in
23 trying to get a project to Mexico for 20 years. So I
24 have a vested interest in seeing something get
25 completed. So I think it has value.

1 But from a reliability perspective, it has a
2 great value to, in particular, UNS Electric, but also to
3 TEP ultimately. And the way that the project is
4 structured, the cost to our ratepayers of putting this,
5 the facilities, in to support the project should be
6 ameliorated by the flow-through on the system. And so
7 they will get the benefit of the reliability, but not
8 really see a cost increase on their bills. That, for
9 the majority of that cost, will be paid for by the
10 flow-through users of the system, the DC tie.

11 MEMBER HAENICHEN: Okay. Well, so are you
12 saying that the fact that we have the ability to
13 exchange energy with Mexico because of this DC system
14 that's in place enhances the reliability of the system
15 in the United States? Would you explain how that
16 happens?

17 MR. BECK: Well, there are two components to it.
18 One is just the upgrade of the 27 and a half miles of
19 line, as well as the reconfiguration and creating a
20 Gateway 138kV substation will have benefits to UNS
21 Electric absent the DC component, but we will not
22 attempt to build those absent the DC component because
23 of the cost. The cost is too great to put it on the
24 existing users in Santa Cruz County. So by adding 150
25 megawatts of use, it takes care of the cost issue, so we

1 get that reliability benefit on the UNSE specific
2 system.

3 Secondarily, having a tie to Mexico with the
4 ability to do business with Mexico, especially in an
5 emergency, brings a reliability benefit to the system to
6 the north, both UNSE as well as potentially TEP. Should
7 we have issues north of Tucson on the transmission
8 system, we do have another potential small resource from
9 Mexico.

10 MEMBER HAENICHEN: But didn't you testify
11 yesterday that the cost of the upgrade portion compared
12 to the DC was much, much smaller? So why would that be
13 a tremendous burden on the ratepayers?

14 MR. BECK: Because the ratepayer -- the load
15 pocket in Santa Cruz County is roughly 85 megawatts
16 peak. And so whatever we spend on transmission assets
17 gets spread over only 85 megawatts. And so if we put in
18 the \$40 million, approximately, of upgrades to 85
19 megawatts, that's a big hit to the customers. The DC
20 tie, roughly \$80 million, is over double that amount.
21 So of the 80 million, the bulk of that was DC tie, but
22 there is also the 30 million upgrade piece.

23 MEMBER HAENICHEN: I understand that.

24 MR. BECK: So the big benefit is that, by having
25 the DC project providing a lot more use of our system,

1 it is diluting the cost that the current ratepayers
2 would see on their bills.

3 And I said I would get three answers. The third
4 answer is from a MEH standpoint, wearing that hat, we
5 are looking at the DC project, the tie project, as
6 providing benefits as an investment on the unregulated
7 side.

8 So there is the reliability benefit to systems
9 to the north. There is an investment benefit,
10 hopefully, from the project. But none of the upgrades
11 that we are proposing, we will not move forward with any
12 of the upgrades that are being proposed unless there is
13 commitment to that DC project. And to make the DC
14 project go forward, there will need to be longer term
15 commitments from users, whether they be from the U.S.
16 side or from the Mexico side, to make it financable and
17 doable.

18 So we have to meet of threshold which, as you
19 heard from the solicitation process, sounds pretty
20 promising that there is strong interest in the project.
21 So if those people actually turn that interest into
22 commitments, and we can get the bulk of that 150
23 committed for, you know, maybe 20 years or more, then we
24 would move forward with the project. We would do the
25 upgrades, and then the UNSE customers realize the

1 benefit of the reliability improvement but don't see the
2 hit to costs because we have basically tripled the
3 flow-through that's being used in the calculation of the
4 rate.

5 MEMBER HAENICHEN: That's a very good
6 explanation, and it helps me a lot to understand it.
7 Thank you.

8 MR. GUY: Mr. --

9 MR. BECK: Maybe just to touch on one other
10 point raised earlier is the question of why we need the
11 DC tie for our project, yet in San Luis they don't.
12 What you have to realize is those loads are isolated
13 loads. They are not tied to the Mexico grid.

14 MEMBER HAENICHEN: I understood that
15 explanation. But my question was really a technical
16 one. I wanted a little bit more amplification how that
17 works, and she kind of blew me off a little bit.

18 MR. BECK: Just similar to the San Luis, UNSE
19 did have a load at Lochiel, a small town east of
20 Nogales. And we served that load because CFE doesn't
21 have the power to bring up to the little town. We
22 served it for many years. They built a transmission
23 line that brought power to Lochiel. We had to open up
24 our connection to them. We left the line there.

25 We have a Presidential Permit, but it is

1 strictly for emergency purposes. So if the transmission
2 on their side were lost, we could serve their load. If
3 transmission on our side to some customers right at the
4 end of that line near Lochiel, if that line goes down,
5 we could provide -- close the switch and get some power
6 from CFE, so...

7 MEMBER HAENICHEN: That is very nice of you.

8 BY MR. GUY:

9 Q. Mr. Beck, let me back up to right before you
10 were talking about the San Luis load. And you were
11 talking about the benefits to reliability of the DC tie
12 and the upgrades where the ratepayers are having to bear
13 the full cost of those upgrades. There were also
14 questions of the panel related to that, perhaps from
15 Member Jones.

