

1 BEFORE THE ARIZONA POWER PLANT

LS-344

2 AND TRANSMISSION LINE SITING COMMITTEE

3

4	IN THE MATTER OF THE APPLICATION OF)	DOCKET NO.
4	UNS ELECTRIC, INC. IN CONFORMANCE)	L-00000F-24-0056-
5	WITH THE REQUIREMENTS OF A.R.S.)	00230
5	40-360, ET SEQ., FOR A DISCLAIMER)	
6	OF JURISDICTION, OR, IN THE)	
6	ALTERNATIVE, A CERTIFICATE OF)	
7	ENVIRONMENTAL COMPATIBILITY)	
7	AUTHORIZING THE EXPANSION OF BLACK)	
8	MOUNTAIN GENERATING STATION, A)	
8	NATURAL GAS-FIRED, COMBUSTION)	EVIDENTIARY
9	TURBINE POWER PLANT NEAR KINGMAN,)	HEARING
9	ARIZONA IN MOHAVE COUNTY.)	
	_____)	

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At: Phoenix, Arizona

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Date: April 24, 2024

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Filed: April 30, 2024

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REPORTER'S TRANSCRIPT OF PROCEEDINGS

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1 BE IT REMEMBERED that the above-entitled
2 and numbered matter came on regularly to be heard before
3 the Arizona Power Plant and Transmission Line Siting
4 Committee at 1200 West Washington Street, Phoenix,
5 Arizona, commencing at 10:00 a.m. on April 24, 2024.

6

7 BEFORE: ADAM STAFFORD, Chairman

8 LEONARD C. DRAGO, Department of Environmental
Quality
9 ROMAN FONTES, Counties
DAVID FRENCH, Arizona Department of Water Resources
10 JON H. GOLD, General Public
NICOLE HILL, Governor's Office of Energy Policy
11 R. DAVID KRYDER, Agriculture Interests
MARGARET "TOBY" LITTLE, General Public
12 GABRIELA SAUCEDO MERCER, Arizona Corporation
Commission
13 DAVE RICHINS, General Public
SCOTT SOMERS, Incorporated Cities and Towns
14 (Via Videoconference)

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1 CHMN STAFFORD: Now's the time set for the
2 hearing on the application for a disclaimer of
3 jurisdiction for UNSE Docket Number
4 L-00000F-24-0056-00230 or Line Siting Case 230.

5 Start by taking role of the Committee
6 members.

7 Member Fontes.

8 MEMBER FONTES: Present, representing the
9 counties of Arizona.

10 CHMN STAFFORD: Member Hill.

11 MEMBER HILL: Present, representing the
12 governor's officer.

13 CHMN STAFFORD: Member Drago.

14 MEMBER DRAGO: Present, representing
15 Arizona Department of Environmental Quality.

16 CHMN STAFFORD: Member French.

17 MEMBER FRENCH: Present, director's
18 designee for the Department of Water Resources.

19 CHMN STAFFORD: Member Richins.

20 MEMBER RICHINS: Present, representing the
21 general public.

22 CHMN STAFFORD: Member Gold.

23 MEMBER GOLD: Present, representing the
24 people of Arizona.

25 CHMN STAFFORD: Member Mercer.

1 MEMBER MERCER: Present; I'm the designee
2 of the Arizona Corporation Commission Chairman.

3 CHMN STAFFORD: Member Kryder.

4 MEMBER KRYDER: Present, representing
5 agriculture of Arizona.

6 CHMN STAFFORD: And Member Somers is with
7 us virtually.

8 MEMBER SOMERS: Present.

9 CHMN STAFFORD: Thank you.

10 I just wanted to let the members know this
11 is a hearing on -- it's limited to the disclaimer, the
12 request for disclaimer of jurisdiction. There will be --
13 initially we'll set out -- the parties will lay out what
14 the facts are, and then at the conclusion instead of
15 voting on whether to issue a CEC or not, we'll decide
16 whether or not the statute applies to the project. So
17 this is not an environmental review. We won't be doing a
18 tour. There won't be -- we won't be looking at the
19 impacts of it. This is just more of a theoretical
20 exercise of whether the process applies to this project
21 or not.

22 And the ex-parte rule is in effect, and I
23 would like to admonish the public and all the parties
24 that they are not to communicate with the Committee
25 members about the merits of the case off the record.

1 Now let's take appearances of the parties,
2 starting with the applicant.

3 MS. GRABEL: Thank you, Mr. Chairman,
4 Committee members, Meghan Grabel from the law firm
5 Osborne Maledon, on behalf of UNS Electric. With me at
6 counsel table is UNSE's in-house counsel, Megan Hill and
7 its assistant general counsel, Mr. Brad Carroll.

8 CHMN STAFFORD: Thank you. Sierra Club.

9 MR. WOOLSEY: Good morning, Mr. Chairman.
10 Can you hear me?

11 CHMN STAFFORD: Yes.

12 MR. WOOLSEY: Patrick Woolsey, appearing on
13 behalf of Sierra Club, and with me is my colleague, Nihal
14 Shrinath.

15 CHMN STAFFORD: ArISEIA.

16 MS. JOHNSON: Good morning, Chairman and
17 members, Autumn Johnson on behalf of the Arizona Solar
18 Energy Industries Association or ArISEIA.

19 CHMN STAFFORD: Western Resource Advocates.

20 MS. DOERFLER: Good morning, Emily Doerfler
21 on behalf of Western Resource Advocates or WRA.

22 CHMN STAFFORD: SWEEP.

23 MS. REYES: Good morning. Chanele Reyes,
24 from the Arizona Center for Law in the Public Interest,
25 on behalf of the Southwest Energy Efficiency Project or

1 SWEEP.

2 CHMN STAFFORD: And Commission Staff.

3 MS. SCOTT: Good morning, Chairman Stafford
4 and members of the Line Siting Committee, Maureen Scott
5 and Samantha Egan, on behalf of the Commission Staff in
6 this proceeding.

7 CHMN STAFFORD: Thank you.

8 Now, Members, we have a number of parties
9 that have applied for intervention. Several are parties
10 as a matter of right under the statute. And that is the
11 applicant and that is the Commission Staff and ArISEIA.
12 I don't believe the applicant objects to any
13 participation of any of these parties.

14 MS. GRABEL: Thank you, Mr. Chairman. We
15 do not object to the participation of these parties.

16 CHMN STAFFORD: But you did draw -- make a
17 point that while Staff is a party pursuant to
18 360.05(A)(2), and ArISEIA is (A)(3), Sierra Club, WRA,
19 and SWEEP need to be designated parties by the Committee,
20 because they're -- that's pursuant to (A)(4), correct?

21 MS. GRABEL: That is correct, Mr. Chairman,
22 yes. But we would not oppose them being admitted under
23 that rule.

24 CHMN STAFFORD: Okay. So, Members, if I
25 could get a motion to allow Sierra Club, WRA, and SWEEP

1 status as intervenors.

2 MEMBER RICHINS: So moved.

3 MEMBER GOLD: Second.

4 CHMN STAFFORD: All in favor say aye.

5 (A chorus of "ayes.")

6 CHMN STAFFORD: Opposed?

7 (No response.)

8 CHMN STAFFORD: Hearing none, so Sierra

9 Club, WRA, and SWEEP are now parties to this case.

10 All right. Now, all the parties have
11 exchanged exhibits and provided copies of their exhibits
12 to the members, correct?

13 MS. GRABEL: Correct, yes.

14 MR. WOOLSEY: Mr. Chairman, I did want to
15 ask, I gather that Member Somers is participating
16 remotely. We hadn't realized that one of the members
17 would be appearing remotely. Would it be appropriate for
18 us to e-mail a copy of the exhibits to Member Somers?

19 CHMN STAFFORD: You can get it to Tod
20 at -- my assistant, and he can get it to Member Somers.

21 MR. WOOLSEY: Thank you.

22 CHMN STAFFORD: I assume the other parties
23 have similar concerns?

24 ArISEIA?

25 MS. JOHNSON: I can e-mail Tod now. Thank

1 you.

2 CHMN STAFFORD: Okay, thank you.

3 And SWEEP, you didn't have any exhibits.

4 WRA?

5 MS. DOERFLER: I'll do the same.

6 CHMN STAFFORD: And Commission Staff, I
7 believe yours are already in the docket.

8 MS. SCOTT: Yes, I believe they are.

9 CHMN STAFFORD: Okay. All right. And I
10 understand all the parties have stipulated to the
11 admission of all their exhibits. There's none that are
12 being contested, correct?

13 MS. GRABEL: Mr. Chairman, that was true as
14 of the date of the prehearing conference. I believe that
15 since then Staff has submitted some exhibits that some of
16 the other parties object to. So I'll let them speak to
17 their own objections, but the Company's fine stipulating
18 to the admission of all exhibits with the note that we
19 may object to them, but that will go to the weight of the
20 evidence, as opposed to its admission.

21 CHMN STAFFORD: And Sierra Club?

22 MR. WOOLSEY: Thank you, Mr. Chairman. So
23 as Ms. Grabel mentioned, the parties did discuss some
24 late-disclosed exhibits that Staff offered, including a
25 letter in response to Commissioner Tovar's letter. And

1 Sierra Club, and I believe a number of other intervenors,
2 have simply raised the point that because that letter
3 contains legal argument, we didn't believe that it should
4 be considered an evidentiary exhibit, but that said, we
5 don't have an objection to that letter being considered
6 as part of the record.

7 CHMN STAFFORD: All right. So you have
8 no -- no objection to the admission of all the exhibits?

9 MR. WOOLSEY: We -- we do not object to any
10 of the other exhibits' admission. As to that letter
11 offered by Staff, we believe that should not be
12 considered an exhibit, and we would reserve the option to
13 object at the appropriate time.

14 CHMN STAFFORD: All right.

15 WRA?

16 MS. DOERFLER: I would echo Sierra Club's
17 objection or, I guess, non-objection, but point.

18 CHMN STAFFORD: Okay.

19 SWEEP?

20 MS. REYES: I agree with WRA and Sierra
21 Club on the matter.

22 CHMN STAFFORD: ArISEIA?

23 MS. JOHNSON: Chairman and Members, we will
24 stand by the stipulation of all of the factual exhibits,
25 all of which I believe were submitted in advance of the

1 prehearing conference. We would also agree that any
2 legal arguments are appropriate for a response, but are
3 not appropriately factual exhibits.

4 CHMN STAFFORD: And Commission Staff?

5 MS. SCOTT: Chairman and Committee Members,
6 we believe it is appropriate to admit that exhibit,
7 because that letter -- those letters that the Chairman
8 requests in cases have typically been made an exhibit and
9 part of the record, so we believe this is no different,
10 and that this letter should be treated as other letters
11 have been in the past.

12 CHMN STAFFORD: Thank you.

13 All right. So we have -- the applicant has
14 17 exhibits?

15 MS. GRABEL: Yes, Mr. Chairman.

16 CHMN STAFFORD: All right. Those are
17 admitted.

18 (Exhibits UNS-1 through UNS-17 were
19 admitted into evidence.)

20 CHMN STAFFORD: Sierra Club, you have 34
21 exhibits?

22 MR. WOOLSEY: I have 32 exhibits,
23 Mr. Chairman.

24 CHMN STAFFORD: 32. All right. Those are
25 admitted.

1 (Exhibits SC-1 through SC-32 were admitted
2 into evidence.)

3 CHMN STAFFORD: ArISEIA?

4 MS. JOHNSON: We had 10 exhibits, but to
5 reduce redundancy, because Sierra Club is doing their
6 cross-examination before us, immediately before us is my
7 understanding, we removed any exhibits that were
8 duplicative. And so now we have five.

9 CHMN STAFFORD: All right. Those are
10 admitted.

11 (Exhibits ArISEIA-1 through ArISEIA-5
12 were admitted into evidence.)

13 CHMN STAFFORD: WRA?

14 MS. DOERFLER: WRA has one exhibit.

15 CHMN STAFFORD: All right. It is admitted.

16 (Exhibit WRA-1 was admitted into
17 evidence.)

18 CHMN STAFFORD: And Commission Staff, you
19 have two exhibits?

20 MS. SCOTT: Yes, that's correct.

21 CHMN STAFFORD: All right. The Staff
22 letters are always an exhibit in these proceedings, so
23 both of Staff's exhibits are admitted.

24 (Exhibits S-1 through S-2 were admitted
25 into evidence.)

1 CHMN STAFFORD: And SWEEP, you had none,
2 correct?

3 MS. REYES: Correct. No exhibits.

4 CHMN STAFFORD: And we are not
5 consolidating the parties, you've managed to narrow the
6 scope of the parties. I think we have a handle on it, I
7 don't believe it's necessary.

8 I do believe we have some people wanting to
9 make public comment. There is a sign-in sheet in the
10 back of the room. If you are present and wish to make
11 public comment, please fill it out. And then we will use
12 that to call on you.

13 Let's begin with the opening statements,
14 starting with the applicant.

15 MS. GRABEL: Thank you, Mr. Chairman. I
16 believe we need to load a PowerPoint onto the screen.

17 Excellent.

18 Again, thank you, Mr. Chairman, Members of
19 the Committee. Meghan Grabel of the law firm Osborn
20 Maledon on behalf of UNS Electric.

21 My opening will briefly walk you through
22 the disclaimer process and then present the facts
23 underlying UNSE's application which will be presented in
24 greater detail by our witnesses later this morning.
25 These facts focus on the existing Black Mountain

1 Generating Station, and the proposed new generating
2 units. I will then conclude with an introduction of our
3 witnesses.

4 So just real quickly, talking about the
5 disclaimer process. UNSE has been accused by some of the
6 intervenors of trying to evade the Committee's
7 jurisdiction, which is precisely the opposite of what we
8 are trying to do here today. We believe that the statute
9 is clear, but because entities have voluntarily sought
10 CECs in situations where they may not have had to under
11 the statute, we opted to file for a disclaimer of
12 jurisdiction from the Committee and the Commission to
13 clarify whether a CEC is indeed needed. This process is
14 expressly provided for in the rules.

15 As you'll see on the screen, the
16 Commission's rules state that an application may be filed
17 in the alternative in situations where the applicant is
18 in doubt as to whether an application is required by law.
19 In such instances, the application shall request a
20 disclaimer of jurisdiction from the Committee, and that's
21 what we are doing here today. This case is well-suited
22 for a disclaimer because it presents a threshold question
23 of statutory interpretation: Are the proposed new
24 generating units at the Black Mountain Generation Station
25 plants that require a CEC? I'm not going to argue the

1 law now; we'll be doing that later in closing. But what
2 you see on the screen in front of you is the definition
3 of "plant." Plant means each separate thermal electric
4 generating unit with a nameplate rating of 100 megawatts
5 or more. I read just the relevant parts for this
6 proceeding. The question for the Committee is whether on
7 the facts of this case, UNSE's proposed generating units
8 meet this definition.