16 But could you describe for us, separate from the
17 DC tie, how the existence of the new Gateway 138 station
18 would provide UNSE opportunities to improve reliability
19 in the future?

20 A. (BY MR. BECK) Sure. I think to some degree
21 that was addressed by the Staff witness that, to the
22 extent the Gateway substation exists -- and again, if it
23 is paid for kind of by other means so that the full cost
24 doesn't go to the UNSE ratepayers, once it exists,
25 adding distribution to that substation is relatively

1 easy and straightforward. There are some cost
2 components to it, but it is basically putting a
3 transformer in and extending some feeders out from that
4 substation to pick up some of the load that today is
5 served strictly in the Valencia substation.

6 So in the longer term there is that additional
7 benefit, which isn't realized immediately with this
8 project, but it is something that is on UNSE's radar to
9 be looking at, when and how do we expand that substation
10 to be a distribution-serving substation in addition to
11 Valencia. And ultimately, if we could split half of the
12 load between the two substations and have enough looped
13 system there, it would greatly improve our reliability.

14 Q. Let me stay on sort of the detailed technical
15 stuff. And this may not matter because I think it was
16 actually addressed by Staff.

17 When you met with Dr. Emordi and sort of
18 explained the technical study, the system impact study,
19 did she accurately describe the study from your
20 perspective, number one? And I guess number two, since
21 we met with them, have you learned some differences
22 about the study?

23 A. (BY MR. BECK) Yes, she accurately described the
24 study that we provided to, well, in this case as well as
25 to Staff. And that was our system impact study. And in

1 that system impact study we did identify a slight
2 increase of 1 percent on an overload issue on the
3 Western Area Power system.

4 Subsequent to filing the documents, we did
5 provide the study to Western. And it kind of raised
6 Western's eyebrows, why are you seeing an overload, we
7 are not seeing it. So they worked with us, went through
8 what we had in our base case, and identified that we had
9 some generation at Saguaro that they felt should have
10 been at a lower level, and showed the true operational
11 numbers that are less than what was put into the base
12 case.

13 It is a bit of a problem internally or in our
14 region, which Staff will probably be interested in, in
15 that the base case, when we develop these studies we use
16 a base case that's developed throughout the industry.
17 So all the entities basically in Arizona get together,
18 take the WECC case, which is a case that covers all of
19 the Western interconnection, and then they tweak their
20 pieces of that case to identify any peculiarities in
21 their system that they want to be used by all parties
22 when we do studies. We were relying on the generation
23 levels that APS had identified. And based on the
24 Western input, those numbers probably were a little too
25 high.

1 So we reran the study and we identified that,
2 with that lower level of generation at Saguaro, in fact
3 there is no overload showing up. And so we are
4 finalizing a revised version of the study which we will
5 be sharing with anybody who wants to see it, but
6 specifically Staff as well as DOE, to show that the
7 Western Area Power issue is a nonissue.

8 Q. So the bottom line in that is 1 percent is an
9 acceptable overload from an engineering perspective, but
10 what you have since learned, it is not even that high,
11 it is even lower than 1 percent. Is that the final --

12 A. (BY MR. BECK) There is, effectively, there is
13 no overload based on the revised generation.

14 And, you know, it is a matter of is 1 percent
15 acceptable from a planning perspective, engineering
16 perspective. Anything within a 5 percent range, that's
17 probably the validity of your studies. But nobody likes
18 to see something that's over 100 percent. And so that
19 was, of course, Western's concern.

20 Q. The only other question, I think, or line of
21 questions, unless you want to get into different phases,
22 why Mexico may have a different phase -- I will let you
23 volunteer if you want -- the only other question, I
24 believe there were questions about structures near the
25 washes and how the new structures may compare to --

1 height and spans may compare to existing structures from
2 Member Riggins.

3 A. (BY MR. BECK) Yes, I remember that question.
4 And to the extent we were to raise a pole out of the --
5 out of a wash area with a concrete foundation, that will
6 be taken into account in the design of the pole height.
7 So we will adjust the pole height accordingly.

8 And, you know, we look at the, I think to your
9 point, the grading of the structures. So typically the
10 grading structures is you want to have the top of the
11 structures in a fairly straight line so you don't see
12 this up and down meandering of pole heights. So that is
13 part of our design criteria.

14 Q. Thank you.

15 A. (BY MR. BECK) There was one other question
16 regarding pole heights. And I have been informed that
17 the existing line ranges from 83 and a half feet to
18 95 foot tall structures on the upgrade portion. And in
19 our application we are indicating 75 to 110 feet for the
20 new structures.

21 So worst case, they could be 15 foot higher.
22 The likelihood that we would be at that high end of the
23 range is pretty small. I mean we wanted to be sure we
24 were covered. So we are probably going to be very
25 similar, if not even a little shorter than most of the

1 poles that are out there today.

2 MR. GUY: Thank you.

3 And yeah, those were all the questions I had for
4 Mr. Beck, at least in my notes. So if any Committee
5 member wanted to hear something else from him that I
6 haven't asked, it was unintentional and my notes don't
7 reflect it.

8 A couple questions for Mr. Virant.

9 BY MR. GUY:

10 Q. Mr. Virant, do you recall some questions when
11 you provided testimony about whether there were any
12 affiliates of Hunt Power that had ownership of
13 generation? Do you recall those questions?

14 A. (BY MR. VIRANT) Yes.

15 Q. And were you able to look into that, and do you
16 have additional information you can share?

17 A. (BY MR. VIRANT) Yes, we have. No changes to
18 the answer, not aware of any generation or involvement
19 with generation by Hunt entities in Arizona, as I
20 responded to the question, probably incorrectly for the
21 question that was asked, also true of the United States.
22 And there is Hunt entities, or there is a Hunt entity
23 that has interest in generation, but it is in South
24 America.

25 Q. And --

1 CHMN. CHENAL: Member Hamway.

2 MEMBER HAMWAY: So when you have an open
3 solicitation, is it international or just a U.S.
4 solicitation?

5 MR. VIRANT: Well, it is a solicitation for the
6 transmission capacity within the U.S.

7 MEMBER HAMWAY: Right.

8 MR. VIRANT: Or under FERC, Federal Energy
9 Regulatory Commission's jurisdiction. The principles of
10 that solicitation and the practices for these merchant
11 projects would allow any entity to participate in that
12 provided they meet the screening criteria of the
13 solicitation.

14 I think if I were trying to tie this response
15 back to my last question, the potential involvement of a
16 wind farm in Costa Rica in this open solicitation, it
17 isn't possible.

18 And further, in the petition for declaratory
19 order and the filings with FERC, we have stated that no
20 affiliate of Nogales operations would be participating
21 in the open solicitation. So I know that wasn't your
22 implication by your question, but if I were to try and
23 tie those concepts together, just because they were near
24 each other, that would be the full response.

25 MEMBER HAMWAY: Thank you. Actually, that was a

1 question in my head. I just didn't ask it.

2 MR. VIRANT: Very good.

3 CHMN. CHENAL: I want to ask a follow-up
4 question here. Is the same true for UNSE, are they a
5 possible part of this -- partner in the solicitation or
6 make a bid in the solicitation?

7 MR. BECK: Because of the FERC rules and the
8 firewalls that we have between the different parts of
9 our organization, I am not privy to what our marketing,
10 what we call our marketing side is doing. We do know
11 they are aware of this open solicitation, and they had
12 indicated that they would be looking at it. And our
13 expectation is it would make sense for them to do it.
14 But whether they have or submitted I do not know.

15 CHMN. CHENAL: Thank you.

16 Member Jones.

17 MEMBER JONES: I just wanted to be sure we were
18 clear on this. Is it conceivable that a Mexican entity,
19 having met all of the FERC requirements, could solicit
20 and receive or participate?

21 MR. VIRANT: Yes. An entity based in Mexico,
22 located in Mexico, a Mexican entity could acquire
23 transmission capacity in an open solicitation. That
24 would be very similar to their ability to acquire
25 transmission capacity on any electric system in the U.S.

1 So yes, it is true, but it is not unique to this
2 project.

3 MEMBER JONES: Okay. Thank you.

4 CHMN. CHENAL: Thank you.

5 BY MR. GUY:

6 Q. And Mr. Beck, Mr. Virant, just a follow-up on
7 the Chairman's question. Mr. Beck, you mentioned you
8 are not aware of whether, because of the firewalls,
9 whether any affiliate of UNSE or TEP has participated in
10 the open solicitation. But I just want to make sure to
11 clarify there is nothing that would prohibit them doing
12 so; in fact, they are the type of entity that could be
13 interested in participating in the open solicitation?

14 A. (BY MR. BECK) Absolutely, nothing that would
15 restrict them. And, in fact, if I were on the side, I
16 would be very active in looking at the open
17 solicitation, so...

18 Q. Mr. Virant, I had one more question. In your
19 slides, one of the potential benefits you listed for the
20 project was that it is an opportunity for increased
21 economic development, I believe. And I think you may
22 have had some questions regarding the basis of that
23 potential benefit. Have you had a chance to sort of
24 figure out where that came from?

25 A. (BY MR. VIRANT) I have consulted with others

1 and reviewed the DOE's environmental assessment. That
2 information is provided in section 4.8 on
3 socioeconomics. There are several socioeconomic factors
4 that aren't affected. Those were found to be
5 population, housing, and tourism. However, there were
6 two factors that they listed as having positive impacts,
7 employment and taxes and revenues.

8 There is plenty of detail in this section, but
9 in general, section 4.8.2.2 is with regard to common
10 impacts across all the alternatives. And it finds that
11 in the employment and income category, there would
12 likely be 30 to 50 construction jobs created as a result
13 of the Nogales interconnection project, which would also
14 have positive multiplier or spillover effects as they
15 work down in the area. Similarly, in taxes and revenue,
16 they found that there would be benefits to the study
17 area as it relates to property taxes, sales taxes, and
18 other income related to it.