9 Again, I'm not going to argue the law yet,
10 but the fact is that the Corporation Commission has
11 defined the term "generating unit," as part of its
12 resource planning rules. That rule is as follows:
13 "Generating unit" means a specific device or set of
14 devices that converts one form of energy, such as heat or
15 solar energy, into electric energy, such as a turbine and
16 generator or a set of photovoltaic cells. I'll refer
17 both back to the statute and this rule in my closing
18 argument, but for now let's turn to the facts.

19 The key facts in this case are undisputed.
20 First is that the nameplate rating is the maximum-rated
21 output of a generator, commonly expressed in megawatts,
22 and is usually indicated on a nameplate that is
23 physically connected to the generator. That rating does
24 not change, it is what it is, and you can physically see
25 it etched on a placard that is embedded on the generator.

1 Second, there is no dispute that the nameplate rating for
2 each of the new generators to be added to the Black
3 Mountain Generation Station will be under 100 megawatts.
4 If they are higher than that, any disclaimer of
5 jurisdiction that this Committee will say will not apply
6 and the Company will apply for a CEC.

7 The new units are expected to be similar to
8 the existing Black Mountain Generating Station units, so
9 it is helpful to look at those in order to put this
10 question in context. The picture on the screen shows the
11 existing Black Mountain Generating Station, it is
12 comprised -- oh, sorry. Thank you -- it is comprised of
13 two units, Unit 1 and Unit 2. Each unit has a separate
14 nameplate rating of 61 megawatts.

15 These units provide peaking capacity and
16 reliability services for UNSE service area in Lake Havasu
17 and Kingman, Arizona. These small, single-cycle plants
18 are needed, because they supply flexible, dispatchable,
19 fast-ramping generation that can balance the
20 intermittency of the growing renewable generation on the
21 UNSE system. The new units are intended to serve the
22 same purpose.

23 This is a picture of the Unit 2 generator.
24 As you can see, the nameplate circled in very poor
25 computer penmanship, I'm afraid, is physically affixed to

1 the generator. Zooming in, you can see that the
2 nameplate tells us a lot about the generator. Relevant
3 for our purposes are two things: First, the output; and
4 second, the power factor. While a nameplate rating is
5 typically expressed in megawatts, at Black Mountain the
6 units' capacity's expressed in kilovolt-amperes, or kVAs,
7 and is demonstrated on the output line.

8 Because the nameplate rating is expressed
9 in kVA, we need to convert it to megawatts and both the
10 fact that a conversion is needed, and the calculation to
11 determine the nameplate ratings is a stipulated fact.
12 The conversion to megawatts is accomplished by
13 multiplying the kVA output by the power factor, divided
14 by 10 to the power of 3.

15 Here, for Unit 2, the output is 71,176 kVA.
16 The power factor is .85. Multiplying those two figures
17 and dividing by 10 to the power of 3 gives you have a
18 megawatt rating of 60.5 megawatts or we rounded that to
19 61 megawatts for ease. Both of the generators at Black
20 Mountain Generating Station have identical nameplates,
21 and each has a nameplate rating of 61 megawatts.

22 So now let's turn to the proposed units.
23 This is the undisputed layout of the proposed units. All
24 of the equipment that is required for the conversion of
25 one form of energy into electricity, such as a turbine

1 and a generator, will be specific to each unit. The
2 equipment that will be specific to each unit is shaded in
3 blue. There will be some facilities that the four
4 generating units will share. These are things like the
5 cooling tower, the evaporation pond, and the generation
6 tie line. Notably, the shared facilities are not
7 required for the actual conversion of energy to
8 electricity, the actual generation process. Instead,
9 they provide support to the generating units to help meet
10 regulatory requirements, make the production process more
11 efficient, and catch the byproduct of generation, among
12 other things.

13 While we could theoretically build
14 individual ponds, towers, and gen-ties, it makes sense to
15 size these shared items, such that UNSE and its
16 ratepayers can save money by taking advantage of
17 economies of scale. The shared facilities, which are
18 colored in this gray in this schematic, do not physically
19 connect the four units, nor do they make the units rely
20 on one another for generation in any way. Each unit
21 operates independent of the other. They are separately
22 monitored, they are separately operated, they are
23 separately dispatched, and they are separately
24 maintained. All four units may run at the same time, but
25 they will also likely run at different times, according

1 to system needs, which is the case with the two existing
2 BMGS units. These are the facts on which our application
3 for a disclaimer of jurisdiction is based.

4 The intervenors have presented what they
5 call "disputed facts," which are really just
6 mischaracterizations of how a power facility actually
7 operates, in an attempt to force an argument that the
8 four proposed generating units will not be, quote,
9 separate from one another. They argue, for example, that
10 the four units are connected or integrated, which is
11 factually untrue. Rather, each generating unit, defined
12 again to mean the turbine and generator and the limited
13 auxiliary equipment needed to convert energy to
14 electricity, are fully independent of one another. They
15 are physically disconnected, and don't rely on one
16 another to generate electricity.

17 Similarly, as discussed previously, the
18 fact that the units will share certain facilities to
19 benefit from economies of scale, does not connect them to
20 one another or make them dependent on one another for
21 generation of electricity. The generating units will be
22 physically and operationally separate, despite sharing
23 facilities for cost purposes.

24 Finally, the intervenors' attempt to equate
25 a generating unit with a generation station, that attempt

1 is both inconsistent with governing regulations, which
2 I'll explain in my closing, but it's also factually
3 incorrect. A generation station does not have a
4 nameplate. It is the site on which one or more
5 generating units, together with the other equipment that
6 supports those units exists. It's very common in the
7 energy industry to reference a facility as "Unit 1 at the
8 Valencia Generating Station," for example, when referring
9 to the operation of that single unit. "Generating
10 station" and "generating unit" are two different things.
11 So please keep these realities in mind when hearing the
12 presentations today.

13 Am I at the right screen? No. Okay.

14 Okay, there we go.

15 By way of evidence, you will hear today
16 from a panel of UNSE witnesses: Mr. Clark Bryner, who has
17 come before this Committee before; and Mr. Dylan Bearce,
18 who is the Company's senior director of energy resources
19 operations. Mr. Bryner will walk you through a
20 presentation that goes into greater factual detail about
21 the existing and proposed BMGS units. Mr. Bearce will
22 also sit on that panel to help any of the questions that
23 you may have and to provide rebuttal testimony, if
24 needed, after the intervenors put on their direct cases.

25 In the end, we hope you will see that the

1 salient facts are as follows: Each separate generating
2 unit at the Black Mountain Station has a nameplate rating
3 61 megawatts. The four new generators at Black Mountain
4 are also anticipated to have a nameplate rating of less
5 than 100 megawatts. Both the existing and new generation
6 units have nameplate ratings that are under the statutory
7 threshold. Each new generation unit will be monitored,
8 operated, and dispatched independently. Shared
9 facilities do not physically connect each generating unit
10 or require them to rely on another to generate
11 electricity. The facilities are shared for economic
12 reasons, not operational ones. They do not somehow
13 combine these single units together as one.

14 Under these facts, the Company firmly
15 believes that a CEC is not required prior to
16 construction. Thank you very much.

17 CHMN STAFFORD: Thank you. Sierra Club.

18 MR. WOOLSEY: Good morning, Mr. Chairman
19 and Committee Members.

20 Can you all hear me all right?

21 CHMN STAFFORD: Yes.

22 MR. WOOLSEY: Patrick Woolsey on behalf of
23 Sierra Club. Thank you for the opportunity to speak
24 today.

25 In UNS's application for disclaimer of

1 jurisdiction, the Company argues that it need not obtain
2 a Certificate of Environmental Compatibility for a
3 200-megawatt, four-turbine expansion at Black Mountain
4 Generating Station, because UNS asserts the project is
5 actually four separate power plants. UNS's argument
6 contradicts the factual evidence, which shows that the
7 four units at Black Mountain would not be separate, and
8 UNS's argument would violate the line siting statute,
9 which requires applicants to obtain CECs for new power
10 plants with nameplate capacities over 100 megawatts.

11 UNS is proposing a novel and self-serving
12 interpretation of the siting statute that would
13 improperly evade the CEC requirement by treating four
14 interconnected units within a single power plant as four
15 separate plans. UNS's requested disclaimer of
16 jurisdiction would prevent the Committee from exercising
17 its proper authority and defeat the purpose of the siting
18 statute, which is to review environmental impacts of new
19 plants.

20 Today you will see and hear factual
21 evidence demonstrating that the proposed Black Mountain
22 units would be part of one plant, as common sense
23 dictates. You will see that the four proposed units
24 would be located at the same site, that they would rely
25 on numerous types of shared equipment and facilities on

1 the site, and that the units would have extensive
2 physical connections to that shared equipment.

3 You will hear that the new Black Mountain
4 units will be classified as a single plant for purposes
5 of state air permitting and federal reporting. This is
6 consistent with how UNS has described the existing plant.
7 UNS has uniformly described the two existing Black
8 Mountain units as part of the same plant, not two plants.
9 The Commission routinely treats generating facilities
10 with multiple units as single power plants, not separate
11 plants. Since the line siting statute's enactment,
12 utilities have repeatedly applied for CECs for power
13 plants or plant expansions with total capacities over 100
14 megawatts, even where the capacity of individual
15 generating turbines was under 100 megawatts, and the
16 Commission has issued CECs for such plants, including for
17 Coolidge Generating Station, Sundance Generating Station,
18 and the RICE project at TEP's Sundt Generating Station.

19 Adopting UNS's interpretation of the line
20 siting statute would defeat the legislature's intent and
21 eliminate the Committee's power to assess environmental
22 impacts of new thermal power plants, gutting the CEC
23 review process. No matter how large a new power plant or
24 expansion, a utility could evade a CEC review by
25 mischaracterizing the project as a collection of

1 individual plants smaller than 100 megawatts. There
2 would be no upper limit on the scope of future efforts to
3 avoid a CEC review in this way. We encourage the
4 Committee to keep these considerations in mind as UNS
5 attempts to twist the line siting statute into something
6 that it is not.

7 In sum, the evidence at this hearing will
8 demonstrate that the proposed Black Mountain units are a
9 single plant, not separate plants, and that the line
10 siting statute requires UNS to obtain a CEC. The
11 Committee should therefore reject UNS's application for a
12 disclaimer of jurisdiction. Thank you.

13 CHMN STAFFORD: All right. ArISEIA.

14 MS. JOHNSON: Chairman and Members, Autumn
15 Johnson on behalf of ArISEIA.

16 UNSE is here today to ask you to interpret
17 Arizona law differently than you have been for the last
18 53 years, differently than you did when TEP was just here
19 for its RICE project in 2018, and differently than you
20 did when TEP -- or when SRP was just here for its
21 Coolidge project in 2022. UNSE has not bothered to
22 explain why, if this is indeed the plain meaning of the
23 statute, no one, including it, has interpreted it this
24 way at any other time. UNSE can't point to any other
25 examples of this Committee disclaiming jurisdiction for

1 this reason, not one single example.

2 Not only would UNSE's interpretation
3 directly contradict the legislature's own policy
4 statement, but it contradicts common sense. Just in
5 drafting the joint stipulated facts presented to you as
6 UNSE-17, we had to change the name of generator sets
7 three times, because UNSE wanted to make sure the
8 Committee understood that generators and turbines are
9 different. And yet their interpretation of the statute
10 would render turbines, that's what a LM6000 is, it's a
11 turbine, synonymous with power plants. We all know what
12 a power plant is. No one is or has been confused about
13 what a power plant is.

14 The legislature intended the line siting
15 statute to apply to major new facilities, and they
16 decided "major" was 100 megawatts. It is absurd to read
17 the statute in a way that would render half of your work
18 obsolete. It is absurd to read the statute in such a way
19 that would eliminate any ACC review of any new gas peaker
20 plants. It is absurd to read the statute in a way that
21 would eliminate review of micronuclear plants. It is
22 absurd to read the statute in a way that would require
23 review of a project with one 100-megawatt turbine, but no
24 review of a project with 10 99-megawatt turbines.

25 We are here fighting today over what a

1 power plant is, over what "separate" means, over what a
2 "unit" means, and frankly, it isn't a good use of your
3 valuable time. If the legislature meant what UNSE is
4 asserting, it could have just said "turbine" instead of
5 "plant." If the statute means what UNSE says it means,
6 they would have named you the Arizona Turbine and
7 Transmission Line Siting Committee. If the statute means
8 what UNSE says it means, after today you could change
9 your name to the Arizona Transmission Line Siting
10 Committee, because you won't be reviewing power plants
11 anymore.

12 As we can see from the applications of TEP,
13 SRP, Saguaro Partners, and APS, everyone is building
14 plants below 100 megawatts. And that's because that's
15 how big peakers are. And even if someone wanted to build
16 something other than a peaker, they won't, because why
17 would you build something with environmental review when
18 you could build something without it? If UNSE is
19 correct, there will be no state-level review of the
20 environmental impact of gas or small nuclear plants going
21 forward. There will be no review of any of the factors
22 outlined in ARS 40-360.06.

23 The legislature's interest in serving the
24 public interest by minimizing adverse effects upon the
25 environment and upon the quality of life of the people of

1 this state will be eliminated. The legislature's intent
2 to provide a single forum that provides opportunity for
3 individuals, groups, and local governments to participate
4 in the decisions over locations of electric generating
5 plants will be obsolete.

6 If UNSE and all of the other utilities of
7 the state have essentially no regulatory review on new
8 gas plants, you will see more of what you see from UNSE
9 today. New gas projects proposed with no All-Source
10 Requests for Proposal, no mention in the Integrated
11 Resource Plan, and a lot more new gas likely instead of
12 clean energy projects, such as renewables, which is
13 specifically of concern to ArISEIA.

14 You've heard the Company in their opening
15 statement make comments about the underlying need for the
16 plant, and that is not at issue before you today. If
17 they indeed need this plant, then they can apply for a
18 CEC like everyone else. UNSE seeks an exception to a
19 rule that will render the underlying rule moot.

20 I would submit to you that not only would
21 that violate the legislature's intent in 53 years of
22 practice, it would undermine the public interest. Thank
23 you.

24 CHMN STAFFORD: Thank you.

25 WRA.

1 MS. DOERFLER: Greetings, Chairman, Ladies
2 and Gentlemen of the Power Plant and Line Siting
3 Committee, fellow counsel.