19 And then just to close out, one thing I should
20 have mentioned at the very beginning, the area studied
21 was Santa Cruz County. So that was the area of
22 analysis.

23 CHMN. CHENAL: Member Woodall.

24 MEMBER WOODALL: I have the section which you
25 very kindly pointed out to it, and there was a reference

1 in there to taxes on the sale of electricity. And you
2 will recall that I inquired of Mr. Gray whether or not
3 he was aware if there were any sales taxes on sales of
4 electricity. Do you know that?

5 MR. VIRANT: As a matter of fact, I do not.

6 MEMBER WOODALL: Okay, that's fine.

7 MR. VIRANT: I do have a CPA, but I have to
8 admit I took the tax section more than once.

9 MEMBER WOODALL: I was just wondering if there
10 would be an additional economic benefit, that there
11 would be some sales taxes that would accrue to the State
12 of Arizona. That's all I was getting at. I understand
13 property taxes.

14 Mr. Beck.

15 MR. BECK: I don't know the specifics of the tax
16 laws, but as we all know, everything gets taxed. And I
17 suspect that whether or not the actual transaction is
18 taxed directly, any income that is received by the
19 entities will be taxed and it would show up there.

20 MEMBER WOODALL: Well, if it is an Arizona
21 entity, that's a good thing. If it is a California
22 entity, maybe that's not quite as good. So, okay, thank
23 you.

24 MR. GUY: Mr. Chairman, I believe that's all the
25 questions we have.

1 CHMN. CHENAL: Any follow-up questions by the
2 Committee?

3 Any follow-up questions, Mr. Jacobs?

4 MR. JACOBS: No, I don't.

5 CHMN. CHENAL: Any follow-up questions,
6 Ms. Davis or Mr. Hains?

7 MR. HAINS: No, not from Staff. Thank you.

8 CHMN. CHENAL: Okay. Very good. We made great
9 progress. I think tomorrow it will make sense to start
10 with the closing arguments. To the extent there will
11 be, I don't think they will be that long. That is one
12 thing that, you know, I think we can put off to
13 tomorrow. I think it will give you an opportunity to
14 prepare for it. And then we can move into the
15 deliberations.

16 Two issues that I think we should talk about
17 right now, at least that come to mind, and anything else
18 anyone else wants to bring up.

19 Number one, we haven't had a formal stipulation
20 on the record as far as the agreement that seems to have
21 been reached between State Land Department and the
22 applicant with regard to the Alternative 2, which was
23 not the preferred route for the upgrade portion.

24 Has an agreement been reached? Is there any
25 issue as far as that goes in connection with the CEC,

1 Mr. Jacobs?

2 MR. JACOBS: I can speak to that.

3 Yesterday you also spoke about getting the Land
4 Department's exhibits in the record, so I have -- we
5 can, I can get those in the record because I also have
6 an additional exhibit, which both is the Land, the
7 Deputy Land Commissioner's affirmation of the exhibits
8 that were already filed, and his affirmation that the
9 agreement as Mr. Beck stated yesterday is the Land
10 Department's understanding of the agreement, and that,
11 based on that agreement, the department will support the
12 CEC application.

13 CHMN. CHENAL: And that would be Alternative 2
14 for the upgrade route, is that correct?

15 MR. JACOBS: Correct. It is two paragraphs. I
16 can read that into the record as well, if you would like
17 me to.

18 CHMN. CHENAL: Short paragraphs?

19 MR. JACOBS: It is about three-quarters of a
20 page.

21 CHMN. CHENAL: Well, I tell you what. Why don't
22 we make it an exhibit. How many exhibits will you have
23 if we include that as an exhibit?

24 MR. JACOBS: There is 1, 1-A, 1-B, and 2. That
25 would be 2.

1 CHMN. CHENAL: Okay. And you have summarized
2 the substance of the agreement, correct?

3 MR. JACOBS: Correct.

4 CHMN. CHENAL: Okay. Let's introduce your
5 exhibits and see if there is any objection. First of
6 all, has anyone seen them? Has the applicant or the ACC
7 Staff, have they seen these?

8 MR. JACOBS: I discussed with counsel for the
9 applicant. ACC Staff has not seen them.

10 CHMN. CHENAL: And that's the last -- the
11 affirmation you are talking about? Because you
12 introduced --

13 MR. JACOBS: 1, 1-A, 1-B have been filed and
14 served.

15 CHMN. CHENAL: Correct.

16 MR. JACOBS: So it is just Exhibit 2, which only
17 counsel for the applicant has seen.

18 CHMN. CHENAL: All right. Let's do this. Let's
19 see if we can get 1, 1-A, 1-B admitted, and just review
20 that Exhibit 2 with both parties. And assuming there is
21 no objection, we will get that admitted tomorrow. Okay?
22 Is that fair? Because I want to make sure that Staff
23 has no objection to it. I don't think they will if it
24 is acceptable to the applicant, but...

25 MR. HAINS: Chairman, on behalf of Staff, since

1 this isn't our issue and so long as it is a happy
2 agreement between the applicant and State Land, I don't
3 think we actually have any objection to it. I would
4 like to see a copy of it at some point, but I don't
5 think we would have any objection to its admission.

6 CHMN. CHENAL: Okay. And does the applicant
7 have any objection to any of the exhibits?

8 MR. GUY: No. I think we have seen an e-mail
9 version, so assuming the paper version matches the
10 e-mail version, we don't have any objection to it
11 whatsoever.

12 CHMN. CHENAL: Do you have extra copies,
13 Mr. Jacobs?

14 MR. JACOBS: I have got 15 copies here. I can
15 run them around if you would like me to.

16 CHMN. CHENAL: I believe we have already -- why
17 don't you do that, and then let's get them admitted.

18 MR. JACOBS: Okay.

19 CHMN. CHENAL: Yes, Member Woodall.

20 MEMBER WOODALL: Mr. Beck, have you made an
21 application for right-of-way and the route that the Land
22 Department prefers yet?

23 MR. BECK: We have not made that yet, but we
24 will be working on that. And I believe that's mentioned
25 in this document.

1 MEMBER WOODALL: Okay. So it would be pretty
2 soon.

3 MR. BECK: It would be relatively soon. And
4 there is an indication from State Land that they will
5 work to process it expediently.

6 MEMBER WOODALL: Thank you.

7 MR. GUY: Sorry for the delay, Mr. Chairman.
8 The applicant reviewed the three exhibits and we have no
9 objections.

10 CHMN. CHENAL: Okay. So Mr. Jacobs, you are
11 moving for admission of SLD-1, SLD-1-A, SLD-1-B, and
12 SLD-2, is that correct?

13 MR. JACOBS: That's correct.

14 CHMN. CHENAL: And SLD-2, on pages -- the bottom
15 of page 2 and top of page 3 of SLD-2 basically
16 summarizes the agreement that has been reached between
17 State Land and the applicant, is that correct?

18 MR. JACOBS: That's correct.

19 CHMN. CHENAL: Okay. And is the applicant in
20 agreement with what is represented in SLD-2?

21 MR. GUY: We are.

22 CHMN. CHENAL: Okay. So any objection to
23 admission of SLD-1, SLD-1-A, SLD-1-B, or SLD-2?

24 (No response.)

25 CHMN. CHENAL: Okay. Hearing no objection,

1 SLD-1, SLD-1-A, SLD-1-B, and SLD-2 are admitted.

2 (Exhibits SLD-1, SLD-1-A, SLD-1-B, and SLD-2
3 were admitted into evidence.)

4 MR. JACOBS: Thank you.

5 CHMN. CHENAL: I guess I will throw this out. I
6 don't know that there is anything we need to include in
7 the CEC specific as to the agreement, other than to note
8 that we will talk about the route in a second and how we
9 define it, but I am not thinking we have to somehow
10 capture the stipulation or agreement inside the CEC. We
11 will simply, you know, vote on the CEC with the routes
12 set forth, and I am not sensing a need to treat, in the
13 CEC, the agreement, unless anyone disagrees.

14 MR. JACOBS: No, I agree.

15 CHMN. CHENAL: Okay. So the next issue, the
16 last issue I had was I think something that Mr. Guy and
17 I just spoke briefly during the recess, is what is the
18 preference of the Committee in terms of the description
19 of the route. We had talked earlier whether it be legal
20 description and/or GPS coordinates. There was a
21 discussion about trying to come up with a legal
22 description of the route.

23 And I guess I just open it up for discussion as
24 to what progress has been made, whether there has
25 been -- we have a legal description for the proposed

1 route and what the preference of the Committee might be.

2 Mr. Guy.

3 MR. GUY: We do --

4 MEMBER WOODALL: I just wanted to say it must be
5 my five years of working with engineering firms, but I
6 concur with Mr. Beck, that I would prefer a legal
7 description. I think it would be easier for landowners
8 as well. That's my personal preference.

9 MR. GUY: Well, and I will confirm that that is
10 an option. We were able to, UNSE Staff was able to
11 prepare a legal description. And the legal description
12 is the centerline of a route, and then asking for a
13 thousand-foot corridor.

14 So we have a legal description of a centerline
15 for both the Nogales interconnection project and the
16 Nogales Tap to Kantor project. Now, the Nogales Tap to
17 Kantor is actually the current line, but then with the
18 corridor, they would be allowed to construct anywhere
19 within that corridor.

20 MR. JACOBS: May I inquire? Are you
21 anticipating having a schematic depicting the route as
22 an Exhibit A? Has that been contemplated, Mr. Beck?

23 MR. BECK: We do have both available. And to
24 the extent the Committee would like to see the map
25 version in there, it can be provided.

1 MEMBER WOODALL: I am just thinking that we
2 have, in other CECs, we have provided legal. And then
3 for the uninitiated into metes and bounds, we have had a
4 diagram that was appended to the CEC. So, personally, I
5 think that would be helpful. But I will defer to the
6 wish of the majority.

7 MR. GUY: And if I may, just to be clear, the
8 diagrams that we have, which I guess would be our
9 preference, as opposed to creating a new diagram this
10 evening, but we have the two exhibits -- and I don't
11 recall the numbers -- that were circulated yesterday
12 that have the GPS coordinates with the corridor. That's
13 probably the most precise diagram and most descriptive
14 diagram we have from a map perspective.