4 This case is both extraordinarily important
5 and deceptively simple. It is important because UNSE is
6 asking you to create a new limitation on this Committee's
7 jurisdiction. This limit would restrict your ability to
8 perform your statutory obligation to review whether the
9 construction of new electricity generation units pose
10 unreasonable impacts to development plans, wildlife,
11 noise pollution, recreation, or Arizona scenic areas or
12 environment.

13 And at the same time, this case is also
14 very simple. There is a single question before this
15 Committee: Does UNSE's proposed project meet the
16 definition of a plant, and thus require review? WRA will
17 argue today that the answer is clearly yes, and thus, the
18 disclaimer of jurisdiction must be denied.

19 In order to grant UNSE's petition, this
20 Committee would need to determine that each of the four
21 gas turbine generator sets within the proposed project is
22 a separate generating unit. The case before you focuses
23 on the interpretation of these two terms, "separate" and
24 "generating unit." UNSE's suggested interpretation of
25 each is fatally flawed and must be rejected.

1 First UNSE's proposed 200-megawatt project
2 is a single generating unit, as that phrase is understood
3 as a term of art in the electric utility industry. A
4 generating unit includes all equipment associated with a
5 project, from the resource supply system, here the
6 natural gas pipelines, to the transformers that deliver
7 the electricity to the grid. This is different from just
8 a gas turbine generator set, which is another term for
9 just "unit."

10 This Committee has traditionally adopted
11 the interpretation and understood the term "generating
12 unit" to mean the whole of the connected equipment to a
13 plant, yet today, UNSE asks you to ignore this
14 Committee's long-standing practice and adopt a novel and
15 extreme legal interpretation that is at odds with how the
16 term of art "generating unit" is used in the industry of
17 electric engineering. To reject this interpretation is
18 to contradict the statute, the intent of the legislature
19 who enacted this statute, and the purpose of the Power
20 Plant and Line Siting Committee. For these reasons
21 alone, UNSE's argument must fail.

22 Second, UNSE's legal position is fatally
23 flawed because its proposed project is not four separate
24 generating units; rather, it is one single generating
25 unit consisting of four generator turbine sets. As will

1 be established through factual witnesses, the project
2 consists of four generator turbine sets connected through
3 an array of shared equipment, including control modules,
4 cooling towers, generator step-up transformers, and
5 station service transformers.

6 UNSE's assertion that the generating
7 turbine is separate from itself conflicts with the plain
8 meaning of the word "separate." This again is contrary
9 to 40-360.09, and necessitates rejecting UNSE's attempt
10 to disclaim your jurisdiction over Black Mountain
11 Generating Station.

12 In short, UNSE's petition must be rejected
13 because the legal interpretation that underlies the
14 request for a disclaimer of jurisdiction misinterprets
15 these two critical pieces of the relevant definition.
16 The proposed project meets the definition of "plant"
17 because it is a single interconnected generating unit
18 consisting of four connected units. This Committee,
19 therefore, possesses jurisdiction and UNSE's petition
20 must be denied.

21 CHMN STAFFORD: Thank you.

22 SWEEP.

23 MS. REYES: Good morning, Committee
24 Members -- excuse me -- Mr. Chairman. Again, Chanele
25 Reyes from the Arizona Center for the Law on Public

1 Interest, on behalf of SWEEP.

2 UNS's interpretation constitutes an
3 unjustifiable departure from the standard application of
4 the law that's been done in the state for many years.
5 The public policy behind this proposed departure should
6 not be ignored. SWEEP has interest in that the Line
7 Siting Committee upholds its essential role in
8 maintaining regulatory oversight over this expansion
9 project and others to come in this state, providing
10 critical cost and environmental oversight to protect
11 ratepayers and the environment.

12 By erosion of the oversight process, UNS's
13 proposal poses the risk of needlessly inflating
14 electricity costs for UNS customers and the diversion of
15 resources that could be allocated to more affordable
16 alternatives. Ensuring adherence to the regulatory
17 protocols is vital for the safeguarding of both consumer
18 interests and the environmental well-being of the state
19 for the long term. Thank you.

20 CHMN STAFFORD: Thank you.

21 Commission Staff.

22 MS. SCOTT: Good morning, Chairman and
23 Members of the Line Siting Committee.

24 The Commission Staff filed two exhibits in
25 this proceeding. The first is an April 16th, 2024,

1 letter, which was filed at the request of the Chairman,
2 and which contains our preliminary position on the legal
3 issue raised in this case.

4 Based upon the facts available at that
5 time, we are of the opinion that the individual units
6 fall under the threshold for Committee and Commission
7 jurisdiction. However, because this hearing had not
8 taken place yet, we wanted and may bring out facts that
9 are important to the jurisdictional determination. We
10 delayed our final position until the evidence was
11 presented today.

12 Staff Exhibit 2 is a letter from
13 Commissioner Tovar that was docketed on May 22nd, with a
14 series of questions relating to the project and
15 Commission jurisdiction. Our primary goal today will be
16 to address any matters in response to the letter that
17 need clarification or further development, and to ensure
18 that the Chairman, Committee, and Commission have an
19 adequate record on which to base their decision.

20 We look forward to working with the
21 Chairman, Committee Members, and parties on this
22 important issue.

23 CHMN STAFFORD: Thank you.

24 All right. Do we have any -- anyone
25 present in the room today that signed up for public

1 comment? I believe there's a sign-in sheet in the back
2 of the room.

3 Thank you. If you can bring that to me, I
4 can call off the names of the people who have signed up
5 to speak.

6 UNIDENTIFIED SPEAKER: Hi, I'm online, and
7 I would like to speak, but there was no instructions on
8 how to sign up if we want to speak from online.

9 CHMN STAFFORD: Yes. You'll have to wait
10 for me to call on you. We're dealing with the people
11 that are in the room, and then I will go to the phones
12 after that, so everyone --

13 UNIDENTIFIED SPEAKER: Okay.

14 CHMN STAFFORD: -- on the phone please mute
15 yourself until you're called upon.

16 UNIDENTIFIED SPEAKER: Thank you.

17 CHMN STAFFORD: Thanks.

18 First, we have Horst Schmidt.

19 Thank you. Right there at the podium is
20 great.

21 MR. SCHMIDT: Thank you for allowing me to
22 speak today --

23 CHMN STAFFORD: One second, please.

24 MS. GRABEL: My apologies, before, with the
25 public speakers, would it be possible to hear where

1 they're from to see if they're in the location of the
2 generating stations being proposed?

3 CHMN STAFFORD: All right.

4 Would you please identify yourself and tell
5 us where you're from and then make your comments. I'll
6 limit public comment to three minutes.

7 MR. SCHMIDT: All right. My name is Horst
8 Schmidt. I'm a resident of Gilbert, Arizona. Is that
9 sufficient?

10 CHMN STAFFORD: Yes.

11 MR. SCHMIDT: Okay. Thank you.

12 The question I would ask is why is UNSE
13 afraid of environmental regulation? This is something I
14 would ask the Committee to think about as we -- as you go
15 through your deliberations.

16 As was stated earlier, just because --
17 sorry, I have to put my glasses on -- just because the
18 USNE [sic] has plans to build four units over time at the
19 same location, it should be considered as a 200-megawatt
20 plant, as stated by Sierra Club. This is -- this I
21 consider an example of a gimmick when utilities try to
22 hide facts from their Committee -- from this Committee
23 and, you know, finding out whether there are high levels
24 of pollution from a methane gas plant. NSE's Electric
25 [sic] proposed gimmick of avoiding public scrutiny does

1 not serve the public interest. The public interest is to
2 reduce and eliminate air pollution created by methane gas
3 plants.

4 Your Committee, the Power Plant and Line
5 Siting Committee, would lose control of regulating power
6 plant -- power plants, which are against the public
7 interest, again, and of clean air. Upon further
8 investigation, the Committee will -- sorry --
9 will -- will find that building renewable power plants
10 will, one, cost less to build and maintain, reduce
11 consumer utility costs, and reduce air pollution.

12 So why is UNSE against this? So I think we
13 should leave the gimmicks to toy companies and to -- I
14 think to deny the -- I ask that you deny the UNSE
15 Electric's frivolous, dangerous, and unhealthy subversion
16 of the Certificate of Environmental Compatibility
17 process. Our citizens deserve nothing less.

18 Thank you.

19 CHMN STAFFORD: Thank you.

20 Next up we have Jennifer Cranston.

21 MS. CRANSTON: Good morning, Chairman
22 Stafford and Committee members. My name is Jennifer
23 Cranston, and I don't live anywhere near the potential
24 generating station.

25 I'm an attorney for the law firm of

1 Gallagher & Kennedy, and I am here to speak on behalf of
2 Arizona Electric Power Cooperative, Inc., or as you may
3 know it, AEPCO. Thank you for the opportunity to provide
4 public comment today. I don't normally appear before
5 this group.

6 As indicated in a letter filed in the
7 docket by AEPCO's CEO, Patrick Ledger, AEPCO supports
8 UNSE's application for disclaimer of jurisdiction.
9 UNSE's application, as well as legal division's initial
10 analysis, articulate a number of compelling legal bases
11 for disclaiming jurisdiction. Perhaps the strongest
12 argument is found in the language of ARS 40-360 itself,
13 which defines "plant" using very specific language and
14 syntax.

15 First, the statute uses the singular term
16 "unit" rather than referring to multiple units or units
17 operating in conjunction with one another. Second, the
18 statute adopts nameplate rating as the objective metric
19 by which the 100-megawatt threshold should be determined.
20 Based on the plain language of the statute, a unit with a
21 nameplate rating of less than 100 megawatts does not
22 qualify as a plant that would require a CEC approval,
23 even if multiple units are to be constructed and those
24 multiple units have a combined nameplate rating of 100
25 megawatts or more. I understand that in our everyday

1 vernacular we use the term "plant" to mean something
2 different. That's -- that's not unusual, but when we're
3 looking at what the statutory jurisdiction is, it's
4 important to pay attention to the statutory definitions.
5 And I would respectfully suggest that the concerns raised
6 by the intervenors or some of the intervenors, I should
7 say, in this matter, are better directed at the
8 legislature to maybe reevaluate what the definition of
9 "plant" should be.

10 While the pending application does not
11 involve my client, the practical ramifications of this
12 jurisdictional issue for these kinds of projects would
13 impact all parties that appear before this Committee and
14 would impact this Committee itself. As I'm sure you are
15 all very well aware, the workload of this Committee has
16 increased significantly since it was originally created
17 in the 1970s. And that significant workload has resulted
18 in extended timelines and a backlog of applications. Yet
19 the statutes anticipate a prompt process for evaluating
20 the environmental issues raised by power plants and
21 transmission lines.

22 So not only is the disclaimer of
23 jurisdiction the correct outcome from a legal
24 perspective, but it is also the outcome that is the best
25 outcome from a public policy perspective. I know you're

1 going to hear about public policy, but I submit that
2 public policy actually favors a disclaimer, abiding the
3 clear and unambiguous limitation set forth in the
4 definition by statute of the term "plant" will avoid an
5 additional increase in the Committee's workload, and
6 allow the Committee to stay focused on its charge of
7 evaluating applications in a prompt and orderly fashion.

8 Thank you again for giving me the
9 opportunity to speak.

10 CHMN STAFFORD: Thank you. I'd like to let
11 everyone know that there is no backlog before this
12 Committee.

13 MS. CRANSTON: My apologies, Chairman.

14 CHMN STAFFORD: All right. Let's -- let's
15 move to the phone. I'm going to call your name and then
16 you can unmute yourself, and then you'll have three
17 minutes to speak. And after that we'll move on to the
18 next caller.

19 First we have Amy Dominguez. Do you wish
20 to speak?

21 MS. DOMINGUEZ: I wish to listen in, thank
22 you.

23 CHMN STAFFORD: All right. We have a Nile
24 Bunger [phonetic].

25 MS. BUNGER: I'm just listening in, thank

1 you.

2 CHMN STAFFORD: All right. Now we have
3 Maddie Lipscomb, that's just Sierra Club's paralegal. I
4 assume she's not here for public comment?

5 MR. WOOLSEY: Correct, Mr. Chairman.

6 CHMN STAFFORD: Okay. We have a Steven
7 Foster.

8 MR. FOSTER: Just listening in. Thank you.

9 CHMN STAFFORD: Tod Lichtes [phonetic].

10 MR. LICHTES: No public comment, thank you.

11 CHMN STAFFORD: Someone named Dan without a
12 last name.

13 (No response.)

14 CHMN STAFFORD: All right. Josh Kitterman
15 [phonetic].

16 MR. KITTERMAN: No public comment. Thank
17 you.

18 CHMN STAFFORD: Scott Saline [phonetic].

19 MR. SALINE: Just listening in, thank you.

20 CHMN STAFFORD: All right. Magalito Chief
21 [phonetic].

22 MR. CHIEF: Just listening in. Thank you.

23 CHMN STAFFORD: All right. Fragrance Free.

24 MS. DEMATOS: Hi, this is Larissa. I want
25 to speak.

1 CHMN STAFFORD: Excuse me, I didn't hear
2 that. What was your name?

3 MS. DEMATOS: Larissa.

4 CHMN STAFFORD: Louisa?

5 MS. DEMATOS: Larissa. It's okay.

6 CHMN STAFFORD: And what's your last name?

7 MS. DEMATOS: Dematos.

8 CHMN STAFFORD: Do you wish to speak?

9 MS. DEMATOS: Yes.

10 CHMN STAFFORD: Could you please spell your
11 last name?

12 MS. DEMATOS: D-e, space, m-a-t, like
13 tomato, o-s.

14 CHMN STAFFORD: I'm sorry, I didn't get
15 that, D-e --

16 MS. DEMATOS: Space m-a-t, like tomato,
17 o-s.

18 CHMN STAFFORD: And your first name again
19 was?

20 MS. DEMATOS: L-a-r-i-s-s-a.

21 CHMN STAFFORD: Okay. Thank you. Please,
22 you have three minutes. Oh, please tell us where you're
23 from.

24 MS. DEMATOS: I'm in Chandler, but I travel
25 a lot, and I go to Yuma -- I mean, Tucson sometimes.

1 CHMN STAFFORD: Okay.

2 MS. DEMATOS: I have MCS, multiple chemical
3 sensitivities, and there is a lot of people that come to
4 Arizona because they're too sick and they live in their
5 cars, so it's just easier to be here, at least in the
6 winter. So I'm just looking out for us that we already
7 have a really hard time dealing with the air quality and
8 we just don't need anything else to get worse. So, yeah,
9 I just think we should -- we should know the facts on the
10 environment and people. That's all.

11 CHMN STAFFORD: Thank you.

12 Thank you. Next up we have Alyssa
13 Belpedio, do you wish to speak, Alyssa?

14 MS. BELPEDIO: I'm just listening in.
15 Thank you.

16 CHMN STAFFORD: Hello?

17 MS. BELPEDIO: I'm just listening in.

18 CHMN STAFFORD: I can't hear what you're
19 saying. Was that a -- did you wish to speak or not?

20 MS. MORALES SANCHEZ: They said they were
21 listening in. It sounded a little bit muffled. So their
22 mic might not be working properly.

23 CHMN STAFFORD: All right. And, let's see,
24 Alondra Morales Sanchez.

25 MS. MORALES SANCHEZ: Yup, that's me, and I

1 do wish to speak.

2 CHMN STAFFORD: Please spell your last name
3 for the court reporter and tell us where you're from.

4 MS. MORALES SANCHEZ: Morales Sanchez is
5 M-o-r-a-l-e-s, and Sanchez is S-a-n-c-h-e-z, as in zebra.

6 Awesome. And I am in Phoenix, Arizona. I
7 urge you to deny the petition from UNS Electric aimed at
8 circumventing environmental reviews and scrutiny for
9 large gas power plants siting. I know I am in Phoenix,
10 so it seems like, yes, there's a big distance; however,
11 just because it is further away from me doesn't mean that
12 it's not going to affect me. It doesn't mean that it's
13 not going to affect the air quality around me. As we
14 know, air travels. It's not just going to sit there in a
15 bubble.

16 So I really want to make sure that that
17 point is loud and clear, that just because it's not
18 around me, it does not mean that it won't affect me. I
19 was born and raised in Phoenix, Arizona, so I have been
20 here my entire life. And I have seen the air quality
21 change throughout the years, and it has gotten worse.
22 It's not getting better. And I can see that also when
23 people talk about how the air quality is affecting them.
24 So I truly think that these plants must undergo a
25 thorough evaluation and obtain a Certificate of

1 Environmental Compatibility, with a careful assessment of
2 the impact compared to the necessity for such facilities.
3 I think granting this request would set a dangerous
4 precedent potentially leading to a wave of gas plant
5 sitings devoid of environmental assessment.

6 Arizona law has consistently upheld the
7 requirement for a CEC, even for individual thermal
8 generating units below 100 megawatts. There is no valid
9 basis for departing from this precedent. If the UNS
10 Electric succeeds, it could prompt other utilities like
11 TEP, SRP, and APS to follow suit, stripping regulatory
12 oversight from gas projects and limiting the authority of
13 the AZ Siting Committee solely to transmission lines.
14 Given the lack of legal justification for the UNS
15 Electric's proposal, it should be dismissed.

16 The role of the AZ Power Plant and Line
17 Siting Committee is crucial in evaluating the impacts of
18 the power plants on various aspects, such as communities,
19 land, water, and air quality. These plants contribute to
20 air pollution, consume significant amounts of water, and
21 have adverse effects on land, wildlife, public health,
22 and climate, especially public health. We know that in
23 these recent years the public health is becoming worse.
24 We're seeing more heart disease. We're seeing more other
25 issues, and these -- this pollution exacerbates those

1 issues in our elderly, in our populations that are
2 vulnerable, in our unhoused folks. So I urge you to
3 really put people's health over all of these things.

4 So, furthermore, they can generate noise
5 pollution and disrupt our skies and concerns that they
6 may not be addressed by other entities. So I think it is
7 imperative that the Arizona Power Plant and Lining
8 Committee [sic] actively work to mitigate these impacts
9 and carefully weigh them against the necessity for such
10 facilities. So, again, I urge you to vote against the
11 UNSE request to create -- or to not undergo the
12 evaluation for these power plants.

13 And thank you very much.

14 CHMN STAFFORD: Thank you. Thank you.

15 All right. Next up, we have Kate Bowman.

16 MS. BOWMAN: Good morning, I would like to
17 speak.

18 CHMN STAFFORD: Please proceed. You have
19 three minutes.

20 MS. BOWMAN: Thank you. Good morning,
21 Chairman and Committee Members. My name is Kate Bowman
22 and I'm the regulatory director for Vote Solar. Thank
23 you for the opportunity to provide public comment today.
24 Vote Solar is a 501(c)(3) nonprofit organization, working
25 to realize a transition to clean energy that puts people

1 at its center, which is to say a transition that's not
2 only clean, but affordable and reliable. I'm not an
3 Arizona resident, but Vote Solar has over 6,000 members
4 in Arizona.

5 We respectfully request that the Committee
6 reject UNSE's application for a disclaimer of
7 jurisdiction for the Black Mountain Expansion Project and
8 require the project to file a Certificate of
9 Environmental Compatibility and undergo the regular
10 review process. The novel interpretation of ARS 40-360
11 side-steps the Committee's important role to balance the
12 need for new power plants with reasonable considerations
13 that protect the health and well-being of Arizonans.

14 The CEC review process is not just about
15 environmental compatibility. The statute also requires
16 the Committee to consider other important factors, like
17 the impacts, not only the impacts on fish, wildlife, and
18 plant life, but also factors like how a new power plant
19 will impact other plans for development near the site,
20 noise, recreational access, scenic and historic areas,
21 and how the cost of the power plant will affect end user
22 consumers of electricity.

23 The Black Mountain Expansion Project is
24 capable of producing 200 megawatts of power, which is
25 clearly above the 100-megawatt at which a CEC is

1 required. UNSE's interpretation undermines the intent of
2 the statute and stands contrary to how it has been
3 interpreted and applied in Arizona for decades. Growing
4 energy demand is driving the need for new energy
5 resources in Arizona, and power plants built today are
6 likely to remain in use for decades. And so the CEC
7 review process is more important now than ever, and we
8 urge the Committee to require a CEC for this project.
9 Thank you.

10 CHMN STAFFORD: Thank you.

11 Next up we have Riyla Robinson. Do you
12 wish to speak?

13 (No response.)

14 CHMN STAFFORD: All right. Next up we have
15 Jason Moyes.

16 (No response.)

17 CHMN STAFFORD: All right. Moving on to
18 Amber Parker.

19 MS. PARKER: No public comment. Thank you.

20 CHMN STAFFORD: Next up, Michael Barrio.
21 Do you wish to speak?

22 MR. BARRIO: Good afternoon. My name is
23 Michael Barrio, and I'm here today to testify on behalf
24 of Advanced Energy United.

25 Advanced Energy United strongly urges the

1 Commission to reject UNSE's legal argument that they do
2 not need to undergo a CEC review. Our organization
3 represents over 100 companies across the energy
4 landscape, many of which have made significant
5 investments in Arizona. Their continued ability to
6 expand and contribute to the state's economic growth
7 relies on a consistent and predictable regulatory
8 environment. They claim that they can bypass the CEC
9 review by dividing their project into four individual
10 units directly contradicts ARS 40-360.03, which clearly
11 states that every utility planning to construct a plant,
12 transmission line, or both, in Arizona shall first file
13 with the Commission an application for a Certificate of
14 Environmental Compatibility.

15 Approving that argument would set a
16 dangerous precedent, allowing utilities to circumvent
17 statutorily required reviews in the future, which defeats
18 the intent of ARS 40-360.03, and creates an unpredictable
19 regulatory environment for all stakeholders. So we
20 strongly urge the Commission to vote no on UNSE's request
21 regarding the CEC review. By doing so, we believe that
22 you'll protect ratepayers' interests, maintain the
23 integrity of the regulatory environment, and promoting
24 transparency in Arizona.

25 Thank you for your time and consideration.

1 CHMN STAFFORD: Thank you.

2 Next up we have David Robinson.

3 MR. ROBINSON: Yes, hello. I would like to
4 make comments. My name is David Robinson. I live and
5 work in Tucson. I am the director of advocacy and
6 education for the Tucson Audubon Society, which is a
7 501(c)(3) nonprofit organization dedicated to inspiring
8 people to enjoy and protect birds and their habitats
9 through recreation, education, wildlife conservation,
10 advocacy, and protection and preservation of the
11 environment on which we all depend.

12 I'm speaking on behalf of the organization
13 and our more than 3200 members in Southeast Arizona and
14 elsewhere around the state. We strongly urge the
15 Committee to reject UNSE's legal argument. Tucson
16 Audubon is extremely concerned about the precedent that
17 approval of UNSE's argument would set, and the likelihood
18 that Tucson Electric Power and other power companies
19 would follow in UNSE's footsteps.

20 As in other states, power companies in
21 Arizona profess to serve the public interest, but too
22 often put their own profits above the public interest.
23 This attempt by UNSE to evade environmental review is yet
24 another instance of such behavior.

25 Arizonans need affordable energy, of

1 course, as well as clean air, water, and land. And
2 Arizona's wildlife need clean air, water, and land as
3 well. Power plants too often pollute our air, use
4 significant amounts of water, a very scarce resource, and
5 negatively affect our land, wildlife, health, and
6 climate.

7 Tucson Audubon is especially concerned
8 about climate, because of its impact on both people and
9 wildlife, and we're very concerned about the huge impact
10 that methane has on climate change. Like some other
11 speakers today, Tucson Audubon Society urges the
12 Committee to vote no on the UNSE request to create a
13 loophole in the siting of larger power plants.

14 Thank you for the opportunity to submit
15 these comments.

16 CHMN STAFFORD: Thank you.

17 Up next we have Stephen Cook. Do you wish
18 to make comment?

19 MR. COOK: Thank you. I'm Stephen Cook,
20 S-t-e-p-h-e-n, C-o-o-k. I live in Prescott. I wish to
21 speak.

22 CHMN STAFFORD: Please proceed.

23 MR. COOK: I have a master's degree in
24 physics from UCLA, but let's forget all credentials, but
25 one, common sense. Suppose we show a child two identical

1 pizzas, one of which we cut into four pieces. We ask the
2 child does the cut-up pizza have more or less pizza than
3 the whole one? We applaud the kid for saying both have
4 the same.

5 Likewise, common sense tells us that the
6 cumulative fossil fuel-based energy generation is what
7 environmentally matters, and 200 megawatts of electrical
8 power has roughly the same environmental impact whether
9 it comes from one 200-megawatt unit or four 50-megawatt
10 gas-fired generators. Cumulative power rating matters,
11 not the separate size of the individual units.

12 Can we apply this to Arizona law relevant
13 to us today? Yes, to the extent that common sense
14 matters. But I want to raise another environmentally
15 based legal concern and introduce some dispute, where
16 earlier it was suggested there was none. Specifically,
17 given the key definition of a plant in Arizona 40-360
18 written in 1971, that uses thermal electric, to name a
19 generating unit type. Because of this we can't be sure
20 what the 100-megawatt also sited there means. Does it
21 mean megawatts thermal power or megawatts electric power?
22 I repeat, does it mean megawatts thermal power or
23 megawatts electrical power. In environmental terms, I'd
24 say knowing the plant's total power input that is its
25 megawatt thermal power is more important than its output.

1 Of course, these terms are related by the
2 energy conversion efficiency, a term nowhere to be found
3 in UNS Electric's 149-page application. Based on data it
4 provides there for proposed 50-megawatt units, I
5 calculate the efficiency to be 38 percent. With
6 38 percent to get 50 megawatts electric out, we must put
7 in 132 megawatts thermal. To get the proposed 60
8 megawatts mentioned earlier today, to get 60 megawatts
9 out, we have to put 158 megawatts thermal in. Both these
10 numbers exceed the stipulated 100 megawatts, and this
11 muddies the legal waters.

12 The relevant Arizona law should have been
13 written differently. But because of its ambiguity we can
14 nonetheless interpret it in the most environmentally
15 responsible way. That interpretation says that UNS
16 Electric's proposed either 132-megawatt gas -- I'm sorry,
17 132-megawatt thermal or 158-megawatt thermal, either 50
18 megawatts electric, 60 megawatts electric, the thermal
19 megawatts exceed the 100 megawatts stipulated in law.
20 Therefore, they should be legal -- UNS Electric should be
21 legally required to apply for a Certificate of
22 Environmental Compatibility.

23 Thank you.

24 CHMN STAFFORD: Thank you.

25 All right. Riyla Robinson.

1 (No response.)

2 MS. ROBINSON: Can you hear me?

3 CHMN STAFFORD: Yes.

4 MS. ROBINSON: Thank you. My name is Riyla
5 Robinson. I am a resident in Maricopa, Arizona. I'm a
6 small business owner and a planet activist.

7 I urge you to reject UNSE's legal argument.
8 The proposed legal loophole by UNS alleges to bypass
9 environmental reviews for large gas power plants in
10 Arizona is not supported by state statute. Preventing
11 this request is crucial to prevent potential negative
12 impacts on the environment. It is essential for these
13 larger plants to undergo a thorough evaluation and obtain
14 a Certificate of Environmental Compatibility to assess
15 their impacts against the necessity for such facilities.

16 Allowing this loophole to set a dangerous
17 precedent leading to an influx of gas plants sitting
18 without power invites scrutiny. UNSE's argument that
19 individual thermal generating units under 100 megawatts
20 do not require a CEC goes against established Arizona law
21 and should not be entertained. If successful, other
22 major utilities, like APS, SRP, and TEP may follow suit.

23 Stepping away regulatory oversight and
24 limiting the authority of the Arizona Line Siting
25 Community [sic] is clearly UNSE's request lacks legal

1 basis and should be dismissed to protect Arizona's
2 environment and regulatory structure.

3 I'm asking you to protect consumers and
4 reject UNSE's legal attempt to circumvent oversight of
5 their resources decision where the impacts of projects
6 are considered and require a SEC [sic] for this project.

7 Thank you.

8 CHMN STAFFORD: Thank you.

9 Is there anyone else online that wishes to
10 make public comment that hasn't already spoken? Please
11 raise your hand.

12 (No response.)

13 CHMN STAFFORD: Seeing none, that concludes
14 public comment.

15 Before we move to the applicant's
16 presentation of its case in chief, let's go ahead and
17 take a short recess for about 10 minutes.

18 We stand in recess.

19 (Recessed from 11:16 a.m. until 11:31 a.m.)

20 CHMN STAFFORD: Ms. Grabel, is the
21 applicant ready to present its direct case?

22 MS. GRABEL: We are, your Honor -- or
23 Mr. Chairman. Thank you.

24 CHMN STAFFORD: Please call your witnesses.

25 MS. GRABEL: All right. Thank you very

1 much. I call Mr. Clark Bryner and Mr. Dylan Bearce.

2 CHMN STAFFORD: Mr. Bryner, would you
3 prefer an oath or affirmation?

4 MR. BRYNER: An oath.

5 (Clark Bryner was duly sworn by
6 the Chairman.)

7 CHMN STAFFORD: Mr. Bearce, an oath or
8 affirmation?

9 MR. BEARCE: An oath.

10 (Dylan Bearce was duly sworn by
11 the Chairman.)