15 But then we also have the maps that we have been
16 using during the hearing that are not nearly as
17 detailed, don't have the GPS coordinates, but they would
18 be akin to a schematic to show you geographically where
19 the lines are. And so I think you have seen all the
20 diagrams we have.

21 MEMBER WOODALL: I personally find the legal
22 description to be more important, and the level of
23 detail that is in the schematic is not a significant
24 issue for me.

25 CHMN. CHENAL: I agree, although I don't see

1 that -- I mean I think to have both would be helpful. I
2 mean put me in the class of the uninitiated. I can read
3 a legal description until I am blue in the face. I get
4 a lot more looking at a map, frankly. So if there is no
5 objection --

6 Member Noland.

7 MEMBER NOLAND: Mr. Chairman, I would prefer
8 that we have both the legal and then attach the corridor
9 maps that you used with the GIS.

10 CHMN. CHENAL: Yeah, I would, too. I think
11 that's what we would prefer. I think it is good to have
12 both, frankly. So I applaud the applicant for pulling
13 together a legal description in rather short order.

14 So we have a hearing, a public hearing at 6:00
15 here for public comment. I want to ask the Committee
16 kind of a question for future cases. Would it be the
17 preference of the Committee in the future if we set the
18 public hearing at a time other than 6:00?

19 MEMBER NOLAND: Yes.

20 CHMN. CHENAL: I mean I have done it, frankly,
21 because it has been done like that. But I mean I don't
22 know how convenient it is. We want to allow the public
23 to attend, and if they work until 5:00 -- but a 6:00, I
24 mean if we wait for an hour and then one person shows
25 up, if that, you know, I just wonder, maybe we should

1 move it up to 5:30. What would be the preference of the
2 Committee?

3 MEMBER WOODALL: 5:00.

4 MEMBER HAENICHEN: 5:30.

5 CHMN. CHENAL: 5:00? Okay. Then, you know, in
6 the future I will endeavor to make the public hearings
7 at, you know, for the public comment at 5:00.

8 Is there anything further we need to discuss
9 before we adjourn for the 6:00 public comment?

10 We will have the final arguments tomorrow. We
11 will have the deliberations. We will work on the CEC.

12 Mr. Guy, is there a draft of what you will have
13 that's available? Certainly it will be available
14 tomorrow as per usual. We will kind of review it as we
15 go, up on the screen as we go, as we go along. Did you
16 have any thoughts on that.

17 MR. GUY: I don't think we have a draft right
18 this minute. I can certainly, if it is helpful, you
19 know, we can e-mail the draft later this evening to the
20 extent people want to spend time on it this evening.
21 But if we don't have that, we will have a copy first
22 thing in the morning.

23 The one thing that would perhaps be helpful,
24 Mr. Chair, if it is something you are amenable to doing,
25 is the one condition that we are struggling with a

1 little bit that we could use guidance on, perhaps the
2 Game & Fish letter. There has been some discussion
3 about that. To the extent we could get a sense from the
4 Committee if the Committee has a preference, then it
5 would give us direction this evening as to how to
6 incorporate any potential conditions associated with
7 that letter. And we have got a couple options, but --

8 CHMN. CHENAL: Well, I think a couple ways to
9 go. And I think frankly, I am not married to either
10 one, I just think there ought to be some clarity in the
11 four corners of the document.

12 One way is to create a condition, I guess, that
13 lays out the items that are set forth in the Game -- the
14 mitigation measures. The other, I guess, as Member
15 Noland suggested yesterday, we have a condition that
16 says something like the applicant will comply with all
17 mitigation measures set forth in the letter from Game &
18 Fish to the Chairman dated such and such a date,
19 attached and incorporated as reference as Exhibit A or
20 Exhibit C, whatever exhibit it would be. I guess either
21 way would be acceptable. I have a preference of the
22 two, but I could live with either. But let's hear what
23 the Committee has to say.

24 Member Noland.

25 MEMBER NOLAND: Well, Mr. Chairman, you just

1 stated my preference.

2 CHMN. CHENAL: Okay.

3 MEMBER WOODALL: I'm in accord with Member
4 Noland.

5 MEMBER HAMWAY: I am, too.

6 CHMN. CHENAL: Okay.

7 MEMBER HAENICHEN: Me, too.

8 CHMN. CHENAL: All right. Okay. That's fine.

9 So I guess the direction is to have -- maybe we will
10 make the letter an exhibit and have a very short
11 succinct condition that, you know, says the applicant
12 will comply with those mitigation measures.

13 MEMBER NOLAND: Mr. Chairman.

14 CHMN. CHENAL: Yes, Member Noland.

15 MEMBER NOLAND: I wanted to be sure that the
16 Staff recommendations for conditions were the ones that
17 were presented today. And you agreed that the
18 applicant's wording on the gas line was okay with you,
19 is that correct, Mr. Hains?

20 MR. HAINS: Chairman, Member Noland, yes. Staff
21 has reviewed and had an opportunity to pore over and
22 give a good think to the proposed revisions that the
23 applicants are making. And Staff is comfortable with
24 both of the two conditions, the gas one and for the
25 participation and reliability requirements.