12 CHMN STAFFORD: Thank you.

13 Ms. Grabel, please proceed.

14 MS. GRABEL: Thank you, Mr. Chairman.

15

16 CLARK BRYNER AND DYLAN BEARCE,
17 called as witnesses as a panel on behalf of Applicant,
18 having been previously affirmed or sworn by the Chairman
19 to speak the truth and nothing but the truth, were
20 examined and testified as follows:

21

22 DIRECT EXAMINATION

23 BY MS. GRABEL:

24 Q. Mr. Bryner, please state your name and business
25 address for the record.

1 A. (MR. BRYNER) My name is Clark Bryner. My
2 business address is 88 East Broadway, Tucson, Arizona.

3 Q. By whom are you employed and in what capacity?

4 A. (MR. BRYNER) I'm employed by Tucson Electric
5 Power and UNS Electric as the manager of siting,
6 outreach, and engagement.

7 Q. And I won't ask you to go through your
8 qualifications now, because I know you talk to them on a
9 PowerPoint presentation you'll be giving momentarily, but
10 what is your role in this matter?

11 A. (MR. BRYNER) For this particular project, my
12 role has been to oversee the filing of our request for a
13 disclaimer of jurisdiction from the Arizona Power Plant
14 and Transmission Line Siting Committee, as well as to
15 oversee the preparation of the accompanying
16 Certificate -- the application of a Certificate of
17 Environmental Compatibility and the supporting exhibits.

18 Q. Thank you. And, Mr. Bearce, turning to you,
19 would you please state your name and business address for
20 the record.

21 A. (MR. BEARCE) Yes, ma'am. Dylan Bearce. I work
22 for Tucson Electric Power and UNS Electric. And my
23 business address is 88 East Broadway, Tucson, Arizona.

24 Q. Thank you. By whom are you employed and in what
25 capacity?

1 A. Tucson Electric Power and UNS Electric, and I am
2 the senior director of energy resources operations.

3 Q. What is your role in this matter?

4 A. My role is as technical expert and project lead
5 for the development and diligence of this project.

6 Q. Thank you. And we won't have the opportunity to
7 have you present your qualifications on a slide, so if
8 you would, can you please talk a little bit about your
9 background. How long have you been involved in power
10 plant operations?

11 A. (MR. BEARCE) Sure. So I'm approaching 25 years,
12 and I've worked at various capacities. I started my
13 career at two 790-megawatt coal-fired super critical
14 power plants, so more of a traditional steam turbine
15 facility. I started off as a high-voltage maintenance
16 electrician working on everything from generators,
17 excitation systems, motor control centers, program logic,
18 a lot of technical stuff, but electrical everything in
19 the plant was really my job.

20 Then moved on to be a journeyman mechanic and
21 catch gnats in a hearing -- apologize for that -- moved
22 on to becoming a journeyman of maintenance mechanic, it
23 was called a power plant mechanic A, but it involved
24 welding certificates where I was doing pressure vessel
25 work, I had to do machining, you know, on lathes and

1 mills and then essentially managing and repairing all
2 mechanical components of a power plant.

3 I then changed roles and moved in to be a power
4 plant mechanic, and so then I moved into operating
5 facilities of the same facility. So spent numerous years
6 there. In 2006 I then moved over to Tucson Electric
7 Power, moved into Tucson at the Sundt Generating Station,
8 and performed numerous functions there -- I'll stay high
9 level, you can ask questions if you want clarification.
10 But I moved into plant operations, was then a control
11 room operator, a shift supervisor, I oversaw is a NERC
12 compliance program. I was responsible for all technical
13 and soft skills training for our entire fossil fleet. I
14 did all of our aptitude testing program and a lot of
15 other technical things there.

16 In parallel with that role I was an adjunct
17 faculty at Pima Community College and working as a
18 national consortium with a lot of the neighboring
19 utilities building a pipe plan recruitment and a set of
20 technical skills to recruit people in the utility sector.

21 Later, I then was promoted to the director of
22 Tucson Power production, where I oversaw five power
23 plants, three of which were Tucson Electric Power, two
24 are UNS Electric. I oversaw 13 simple cycles, four steam
25 turbine gensets, and 10 RICE engines. I have been

1 responsible for numerous things, including all the
2 engineering maintenance, business, finance, regulatory
3 compliance, environmental, responsible official, you name
4 it.

5 A couple years ago, I then moved into the role
6 I'm in today as senior director. I'm now responsible for
7 all of our wind, solar, bulk energy storage, wholly owned
8 and operated, as well as our thermal resources, except
9 for coal. So our joint-owned units, as well as our
10 wholly owned and operated facilities is my current role.

11 I also have got some extra credentials I think
12 that are germane to this is I'm a train the trainer with
13 TapRoot Root Cause Analysis protocols and investigations,
14 as well as predictive maintenance protocols, but I think
15 that's a high level of my qualifications. And I'm
16 certified through NCCER, through a number of curriculum
17 that I think are relative to the technical components of
18 this discussion.

19 Q. Thank you very much, Mr. Bearce.

20 Turning back to you, Mr. Bryner, you heard
21 AriseIA's counsel during her opening statement describe a
22 LM6000 as a, quote, turbine.

23 Do you agree with that characterization?

24 A. (MR. BRYNER) I wouldn't agree with that. An
25 LM6000 is a generating unit, comprised of both the

1 turbine and the generator.

2 Q. Thank you. And you perhaps heard counsel from
3 Western Resource Advocates say during her opening
4 statement that without a CEC process, there would be no
5 environmental review associated with the new units.

6 Do you agree with that statement?

7 A. So no, I don't. Typical to any development
8 project there's a number of permits that are required, so
9 the CEC is potentially one, you know, in regulatory
10 approval. But apart from that, you've got different
11 triggers that might trigger other things. I wrote down a
12 few, this is certainly not all-encompassing, but you've
13 got local ordinances, things like zoning, different plans
14 that might trigger other things. You've got an air
15 permit that you would need to secure under the Clean Air
16 Act. You've got a storm water pollution prevention plan
17 that you would need, due to the grading. Potential Clean
18 Water Act permits 404 or 401 water quality certification.
19 Dust control permits aquifer protection permits. Any of
20 these might trigger. Potential Endangered Species Act.
21 Compliance.

22 So there's, again, not exhaustive, but there are
23 a number of environmental oversights and permits that are
24 still required.

25 Q. Thank you very much.

1 And with that, if you would turn to Exhibit
2 UNSE-4, which is your PowerPoint presentation.

3 And, Mr. Chairman, I'm not laying foundation for
4 the exhibits, correct, they've already been admitted?

5 CHMN STAFFORD: They've all been admitted.
6 They've been stipulated to and admitted. Thank you.

7 MS. GRABEL: Excellent.

8 Q. Then let's just go ahead and walk through your
9 PowerPoint presentation, Mr. Bryner.

10 A. (MR. BRYNER) Thank you. Can we pull up -- there
11 we go.

12 MS. GRABEL: And, Mr. Chairman, if I would,
13 I would note for the record that there's one difference
14 between the presentation that's being displayed on the
15 screen and UNSE-4 is that we've added page numbers just
16 to help us follow. But other than that it's identical.

17 CHMN STAFFORD: I'll allow it. Please
18 proceed.

19 MR. BRYNER: One moment. I've got a
20 technical issue.

21 All right. Maybe -- there we go. I wanted
22 to make sure I had a laser pointer.

23 MEMBER KRYDER: Mr. Bryner --

24 CHMN STAFFORD: Member Kryder.

25 MEMBER KRYDER: What tab are we looking at

1 in the books? Do you have that or shall we just follow
2 it on the screen?

3 MS. GRABEL: It is Exhibit UNSE-4,
4 Mr. Kryder, but you're also welcome to follow it on the
5 screen, whatever's easier.

6 MEMBER KRYDER: It will be identical.

7 MS. GRABEL: It's identical, except, as I
8 noted, the one on the screen has page numbers.

9 MEMBER KRYDER: Thank you.

10 MR. BRYNER: Okay. So my current role as
11 the manager of siting outreach and engagement for both
12 TEP and UNSE. In this role I'm responsible for siting
13 and receiving regulatory approval for all new
14 transmission lines, as well as thermal generation
15 facilities.

16 Specific to the Black Mountain Generating
17 Station Expansion Project, as I just mentioned, my role
18 has been to oversee filing our request for a disclaimer
19 of jurisdiction from the Committee here, as well as
20 preparing the Certificate of Environmental Compatibility
21 application and those supporting exhibits.

22 I have a B.A. in geography and a M.S. in
23 bioregional planning, both from Utah State University.
24 I'm an active member of the American Planning
25 Association, and I'm a certified planner, which is a

1 certification that I've had since 2011. I have over 18
2 years of experience in the electric utility industry,
3 primarily with TEP and UNSE, where I worked in a variety
4 of different roles, including more than 10 years of
5 experience in maintenance planning and asset management,
6 where I had direct responsibility and oversight over our
7 transmission system. I also had an additional six years
8 in environmental planning and permitting roles, where I
9 worked on a number of different transmission line siting
10 projects, as well as solar and wind development projects
11 for several utilities and developers throughout the
12 western United States.

13 Let's see, so in accordance with statute,
14 UNSE filed the plan with the Arizona Corporation
15 Commission on November 6, 2023. That was more than 90
16 days before filing the request for a disclaimer of
17 jurisdiction and a CEC application, which we did on
18 March 8th of 2024. And shown on the screen is an image
19 of that plan that we filed.

20 And, in accordance with statutory
21 requirements and the procedural order that was issued by
22 Chairman Stafford at the prefiling conference that was
23 held on February 28, 2024, UNSE has taken the following
24 actions: So, first of all, we published the notice of
25 hearing in not one, but two, newspapers of general

1 circulation within 10 days of filing the request for a
2 disclaimer of jurisdiction and the CEC application. The
3 notice was published in the Kingman Miner on March 13th
4 and 20th, 2024. The Kingman Miner is a newspaper that's
5 generally circulated in and around the city of Kingman.
6 And in addition, the notice was published in Today's News
7 Herald on March 15th on 17th of 2024. And Today's News
8 Herald is a newspaper that's generally circulated in and
9 around the city of Lake Havasu.

10 Temporary physical signs at four prominent
11 locations along major roadways in the vicinity of the
12 project site were installed on March 20th, 2024. These
13 locations were approved by Chairman Stafford at the
14 prefiling conference. These signs are each 24 inches
15 wide by 36 inches tall, and they included the date, time,
16 and location of the hearing, how to participate in the
17 hearing and provide comment, as well as the project web
18 page and telephone line, if someone wanted more
19 information.

20 On the screen now are two examples of the
21 temporary signs that were installed. Sign one is located
22 just west of I-40 on Griffith Road. And sign three is
23 located near the intersection of Shinarump Drive and
24 Oatman Highway, which is better known as Historic
25 Route 66.

1 UNSE conducted a targeted social media ad
2 campaign beginning April 8th and continuing through today
3 on both Facebook and Instagram. The target area included
4 an 11-mile radius that was centered on our project site.
5 The advertisement linked to the project web page where
6 more information on the hearing and the proposed project
7 could be found. As of yesterday, the Facebook and
8 Instagram ads reached 22,215 people, with 31,544
9 impressions, which are the number of times the ad was
10 displayed, and had 674 clicks. So that equals the
11 click-through rated 2.1 percent. And what that means is
12 for every 100 people who saw the ad a little over two
13 actually clicked on it to get more information.

14 Physical copies of the request for a
15 disclaimer of jurisdiction in the application were
16 provided for public viewing in two locations. A copy was
17 provided to both the Kingman Library and Mohave County
18 offices by certified mail and were received on
19 March 14th, 2024. Notice of the hearing was sent by
20 certified mail to jurisdictions that were identified as
21 being potentially affected by the project. Letters were
22 sent to Bullhead City, Lake Havasu City, and the City of
23 Kingman, on March 12th, 2024. And to Mohave County on
24 March 20th, 2024.

25 In addition, to the notice requirements,

1 UNSE maintains a project web page that's easily
2 accessible from our company's main project site. On the
3 site interested parties can find an online comment form
4 where they can provide feedback on the project. There's
5 also a project-specific e-mail address and a telephone
6 line for those who ask specific questions and they'd like
7 to reach out to someone to get a specific response.

8 So UNSE has offered briefings on the
9 project to local elected officials and stakeholders. To
10 date, we've briefed two County Supervisors, and the
11 administration of the City of Kingman, including the
12 mayor, the vice mayor, and the City manager. All have
13 received the project information fairly well and have
14 been generally supportive of the project.

15 In addition, we met with several
16 stakeholder groups, including the GEO Group, they run a
17 prison that's located about one mile southwest of the
18 project site. We also met with the Government Affairs
19 Committee and the Partnership for Economic Development,
20 which are both associated with the Lake Havasu City
21 Chamber of Commerce. Again, all were generally
22 supportive of the project. The only concern that was
23 raised was from the GEO Group. They wanted to ensure
24 that we had a coordinated safety plan with them in the
25 event there was a situation at the plant.

1 So I'd now like to pivot to share some
2 details on the proposed project and background for UNSE's
3 request for the disclaimer of jurisdiction. So to start
4 off, just a little bit of background on the Company. UNS
5 Electric is a branch of UniSource Energy Services, which
6 is under the parent company of UNS Energy, which is also
7 the parent company of Tucson Electric Power. UNS
8 Electric includes a noncontiguous service territory of
9 approximately of 8,000 square miles, which covers
10 portions of Mohave County and Santa Cruz counties. UNS
11 Electric serves approximately 102,000 electric customers
12 and a population just over a quarter of a million.

13 For purposes of this request, we'll focus
14 on the service territory in Mohave County. So there are
15 a number of local UNSE energy resources, including
16 thermal generation at the Black Mountain Generating
17 Station, along with several solar sites and a wind farm.
18 Apart from UNSE's energy resources, there's other
19 generation resources in Mohave County that I don't have
20 shown on the map.

21 The existing Black Mountain Generating
22 Station is located approximately 12 miles southwest of
23 the City of Kingman in unincorporated Mohave County, as
24 it's shown in that red box on the slide.

25 There are two generating units that are in

1 operation today and both commissioned in 2007. The
2 current units are GE LM6000 SPRINT gas-fired combustion
3 turbines. Each of the two separate units has a nameplate
4 generating capacity of 61 megawatts. UNSE is proposing
5 the use of generating units that are very similar to
6 these two existing units in the expansion of the station.

7 BY MR. GRABEL:

8 Q. Mr. Bryner, before you continue, you used the
9 phrase "generating units," to what are you referring when
10 you use that phrase?

11 A. (MR. BRYNER) I'm generally referring to the
12 turbine and the generator.

13 Q. The Arizona Corporation Commission's resource
14 planning rules define generating unit as, "A specific
15 device or set of devices that converts one form of
16 energy, such as heat or solar energy, into electric
17 energy, such as a turbine and generator."

18 Is that consistent with your usage of the term
19 "generating unit"?

20 A. (MR. BRYNER) Yes.

21 Q. How are generating units different from a
22 generating station?

23 A. (MR. BRYNER) So a generating station is going to
24 be the overall facility or the campus. So it's going to
25 consist of more than just the generating units. It's

1 also going to have your maintenance buildings, offices,
2 and any other uses. So the Black Mountain Generating
3 Station, it has, you know, the two units, Unit 1 and Unit
4 2 there today, along with those other facilities I just
5 mentioned and that comprises the station.

6 CHMN STAFFORD: Quick follow-up question
7 there. You're talking about a generator and a turbine.
8 Let me make sure I understand this correctly. The
9 turbine is what burns the gas and spins and then it --
10 the generator is a separate device that it -- that it
11 powers to generate the electricity, correct?

12 MR. BRYNER: Correct.

13 CHMN STAFFORD: Okay.

14 MS. GRABEL: And we have pictures of each
15 of those coming up.

16 CHMN STAFFORD: Great, I look forward to
17 that. Please proceed.

18 BY MS. GRABEL:

19 Q. Is it common for a generating station to be
20 comprised of multiple units?

21 A. (MR. BRYNER) It is, as I mentioned just now, the
22 Black Mountain Generating Station that has Units 1 and 2.
23 Another example with UNSE is our Valencia Station, it's
24 located in Nogales that has four different units.

25 Q. Can you point to the two generating units on

1 this picture?

2 A. (MR. BRYNER) So I'm going to try to circle this,
3 this with the laser pointer on the screen. So this is
4 Unit 2. And then Unit 1 is kind of obscured a little bit
5 by the cooling tower here, but it is located in this
6 area.

7 Q. Are these two generating units adjoined in any
8 way?

9 A. (MR. BRYNER) No.

10 Q. There are multiple pieces of equipment located
11 between and around them, which I know you're going to get
12 into. For now, do those additional facilities physically
13 connect the two generating units in any way?

14 A. (MR. BRYNER) No.

15 Q. About how far away are the units located from
16 one another?

17 A. (MR. BRYNER) They're about 1- to 200 feet.

18 Q. Can the units be individually dispatched?

19 A. (MR. BRYNER) Yes.

20 Q. Are they individually dispatched as a matter of
21 practice?

22 A. (MR. BRYNER) They are.

23 Q. Thank you. Please continue.

24 A. (MR. BRYNER) So about two miles northeast of the
25 Black Mountain Generating Station sits the Griffith

1 Energy Power Plant. It's not uncommon for folks to
2 confuse the Griffith Plant and the Black Mountain site
3 because they're so close together. In fact, a lot of
4 people even within the Company get them confused and have
5 gotten them confused.

6 However, the Griffith plant is a 600-megawatt
7 plant and is quite a bit larger when you compare them
8 side by side. So on the screen we've created an image
9 for comparison purposes that illustrate the scaled
10 silhouette of the Griffith Energy Plant superimposed over
11 the Black Mountain station.

12 CHMN STAFFORD: Now, the Griffith plant
13 that's a combined-cycle plant, not a single-cycle plant;
14 is that correct?

15 MR. BRYNER: That's correct.

16 CHMN STAFFORD: And the turbines --
17 existing turbines at Black Mountain Generating Station
18 are single cycle, correct?

19 MR. BRYNER: Correct.

20 MEMBER FONTES: Mr. Chairman, did you say
21 "single" or "simple"?

22 CHMN STAFFORD: Single. Single, simple,
23 they're a CT, right, they're not a combined cycle, they
24 don't have the separate --

25 MEMBER FONTES: Are you talking about an

1 open cycle or a single cycle?

2 MR. BRYNER: I might defer to my colleague,
3 Dylan Bearce for this, because in my terminology they're
4 simple, but let's see.

5 MR. BEARCE: Did you have a point to
6 clarify before I --

7 MEMBER FONTES: Can you clarify, is that
8 open cycle, simple cycle, or single cycle?

9 MR. BEARCE: Yeah, so simple and single are
10 oftentimes interchanged, but "simple cycle" is the more
11 commonly used term.

12 MEMBER FONTES: Is that the term used by GE
13 in the install? And that you use with the insurance
14 company, can you verify for us?

15 MR. BEARCE: I would have to double-check
16 what we filed with the insurance company. A lot of times
17 we use, depending on what they ask and how they classify
18 it, so I'd have to follow up on the specific usage.

19 MEMBER GOLD: Mr. Chairman?

20 CHMN STAFFORD: Yes, Member Gold.

21 MEMBER GOLD: Question for the expert. Are
22 they GE LM6000 SPRINT generators, are there 10 of them
23 there to get the 600, to get the wattage?

24 MR. BEARCE: Excuse me, are you referring
25 to the Griffith Power Plant?

1 MEMBER GOLD: Yes.

2 MR. BEARCE: The Griffith Power Plant
3 they're not GE LM6000s that are in consideration for
4 Black Mountain Generating Station, they're a different
5 make and model for that site, and it's a different
6 technology used.

7 MEMBER GOLD: How many of them are there?

8 MR. BEARCE: I think those are -- go ahead.

9 MR. BRYNER: I was just going to say that
10 the Griffith Power Plant is not UNSE's plant, so we're
11 not really experts on that.

12 CHMN STAFFORD: But it's a different type
13 of turbine and plant that they're proposing. Like, the
14 Griffith one is a combined cycle, and those are -- they
15 take longer to start up and turn off. And they want to
16 run them more consistently. They're not quick start on
17 and off like the simple cycles that they're using for the
18 existing Black Mountain and the proposed.

19 MEMBER GOLD: The reason I was asking is I
20 know there's a 6,000-megawatt generator; is there a
21 24,000-watt or 200,000-watt generator that you could have
22 used in place of the 6000s to get the same wattage?

23 MR. BEARCE: So they're not -- they're
24 rated at the nameplate capacity, at the 71,000 estimated
25 kVA rating, with the power factor they're approximately

1 61-megawatt-rated generators, but they don't produce that
2 much power.

3 MEMBER GOLD: Are there larger generators
4 is my real question.

5 MR. BEARCE: Yes, there are larger
6 generators.

7 MEMBER GOLD: How large can they be?

8 MR. BEARCE: The largest I've operated
9 personally is close to 800 megawatts.

10 MEMBER GOLD: Thank you.

11 CHMN STAFFORD: Please proceed, Ms. Grabel.

12 MS. GRABEL: Thank you.

13 Q. Mr. Bryner.

14 A. (MR. BRYNER) Okay. I'd now like to orient you
15 to the site of the existing Black Mountain Generating
16 Station, which is shown on the screen, with an aerial
17 image and the site is located just south of Yucca Drive,
18 which you can see across the north of the -- the north --
19 the top side of the slide and Yuma Road, and I'm going to
20 zoom in a little closer on the site now.

21 So on the screen now you have a zoomed-in
22 version of that same aerial image that I previously
23 displayed showing the existing Black Mountain site. In
24 addition, it includes a schematic of the general
25 arrangement of the proposed expansion. The schematic is

1 symbolized with shapes of two main colors. Blue
2 represents equipment that is specific to each proposed
3 generating unit. Gray represents equipment that would be
4 shared between the two. Or, sorry, between either two or
5 possibly all four of the proposed generating units.

6 Since the existing facilities are very similar
7 to what UNSE is proposing to use in the expansion, I'd
8 like to use equipment from the existing site to orient
9 you on the proposed new facilities.

10 Q. Mr. Bryner, before you leave, if I could please
11 briefly interrupt you. If you could again point to the
12 existing two units in this aerial view, do you see that,
13 and point out the cooling tower. Further up north.

14 A. (MR. BRYNER) Unit 2 is right here. Sorry, it's
15 hard to control this mouse for some reason, probably
16 because of the distance. Unit 1 is right here. And the
17 cooling tower is right here in between.

18 Q. So from this aerial vantage, the cooling tower
19 appears to connect the two units. Does it physically
20 connect the two units?

21 A. (MR. BRYNER) Yeah, it does appear that way. The
22 cooling tower has piping that goes into Unit 1 and Unit 2
23 separately. And it goes to separate cooling coils where
24 there's separate temperature controls within each unit.

25 Q. Is the cooling tower necessary for either of the

1 two generating units to run?

2 A. (MR. BRYNER) No, it's not, and in fact, it's
3 sort of optional. We only run it really during the peak
4 summer months. It helps with efficiency.

5 Q. And you note in the schematic that the
6 individual components are shown in blue, and the shared
7 components are shown in gray.

8 Do any of the shared facilities physically
9 connect the proposed four generating units?

10 A. (MR. BRYNER) No.

11 Q. Do any of them physically connect the new units
12 to the existing units?

13 A. (MR. BRYNER) No.

14 Q. Are any of the shared facilities involved in the
15 conversion of energy to electricity?

16 A. (MR. BRYNER) No.

17 Q. As a matter of practice, could all of the
18 equipment be cons- -- all of the shared equipment be
19 constructed to serve each individual unit?

20 A. (MR. BRYNER) Sure, yeah.

21 Q. Why not do that?

22 A. (MR. BRYNER) So we don't do that out of just a
23 matter of efficiency. A lot of those shared facilities
24 are capable of supporting more units. And so we try to
25 be really prudent with any of our expenditures. And so

1 since we can use them to leverage that on more than one
2 generating unit, we do that.

3 Q. All right. Thank you. And I know you're going
4 into greater detail as to the specific components, so
5 please proceed.

6 A. (MR. BRYNER) All right. So let's go ahead and
7 start with the generator -- the generators themselves.
8 The locations of the existing two generators and the four
9 proposed new generators are outlined in yellow. The
10 image on the screen is of the existing Unit 2 generator.
11 The generators are separate and specific to each
12 generating unit.

13 So on this photo of the generator, you can see a
14 nameplate that's highlighted in that red circle, if you
15 can see that. The nameplate is affixed by the
16 manufacturer to provide the equipment details and
17 specifications. So as we zoom in on the nameplate, we
18 can read the specifications for the Unit 2 generator.
19 This particular nameplate does not include the word
20 "rating," instead it uses the word "output." So "output"
21 is synonymous with "rating." So from the nameplate, we
22 learn that the rating of this unit is 71,176 kVA.

23 MEMBER FONTES: Mr. Chairman, question?

24 CHMN STAFFORD: Yes, Member Fontes.

25 MEMBER FONTES: It's dry cooled or water?

1 MR. BRYNER: I'm going to refer to
2 Mr. Bearce.

3 MR. BEARCE: It's a closed-loop, air-cooled
4 system.

5 MEMBER FONTES: So it is? So it says
6 without air up there on the bottom.

7 MR. BEARCE: You're speaking to the
8 generator itself?

9 MEMBER FONTES: To the nameplate there,
10 yeah.

11 MR. BEARCE: It's an air-cooled generator,
12 I apologize.

13 MEMBER FONTES: So it's an air-cooled. So
14 it's saying without air, that would be a water-cooled on
15 the bottom of the nameplate, hard to read?

16 MR. BEARCE: I'd have to see a zoomed-in
17 picture.

18 MEMBER FONTES: I just want to make sure
19 we're looking at the right output. Because I get where
20 it's manufactured and they use terms of art a little bit
21 different over on another continent.

22 MR. BEARCE: Yeah, yeah. So a lot of times
23 you have forced air designed into it. And where you
24 actually, as the rotor rotates you have a cooling fan
25 that will draw in air and some don't. And they're in

1 confined vessels, therefore, it's without circulated
2 forced air. And so this rating here still falls well
3 below the 100, but that would be a different rating for
4 the generator entirely.

5 MEMBER FONTES: Related question, if I may,
6 Mr. Chairman.

7 Do you have the heat rate on these two
8 units? And the operational characteristics, going back
9 16 in the dispatch. That would be very helpful to look
10 at, to see how they've been dispatched. Is there an
11 exhibit on that?

12 MEMBER KRYDER: Use the microphone just --
13 (Cross-talk.)

14 CHMN STAFFORD: Yeah, one at a time. One
15 at a time, everybody.

16 Member Fontes, could you get close to the
17 microphone, it's difficult to hear you down at this end
18 of the bench.

19 MEMBER FONTES: We're sharing resources
20 over here.

21 Question just on the operational
22 characteristics in performance of the plant, specifically
23 with respect to the dispatch, have the units been
24 dispatched in single, together, what's the
25 historical -- you've got 16 years of operation

1 performance data in there, so we're looking just --

2 MR. BEARCE: Yeah, so I'll give you -- can
3 you hear me okay? We're sharing too.

4 MEMBER FONTES: If you can point just to
5 the exhibit too for everybody.

6 MR. BEARCE: Yeah, I'm trying to find it.
7 I know that there's an exhibit with the historical runs,
8 if one of you could please support on that.

9 So the heat rate is the way we measure the
10 efficiency of the unit, and that's the -- that's the heat
11 input measured in BTUs per KW of output from the
12 generator, just so we're all level-set there. And
13 they're in that 8,000, 8,500 BTU per kilowatt hour,
14 that's the heat rate of the generating assets that are
15 there today.

16 And so they -- they're sister units is what
17 we call it, so a LM6000 is, you know, just built at the
18 same elevation and the same environmental conditions,
19 temperature, barometric pressure, you know, same
20 conditions. They'll operate very similar, but they're
21 never exact. And so you will see slight variances from
22 actual heat rate. And that will vary by season as well.
23 So, for example, in the summer you will see less output
24 because less dense air produces less dense flow, which is
25 how the machine works.

1 And so I know we do have historical data
2 about how they've been dispatched. But to answer the
3 question of their actual dispatch, they are managed
4 separately, maintained separately, and dispatched
5 separately. The peak load profile, UNS Electric -- I
6 mean, one of the drivers behind this project is that
7 we're sourcing from the market, and so they're short.
8 And so we're trying to offset that dependency on the
9 market. And so they do get dispatched at times together,
10 they absolutely do. But they are started and stopped
11 independent of one another, and there's no
12 interdependency, where if you start one you have to start
13 it to start the other. They are completely by
14 themselves.

15 As an example, the way that the GE LM6000
16 PC SPRINTs air-derivative gas turbines are maintained is
17 they're either on a frequency of hours run and you hit a
18 particular number, which triggers, you know, maintenance
19 protocols like you get with your car, right, they say at
20 so many months change your oil, do this and that. It's
21 very similar, so it's either start based or hours based
22 and once you meet that number, you've got to do major
23 work. And we call that a major overhaul, which is hot
24 gas path inspection is what you'll hear. And so that
25 work that is performed will take a unit out of service

1 while the other one can operate and still meet the system
2 demands, without any dependency whatsoever with the
3 downed unit. And those, you know, the duration of that
4 varies. And then we stagger the operation of them, so we
5 don't take both individual units out of service
6 simultaneously to where we're even more dependent on the
7 system itself.