1 MEMBER NOLAND: Okay. And Mr. Chairman,
2 Mr. Guy, or Mr. Beck, is the gas line condition along
3 the same lines as we have seen in the past?

4 MR. GUY: Yes. The gas provision that we
5 proposed in our draft CEC was the one approved in the
6 Southline case.

7 MEMBER NOLAND: Okay.

8 MR. GUY: Just slightly different language than
9 the precedent that Staff wrote from.

10 MEMBER WOODALL: I think that was an ancient
11 condition as well.

12 MEMBER NOLAND: And Mr. Chairman, I would just
13 like to note if there are any other conditions coming
14 out of the woodwork that we haven't seen yet.

15 CHMN. CHENAL: I don't think so, Member Noland.
16 I think -- I passed around ones that I had kind of
17 noodled together, and I think you have seen the
18 discussion on the ones that have been discussed by
19 Staff. We talked about the Border Patrol matters that
20 will be incorporated, probably have already been
21 addressed in the draft that the applicant is working on.
22 I am unfamiliar with any others.

23 MEMBER NOLAND: Okay.

24 CHMN. CHENAL: I mean if there are any others we
25 should talk about, this would probably be a good time to

1 do it. But I am not thinking of any. And I appreciate
2 the other ones, flesh this out now. I think it will
3 save time tomorrow.

4 MR. GUY: It will.

5 MEMBER NOLAND: I think we should pretty much be
6 able to go through them because we discussed most of
7 them.

8 CHMN. CHENAL: Now, we will have two tomorrow,
9 so, Mr. Guy, but the majority of the language will be
10 the same for both. So there will be just slight
11 differences. Maybe the one with the Nogales project, or
12 the interconnection project, the Presidential Permit
13 might have some additional language. Is that correct?

14 MR. GUY: That's right. As we looked at the
15 evidence and listened to what was important to the
16 Committee, largely the evidence is the same for both
17 projects. And the way they can refer to the conditions
18 is the same. Obviously one project has a Presidential
19 Permit, so when we have Presidential Permit specific
20 conditions, I believe they are just one or two, that
21 hopefully will be the only difference.

22 MEMBER WOODALL: I am assuming the Border Patrol
23 one is going to be in the interconnection, it is not
24 going to be in the Kantor CEC, or is it?

25 MR. GUY: Well, the only change I have currently

1 made to address Border Patrol, at least my notes
2 reflected, was to add that the applicants would comply
3 with FAA regulations, and I thought that was
4 sufficiently general we could include for both.

5 MEMBER WOODALL: Thank you. That helps.

6 CHMN. CHENAL: Okay. Anything further before we
7 adjourn?

8 (No response.)

9 CHMN. CHENAL: Well then, good. Tomorrow we
10 will have the final arguments and proceed to
11 deliberations. So tonight at 6:00 we will have the
12 hearing and tomorrow at 9:00 a.m. we will conclude -- we
13 will start for the final day of hearing.

14 Okay. Thanks, everybody.

15 (A recess ensued from 5:17 p.m. to 6:05 p.m.)

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1 (The evening public comment session commenced
2 with Committee members present and the Applicants.)

3 (TIME NOTED: 6:05 p.m.)
4

5 CHMN. CHENAL: All right. Good evening,
6 everybody. This is the time set for the public comment
7 portion of the hearing that was noticed for 6:00 p.m.
8 this evening.

9 Is there anyone in attendance who wishes to
10 address the Committee on this project?

11 Ma'am, would you please step to the microphone
12 and give us your name. And we are interested to hear
13 what your comments are.

14 MS. FREEMAN: My name is Nancy Freeman. I live
15 in Green Valley. I represent the Groundwater Awareness
16 League, which was created to address the water issues
17 with copper mining in southern Arizona.

18 So several people had called me with concerns
19 because there is a proposed copper mine in the Patagonia
20 area, the Harshaw old mining area. And since this will
21 be a merchant line, they were concerned that the company
22 might sell and enable that mine to have power.

23 Now, I attended the meeting on Tuesday to get
24 the logistics, because it was a little confusing that
25 Nogales Tap was in Tucson and Valencia was in Nogales.

1 I got that all figured out. And what I did was I went
2 through the report to see where that -- those lines were
3 going.

4 I will mention that there is another -- there
5 was another concern, and that was that the power lines
6 would go through the Santa Rita Experimental Range. But
7 I did speak with the U of A manager, and he said those
8 lines had been there forever and you were just
9 upgrading, which is great. You know, I feel really good
10 about the project making more reliable power. And also,
11 you know, going through the Santa Rita Experimental
12 Range with new power lines and everything, it is going
13 to be safer.

14 So I printed out maps for you to peruse. So I
15 got those out of the -- off the internet, off the
16 application. And I noticed that one of them did, in
17 fact, go right through Sonoita, which would mean that it
18 would be -- would have to go by Patagonia. And the
19 mining, the mining operations, it does pollute the water
20 and the air. It depletes the water table, because it
21 uses 50,000 gallons of water per day for their
22 operations. And if you have ever been out there, there
23 is some of the most beautiful Arizona sycamores, I am
24 sure, in the whole state. I mean it is a beautiful
25 area. And they have already created one forest fire

1 from welding.

2 So I don't know if there is any way that you can
3 put an earmark on the project that specifies that the
4 merchants will not degrade the environment, the water
5 table, or the air pollution.

6 And I will mention that I did get the compliance
7 of Phelps Dodge to clean the polluted water in our
8 public water in Green Valley. And it had uranium coming
9 in, which actually was alpha, gamma, and radon. And
10 that would be the same in Harshaw. That area is -- has
11 a lot of uranium in it as a waste product. So that
12 waste product would go to the environment.

13 So I would suggest and hope that the Hunt
14 company would avoid the route through Sonoita or any
15 other to avoid the degradation of that area.

16 Thank you.

17 CHMN. CHENAL: Okay. Ms. Freeman, thank you
18 very much for your comments, for coming down and
19 providing us the maps. The nature of public comment is
20 we can't really get into an exchange with you.

21 MS. FREEMAN: I understand that.

22 CHMN. CHENAL: But we very much appreciate the
23 time you took to come and address us this evening. And
24 it gives us things to think about, and then we can
25 address that with the applicant when we resume our

1 hearing tomorrow. So I appreciate that.

2 Are there any other, any other people want to
3 comment this evening?

4 I see some people in the audience, if anyone
5 wants to address the Committee. Okay.

6 Sir, if you would, would you please come up to
7 the microphone, give us your name, and we are interested
8 in what you have to say.

9 MR. JUHLIN: Okay. My name is Ben Juhlin. I
10 actually live on Elephant Head. I am one of the houses
11 where the power lines exist right now. They run right
12 over my house.

13 The concerns that I have are the voltages that's
14 going on through these lines, the poles, they are going
15 to change in size, things of that nature. I knew when I
16 bought my land. I am not saying, hey, you know, this is
17 wrong. The poles were there when I bought my land. I
18 accepted them when I bought my land. I am not too keen
19 on having poles or lines, which I understand are going
20 to be three times as powerful as they are right now, 200
21 feet away from my house, doesn't exactly excite me.

22 I don't know what to say. You have to come
23 across my land. They have an easement for it to
24 maintain and whatnot. I am not exactly sure they have
25 the easement to put new stuff up. But I am a little

1 sketchy having those size lines over my home. You don't
2 hear how they snap, crackle, and pop.

3 Any taller poles, when we get struck by
4 lightning four or five, six times a year out there on
5 the poles, I don't know if I want a bigger pole out
6 there attracting more lightning to my land, so to speak.

7 So I am just a little concerned what is going on
8 out there. I haven't seen any pamphlets; although, I
9 honestly haven't had time to do research as far as what
10 is going on other than the little bit that I do know.
11 But it just kind of sketches me out a little bit having
12 those big lines out there. So I don't know who else --
13 what else I can do. I am one little guy. So I am not
14 happy about it.

15 CHMN. CHENAL: What is your name again, sir?

16 MR. JUHLIN: Ben Juhlin, J-U-H-L-I-N.

17 CHMN. CHENAL: Ben Juhlin. I would suggest you
18 speak with the gentleman at the far end, Mr. Beck --

19 MR. JUHLIN: All right.

20 CHMN. CHENAL: -- to ask him some questions
21 about the concerns you have raised. He may be able to
22 answer some of your questions. We can't really tonight
23 in the context of public comment.

24 MR. JUHLIN: Sure.

25 CHMN. CHENAL: But I think he can help you with

1 some of the concerns you have raised.

2 MR. JUHLIN: Thank you.

3 CHMN. CHENAL: Would anyone else like to address
4 the Committee this evening?

5 (No response.)

6 CHMN. CHENAL: All right. Looks like there is
7 no further comments. So we will adjourn this evening
8 and we will resume tomorrow morning at 9:00 a.m.

9 Thank you, everybody.

10 (The hearing recessed at 6:14 p.m.)

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1 STATE OF ARIZONA)
2 COUNTY OF MARICOPA)

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4 BE IT KNOWN that the foregoing proceedings were
5 taken before me; that the foregoing pages are a full,
6 true, and accurate record of the proceedings all done to
7 the best of my skill and ability; that the proceedings
8 were taken down by me in shorthand and thereafter
9 reduced to print under my direction.

10

11 I CERTIFY that I am in no way related to any of
12 the parties hereto nor am I in any way interested in the
13 outcome hereof.

14

15 I CERTIFY that I have complied with the
16 ethical obligations set forth in ACJA 7-206(F)(3) and
17 ACJA 7-206 (J)(1)(g)(1) and (2). Dated at Phoenix,
18 Arizona, this 12th day of September, 2017.

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COLETTE E. ROSS
Certified Reporter
Certificate No. 50658

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24 I CERTIFY that Coash & Coash, Inc., has complied
25 with the ethical obligations set forth in ACJA 7-206
(J)(1)(g)(1) through (6).

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COASH & COASH, INC.
Registered Reporting Firm
Arizona RRF No. R1036

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