8 And so that's the value of how we actually
9 dispatch these, and they're remotely dispatched and they
10 push start and stop on separate faceplates, et cetera,
11 and ramp them around to follow system load demand.

12 MEMBER FONTES: Mr. Chairman, I have one
13 final follow-up related to this, if I can.

14 CHMN STAFFORD: All right. Please, Member
15 Fontes.

16 MEMBER FONTES: Do you guys have separate
17 LTSAs, long-term service agreements on individual units?

18 MR. BEARCE: We do not have long-term
19 service agreements executed for the maintenance of these
20 assets. We perform most maintenance on our own. It's
21 typically more affordable when you have on-site
22 personnel, and so we do it. But more times than not, for
23 the significant, we call it overhaul, which is a term
24 that's synonymous with ratemaking, the overhaul work is
25 typically contracted just because of the tooling and the

1 specialized labor force. And the amount of people that
2 we need to bring in. And so that's not under a LTSA, but
3 we will contract with the OM to perform that more
4 complicated specialized work.

5 MEMBER GOLD: Mr. Chairman?

6 CHMN STAFFORD: One moment, please. I
7 think --

8 Is that the end of your questions, Member
9 Fontes?

10 MEMBER FONTES: I'm just wondering how you
11 keep the spares. Do you keep that separate and
12 segregated for operational and accounting purposes? I
13 mean, that's your background, so how do you give us
14 confidence that you're really operating these units
15 segregated, separated, if you can characterize -- and,
16 you know, my other question was with respect to
17 insurance, because typically you have performance
18 guarantees and operational, and I would assume they were
19 commissioned separate. And so what I'm getting at is you
20 don't have a LTSA, got it. That's an operator takes the
21 risk. How do you manage that as a plant manager so that
22 we can get that characterization along the lines of what
23 I'm asking, just for my fellow members here who probably
24 don't have as in-depth power plant background as you and
25 I do, I think.

1 MR. BEARCE: Yeah, those are great
2 questions, great line of questioning. And I think I can
3 characterize it as we have a work management system
4 that's called Maximo. And Maximo is essentially kind of
5 an administrative function tool if you want to look at it
6 from that perspective where we literally break down sites
7 generating units and we break it down by the component
8 level for unitization purposes, because we have a
9 ratemaking process, and some of this is a capital work,
10 and so we've got to be able to classify what asset that
11 capital replacement or, you know, upgrade or however it's
12 classified, what generating resource it's tied to. And
13 so our work management system is how we keep things split
14 out.

15 And we code everything according to we'll
16 say spare part A, for simplicity, is it may be an asset
17 that could be installed on any one asset, but we know
18 what it's compatible with, right? We don't actually keep
19 a lot of inventory on hand. Thankfully, LM6000s are very
20 popular, and so that's a business decision where we'll
21 decide to just source it, because we can overnight or we
22 plan a lot of the work, it's not corrective maintenance,
23 it's planned maintenance, where we'll source it from, you
24 know, third-party vendors or even General Electric in the
25 instance of the turbine compressor systems.

1 And so spare parts are tracked within our
2 Oracle system which is interfaced with Maximo, and so we
3 use these software tools to really categorize them. And
4 we identify preventative maintenance, which are
5 time-based or activity-based, performance-based, say you
6 have a differential pressure on a filter and filter shows
7 plugged, you've got to replace it. It will trigger a
8 preventative maintenance plan, a work order, we'll source
9 the filters to replace, we'll send somebody out on that
10 individual unit, we'll do that work, we'll close the work
11 order out and we're done.

12 If the other unit, let's say six months
13 down the line triggers the same alarm, we'll pull
14 inventory out and change the filters on that. So they're
15 very independent, for good reason. It's really
16 inefficient to do maintenance like there's a problem on
17 one that isn't on the other, as an example, and so we
18 track that in our work management system, which is what
19 Maximo is that we use for UNS Electric, and inventory,
20 for the most part, there's not a whole lot of on-site
21 inventory. The major part, the longer leads, are so
22 easily sourced, and that's the beauty of the LM6000 PC
23 SPRINT. So I hope that answers your question.

24 MEMBER FONTES: Thank you.

25 CHMN STAFFORD: All right. Member Gold,

1 you had a question.

2 MEMBER GOLD: Yeah, from a layman's
3 perspective, couple of things. Number one, you have a
4 turbine which spins the generator. Turbine runs on
5 methane or natural gas.

6 MEMBER KRYDER: Please use your mic.

7 MEMBER GOLD: The turbine runs on natural
8 gas, I'm guessing?

9 MR. BEARCE: That's correct.

10 MEMBER GOLD: And the turbine spins the
11 generator with specific speed. And the slower it spins,
12 the less electricity is produced. The faster it spins,
13 the more, of course based on temperature, humidity, and
14 everything else; is that a general assumption that's
15 correct?

16 MR. BEARCE: With a slight modification,
17 would it be helpful to just quickly summarize how a
18 combustion turbine works just at a high level and I'll
19 keep it simple, so --

20 MEMBER GOLD: Yes, please.

21 MR. BEARCE: So if you're in a Southwest
22 aircraft traveling, you'll look out the window on the
23 wing and you'll see the pretty little blades that have a
24 swirl so you don't walk in front of them and find
25 yourself in a bad position. That's the compressor

1 section. And so a lot of the drivers of how it performs
2 is based on the compressor section. So that physically
3 pulls in air. So we have an electric starting motor that
4 turns the entire continuous rotor which has a compressor,
5 the power turbine, the low pressure turbine, and the
6 generator, so they all spin.

7 There are four four-pole generators, and so
8 the speed doesn't change once it gets up to speed. So
9 you stay at a constant speed, but what happens is as the
10 turbine is rotating faster, it pulls in more air, the
11 stages of the compressors continue to squeeze down,
12 that's why it's in the shape of a V, so you get more air.

13 As soon as you get to the tail end of that
14 compressor, we introduce spark and fuel, and just like a
15 carburetor or something, you know, you need air and fuel
16 to mix to create combustion, that combustion happens in
17 the center between the compressor and the turbine. It
18 burns really hot, it burns really fast. And that hot gas
19 is actually what's going through -- that's why they call
20 them a gas turbine, because a fire really shouldn't be
21 coming into contact with the blades, because it's already
22 hot and pretty aggressive environment to be in.

23 So the gas from the fire, flue gas it's
24 often called, will spin through the turbine and that
25 produces thrust, so you're pulling in air and you produce

1 thrust, just like in -- I'm a private pilot, so if I get
2 too far into that weeds -- when it produces the thrust,
3 it puts more force on the turbine, and then the
4 excitation of the generator produces more energy, but
5 there's limits, because that energy produces heat, and
6 you've got to design the generator to that. So the more
7 air, the more gas, the more thrust, the more output. But
8 there's a limit to that. And that could be oxygen, it
9 could be fuel-limiting, things like that.

10 MEMBER GOLD: So basically, it's a turbo
11 jet engine turning a generator that creates the
12 electricity at a constant speed.

13 MR. BEARCE: I love it. That's exactly
14 what it is.

15 MEMBER GOLD: Okay. So that's what we've
16 got. Now, temperature, the cooling plants, as it's
17 cooler, it's more efficient, produces more electricity,
18 correct?

19 MR. BEARCE: Yup.

20 MEMBER GOLD: So on hot days, you really
21 need a lot of air passage to keep it cool enough. Can
22 you keep it cool enough to keep a constant source of
23 electricity coming out of that?

24 MR. BEARCE: We can keep a constant source
25 of electricity. These units have never reached the

1 nameplate capacity. And so we can maintain it at 45
2 megawatts net output from each respective unit annually.
3 The cooling tower discussion that was brought up is we'll
4 put it in service, so we don't what's called "de-rate,"
5 like lower the actual output capabilities to cool the air
6 before it comes in, so that we can meet the peak summer
7 demands. So yes, we can, and that's where the cooling
8 tower comes into play.

9 MEMBER GOLD: The cooling tower is not
10 really necessary, but in order to make it more efficient,
11 you have a cooling tower?

12 MR. BEARCE: That's correct.

13 MEMBER GOLD: So the generating plants, the
14 generating unit, composed of the turbine and the
15 generator are totally independent from everything else?

16 MR. BEARCE: Yes.

17 MEMBER GOLD: Now, quick question. How
18 much do these things cost?

19 MR. BEARCE: They vary. If you were to
20 buy, just get a not a specific quote, a LM6000, a spot
21 market from the OEM is approximately \$20 million.

22 MEMBER GOLD: So you have a \$20 million
23 project, but it also cost a whole bunch of million
24 dollars to also set it up as a plant, correct?

25 MR. BEARCE: Correct.

1 MEMBER GOLD: So just out of curiosity's
2 sake if you were to have just produced one, one LM6000,
3 you would not have even considered coming to us for a CEC
4 because you wouldn't need it, correct?

5 MR. BEARCE: That would be a discussion we
6 would have internally. I'm not at liberty to make those
7 type of strategic --

8 MEMBER GOLD: I'm not asking you to make
9 it, I'm just asking it seems to me that you would have no
10 necessity to come to us if you were just producing one.
11 However, Arizona has needs for electricity that change
12 and your plants can actually turn on and turn off, where
13 solar plants are constantly producing, as long as the sun
14 is shining and wind turbines are constantly producing, as
15 long as the wind is blowing. The electricity, if we're
16 not using, is converted into heat. Solar plant because
17 it's always producing, it's doing something. Your plants
18 can turn on and turn off, correct?

19 MR. BEARCE: Yes, sir.

20 MEMBER GOLD: Assumption. So the decision
21 to make more than one was based on needs for our state,
22 and the fact that you chose to do not one at a time, but
23 four at once is based on fiscal economy. It's got to be
24 less to not just buy them, but to do the foundation, to
25 do everything else that goes with them. So it's lots

1 more cost-effective if you're going to ultimately need
2 four to do four at the same time. And that was a fiscal
3 decision that was made.

4 Now, question, coming before the Line
5 Siting Committee, to come up with the CECs that you're
6 going to -- that you may or may not require, and we're
7 here to determine that -- is a CEC as expensive as making
8 four plants or making one plant, finishing it, making
9 another plant, finishing it, and doing it individually?
10 How expensive is a CEC? And perhaps that's a question
11 for Ms. Grabel.

12 MS. GRABEL: Yes, Mr. Chairman, thank you,
13 Member Gold. I don't think Mr. Bearce has the background
14 to answer some of these questions. So, first of all, to
15 answer your first question, if UNSE was only siting or
16 only constructing one LM6000 less than 100 megawatts,
17 clearly, we would not apply for a CEC because the statute
18 is very clear in that regard. The cost of a plant and
19 you've heard Mr. Bearce testify is millions of dollars, a
20 CEC hearing, start to finish, depending on the length can
21 be up to a hundred -- maybe a million dollars, depending
22 on how much, but obviously the cost of construction is
23 much higher than the cost of a CEC proceeding.

24 MEMBER GOLD: Understood.

25 MS. GRABEL: Was that your question?

1 MEMBER GOLD: Yes. And that's really --
2 thank you for your answer, you've helped me a great deal,
3 and what you're doing is you're saving money by building
4 them all four at the same time, but you have the
5 inconvenience of probably, possibly, yes or no, having to
6 have a CEC.

7 When was the last CEC done for this plant?
8 I thought 2007 was the year I heard.

9 MS. GRABEL: Member Gold, there has never
10 been a CEC issued for this plant.

11 MEMBER GOLD: Never?

12 MS. GRABEL: Never.

13 MEMBER GOLD: Because it was done before
14 2021 when -- 1971 when the law was passed?

15 MS. GRABEL: No, it was constructed in the
16 early 2000s. I believe it was put into service in 2008.
17 UNSE purchased it, and we really can't speak to why the
18 prior predecessor chose not to file for a CEC, but this
19 is an example of a plant that or two generating units
20 that were constructed without going through a CEC
21 hearing.

22 MEMBER GOLD: So this was grandfathered
23 before any of these Arizona state regulatory laws were
24 required; is that correct?

25 MS. GRABEL: No, Mr. Chairman, no, Member

1 Gold, there was no grandfathering involved, just the
2 entity that constructed it chose -- did not receive a CEC
3 for it, and it has since been approved for acquisition by
4 the Arizona Corporation Commission, been brought into
5 rate base into UNSE's rates, and it serves as a precedent
6 that is just counter to the other precedent that the
7 intervenors are citing.

8 MEMBER GOLD: So a CEC was never done for
9 this original plant?

10 MS. GRABEL: That's correct.

11 MEMBER GOLD: Okay. Thank you.

12 CHMN STAFFORD: And no application for
13 disclaimer of jurisdiction was sought either.

14 MEMBER GOLD: I don't know what that means,
15 but okay.

16 CHMN STAFFORD: Well, what we're doing
17 today, UNSE is saying, hey, either give us a CEC or tell
18 us we don't need one. And yet in the prior case, I don't
19 recall who it was that actually constructed the plant,
20 was it -- who was the entity that constructed the plant
21 originally that UNSE acquired it from?

22 MS. GRABEL: I cannot recall the name of
23 it. I'll let Ms. Hill address that question.

24 CHMN STAFFORD: Thank you.

25 MS. HILL: Mr. Chairman, Committee Members,

1 can you hear me?

2 CHMN STAFFORD: Yes, kind of, but if you
3 would get closer to the mic that would be more helpful.

4 MS. HILL: The entity that originally
5 constructed the plant was UniSource Energy Development,
6 which is --

7 MEMBER KRYDER: Mr. Chairman?

8 CHMN STAFFORD: Yes, Member Kryder.

9 MEMBER KRYDER: I can't hear.

10 CHMN STAFFORD: Yes, closer to the mic,
11 please.

12 MS. HILL: Is this better? Yes, I can hear
13 myself now. Usually I'm not too quiet. It's not -- it's
14 never a problem.

15 Yes, Mr. Chairman, Committee Members, the
16 entity that originally constructed was UniSource Energy
17 Development. That is an affiliate company of UniSource.
18 It's another -- and so UniSource Energy Development
19 originally constructed it. And then there are two
20 exhibits from the Sierra Club, actually, that have been
21 admitted that are the decisions to both approve the
22 purchase of Black Mountain by UNS Electric and also to
23 move it into rate base. And I could look -- Mr. Woolsey
24 might actually know the numbers off the top of his head,
25 but if the Committee members would like to look at those

1 decisions, the discussion of a CEC didn't come up at that
2 moment, and there was no rejection of it being moved into
3 rate base by the Corporation Commission or concern about
4 the purchase.

5 CHMN STAFFORD: All right. Well, I think
6 we can get to that later. I think it will probably be
7 part of Sierra Club's case, and with that, any further
8 questions from members? Otherwise, we can allow the
9 applicant to continue with their direct.

10 (No response.)

11 MS. GRABEL: Thank you, Mr. Chairman.

12 CHMN STAFFORD: Please proceed.

13 BY MS. GRABEL:

14 Q. Mr. Bryner, I believe it's back to you?

15 A. (MR. BRYNER) Yeah, thank you. I'm going to --

16 Q. If we could get the PowerPoint presentation back
17 on the screen. Thank you.

18 A. (MR. BRYNER) Okay. I just wanted to step back.
19 So we were talking before we had the line of questioning
20 right there, we were talking about the generators and the
21 nameplate rating on the generators, and that it's in kVA,
22 so 71,176 kVA. So I just wanted to go through how we get
23 that into a unit that's more familiar to the Committee,
24 which is megawatts, since megawatts are what's cited in
25 the statute. So that's done through a simple conversion

1 formula, where you take the kVA multiply by the power
2 factor, divided by 10, raise to the power of 3, and it
3 equals 60.5 megawatts or we round that up to 61.

4 MEMBER GOLD: Mr. Chairman?

5 CHMN STAFFORD: Member Gold.

6 MEMBER GOLD: Just to simplify that, I
7 taught physics at one time. Watts is equal to amps times
8 volts. What he's doing is he's taking the amperage that
9 it's creating times the voltage that it's creating,
10 multiplying it by 10 to the 3rd, which is a million, and
11 that's how you get the megavolts -- megawatts; is that
12 correct?

13 CHMN STAFFORD: I believe 10 to the 3rd is
14 a thousand.

15 MEMBER GOLD: Pardon me?

16 CHMN STAFFORD: I believe 10 to the 3rd is
17 1,000.

18 MR. BRYNER: That's correct.

19 MEMBER GOLD: Okay, 10 to the 3rd is a
20 thousand, but mega is million watts.

21 CHMN STAFFORD: Thousand.

22 MR. BRYNER: So mega would be a million
23 watts, so kilowatts would be a thousand watts.

24 MEMBER GOLD: So megawatts is a million, I
25 gotcha.

1 MR. BRYNER: Correct. And then the one
2 thing that I would say to correct you is it's corrected
3 by the power factor in that formula. And why we did 10
4 to the 3rd that's because that's the EPA's formula for
5 it. And that's why we just didn't change it to a
6 thousand.

7 THE REPORTER: Can I ask everybody to
8 please not touch your microphones while somebody else is
9 speaking.

10 CHMN STAFFORD: Thank you.

11 Ms. Grabel, please proceed.

12 MS. GRABEL: If we can get the PowerPoint
13 put back up.

14 Q. And while we're waiting for that to happen,
15 Mr. Bryner, just to be clear, the nameplate is physically
16 attached to each generator by the manufacturer and given
17 a specific rating, correct?

18 A. (MR. BRYNER) Yes, it is.

19 Q. And that's the nameplate rating of that
20 generator?

21 A. (MR. BRYNER) Yes.

22 Q. And there's one nameplate for Unit 1 and another
23 nameplate for Unit 2, correct?

24 A. (MR. BRYNER) Correct.

25 Q. Thank you.

1 A. (MR. BRYNER) And, in fact, what I've got on the
2 screen right now is the nameplate for Unit 1, which,
3 again, is very similar to the nameplate we just saw for
4 Unit 2. And, actually, I don't think I changed it --
5 yeah, I did.

6 Q. Before you leave that one, does the nameplate
7 rating ever change?

8 A. (MR. BRYNER) No.

9 Q. It kind of is what it is, right?

10 A. (MR. BRYNER) That's correct, yeah. It
11 represents really the maximum output of that generating
12 unit under perfect conditions.

13 Q. And Mr. Bearce addressed this a little bit
14 earlier in his discussion with Member Gold, but how does
15 the nameplate rating compare to the actual capacity of
16 the generating unit?

17 A. (MR. BRYNER) So the nameplate rating is always
18 going to be higher than the actual capacity, because the
19 actual capacity is going to be dependent on multiple
20 factors. You know, I think we mentioned a couple of
21 them, elevation, temperature, a number of different
22 things. So it's always going to be the actual capacity
23 that it can produce is less than that nameplate rating.

24 CHMN STAFFORD: So is it safe to say that
25 the nameplate rating is the maximum output under ideal

1 ambient conditions?

2 MR. BRYNER: I think that's safe to say.

3 CHMN STAFFORD: Which are never the case in
4 Arizona anywhere, pretty much, right?

5 MR. BRYNER: I think anywhere.

6 CHMN STAFFORD: Especially in the summer,
7 when they're needed the most. It's impossible to get 61
8 megawatts out of either unit in Arizona in the summer,
9 correct?

10 MR. BRYNER: That's correct.

11 CHMN STAFFORD: Okay. And I think it's
12 about 45 megawatts is what the max -- I seem to recall
13 reading somewhere that you could get to 48 potentially,
14 is that, in the summer, or is that just at a different
15 time of year?

16 MR. BRYNER: So I'm -- I'm going to say
17 it's probably a different time of year, but from speaking
18 with one of the plant operators, the maximum that he'd
19 ever witnessed was 48.

20 CHMN STAFFORD: Okay. All right.

21 Member Richins, you had a question?

22 MEMBER RICHINS: Yeah, can you -- can you
23 hear me okay -- can you describe the environmental
24 reviews this plant goes under -- goes through on a
25 regular basis now, and, if possible, the environmental

1 reviews that were required at the time of construction,
2 if possible. I realize that you may not be able to
3 answer that question, but -- because earlier in your
4 testimony, you talked about how many environmental
5 reviews these plants go under. And so because this
6 wasn't the subject to a CEC hearing in 2007, I'm curious
7 as to what those environmental reviews looked like then,
8 and then what you deal with on an ongoing basis?

9 MR. BEARCE: That's a great question, with
10 your permission could I answer it backwards and talk
11 about what we do now?

12 MEMBER RICHINS: (No audible response.)

13 MR. BEARCE: Great. So we are on a
14 three-year audit cycle. And a lot of times we talk about
15 air quality, Title V, that's not the only waste stream or
16 concern for environment. So we're on a three-year
17 multimedia cycle, so air, waste, and water, and so we go
18 through a myriad of six-month reports to ADEQ as the
19 responsible entity for this site, and so we do
20 self-certifications, we do our own internal reviews, and
21 then we submit those. And we are -- I'll call it judged,
22 that's probably a tough word -- but essentially they
23 evaluate our evidence of what we propose. These sites,
24 as well as the future site or future development at this
25 site, the individual units, have continuous emissions

1 monitoring system, which they track everything.

2 And it's all data-centric, we have to have
3 a really high percentage, greater than 95 percent of
4 operating times. We can't take them down. They can
5 calibrate, but they need to be available tracking the
6 data. And so that's the level of detail that we get in
7 in those cycles. The three-year cycle I spoke to is our
8 outside. We get a third-party audit, which is always a
9 really health way to look at things is to say what are
10 the best practices, what are labeling things, you know,
11 how is our pond, and we go through all the air, waste,
12 and water condition audits.

13 And so that's our methodology. We have
14 committees internally, we have corporate services, so
15 we've got a lot of other formal processes to really
16 evaluate this stuff. And so it's a resilient
17 environmental process that we undergo currently today.

18 MEMBER RICHINS: Thank you for that.
19 What -- is ADEQ, then, the primary government oversight
20 for you guys or are there federal entities that have
21 oversight into your operations and emissions?

22 MR. BEARCE: Yeah, so the Feds oversee
23 everything. We do have PDEQ, for example, you know, in
24 Pima County. And so, depending on who has jurisdiction
25 over where the facility is located, we do have resources

1 outside of the state of Arizona as an example, so in New
2 Mexico, DEQ will have it, so the Feds oversee all of
3 those programs.

4 MEMBER RICHINS: Could you cite the federal
5 agencies for the record that have oversight now.

6 MR. BEARCE: For the --

7 MEMBER RICHINS: To get it on the record,
8 the federal agencies, is it the EPA --

9 MR. BEARCE: Yeah, the EPA --

10 (Cross-talk.)

11 THE REPORTER: Hold on. Hold on. One at a
12 time.

13 MR. BEARCE: I apologize.

14 So the EPA has jurisdiction over ADEQ and
15 PDEQ, and they'll issue orders and obviously that
16 cascades down, but they have -- they have regulatory
17 authority over those agencies.

18 MEMBER RICHINS: Thank you.

19 MR. BEARCE: To answer the second half, if
20 you'd like, so just like any major construction project,
21 you've got your swift that he spoke about, the wastewater
22 piece, the isolating everything there. We've got
23 fugitive dust controls that have to be in place. We
24 still have to go through Title V air permitting for
25 Class 1 and all this, you know, depending on the

1 triggers, that can trigger many other standards. The
2 proposed equipment, I'll just use that as more context, I
3 wasn't involved in the prior project is that we have to
4 go through air modeling. We'll be doing environmental
5 justice. The outreach efforts, a lot of new things that
6 aren't even necessarily legally required, but are the
7 right thing to do, and so we will exercise those and
8 we've done, you know, our outreach and we would continue
9 to do it on this effort as well. We also have the
10 aquifer protection program for the water side, which is
11 around the ponds and storage and protecting the aquifer,
12 and that sort of thing. So we would go through normal
13 construction permitting processes, I can't cite them all
14 right now for you, but it would have been a very similar
15 process back then that we're proposing to undergo on this
16 project.

17 MEMBER RICHINS: Understood. Thank you.

18 So you don't consider a CEC would be part
19 of the right thing to do, then, in this instance?

20 MS. GRABEL: Mr. Chairman, Member Richins,
21 I don't want to object to a member, but I think that
22 mischaracterizes Mr. Bearce's testimony.

23 MEMBER FONTES: Mr. Chairman, can I ask a
24 related question?

25 CHMN STAFFORD: Yes, Member Fontes.

1 MEMBER FONTES: How much of that overlaps
2 with what we review on the studies that inform the CEC,
3 perhaps let's get to the answer of that in a different
4 way. Would you be paying the same consultants and using
5 the same outputs to inform the presentation to the CEC
6 and this Committee.

7 MR. BRYNER: So, Member Fontes, I'll
8 address that one, just because I'm a little more familiar
9 with the CEC than Mr. Bearce.

10 So there's certainly a lot of overlap.
11 There's only so many environmental resources to review
12 and, you know, the typical protocols that review those in
13 the same manner, so whether you're looking at air
14 quality, water quality, you know, biological resources,
15 cultural resources, different things like that, which
16 many of these permits, you know, have you look at,
17 including also I forgot to mention public outreach,
18 things like that, that are required as part of that.
19 Certainly a lot of overlap would be there. You're going
20 to have different nuances with the applications and the
21 approval processes that would be different. And you may
22 have a few things that are stand-alone, you know,
23 thinking of one, you know, we typically create visual
24 simulations and things like that for the CEC that are not
25 going to be required for an air quality permit, because

1 it's not pertinent to the review.

2 MEMBER FONTES: Are there any things that
3 you require that nobody else does as a part of our review
4 and for the CEC that you've worked with in your
5 professional experience?

6 MR. BRYNER: Sorry, I'm just thinking. I
7 would say not really. The one that was kind of getting
8 me was the existing development plans, which is Exhibit H
9 of the CEC application, but when you look at, you know,
10 some of the local permits that you need to get, I would
11 say those typically cover that, so I would say --

12 MEMBER FONTES: So everything you're doing
13 for State and County is pretty much consistent with what
14 we're requiring, you're just presenting it in a different
15 format to us?

16 MR. BRYNER: I would say the level of
17 review is pretty --

18 MEMBER FONTES: And those are all -- those
19 are all capitalizable costs you're doing for State and
20 County, they're going into a rate base, so the additional
21 costs for us are just the legal and the presentation, so
22 the characterization of the additional cost burden that
23 you have to present to this committee is probably
24 negligible?

25 MR. BRYNER: I guess I would be -- I would

1 be a little bit concerned about oversimplifying that,
2 because the public outreach aspect that the committee
3 here has come to expect is substantial for a CEC. A lot
4 more substantial than it is for any of the other
5 permitting.

6 MEMBER FONTES: Thank you, Mr. Chairman.

7 CHMN STAFFORD: All right. Member Little,
8 you had a question?

9 MEMBER LITTLE: It was going to be a
10 question, but perhaps it's more of an observation at this
11 point. The public outreach was one area that I don't
12 believe is required by ADEQ or any of those other. And
13 we have often seen people come in with very real concerns
14 and very real comments that are important comments about
15 plants over which we had no jurisdiction that they knew
16 nothing about until the CEC hearings for the intertie to
17 tie that into that plant into the system.

18 And I would like to remind all of us that
19 one of the important parts of the law says that the CEC
20 would provide a single proceeding to which access will be
21 open to interested and affected individuals, groups,
22 County, and municipal governments, and other public
23 bodies, to enable them to participate in these decisions.
24 It's not just the environmental aspect.

25 CHMN STAFFORD: Thank you, Member Little.

1 Ms. Grabel, about how much longer do you have for your
2 direct case?

3 MS. GRABEL: It depends on how many
4 questions you all have. I mean, we have about 13 slides
5 left, and then I have a little bit of colloquy with
6 Mr. Bryner afterwards, so could be -- it's been an hour,
7 it could be another hour, depending on the questions.

8 CHMN STAFFORD: All right. Well, if it was
9 going to be 20 minutes I'd say let's go ahead and
10 continue on through, but it's 12:35, and I think I'm
11 sensing that people, my fellow Committee members, are in
12 need of some sustenance. I think it would be nice to
13 take a lunch break and then come back in about an hour.

14 MS. GRABEL: It could be 20 minutes, it
15 really depends on the questions.

16 CHMN STAFFORD: Okay, let's go --

17 MEMBER HILL: Mr. Chair, I have a question.

18 CHMN STAFFORD: Okay, hold on a second.

19 Member Hill.

20 MEMBER HILL: Okay. I want to follow up on
21 the public interest and the public having more engagement
22 in these projects, because there's just going to be more
23 of them as the grid decentralizes and changes.

24 Mr. Bryner, do you have, by right, the
25 zoning that you need to site this facility at this time?

1 MR. BRYNER: For this particular site,
2 yeah, the zoning is correct for what we need to do.

3 MEMBER HILL: So where is the public
4 comment and engagement in a project like this, where you
5 already have the zoning by right, the land use by right,
6 where is the public notification, engagement, and
7 mitigation of impacts happening? Can you characterize
8 that?

9 MR. BRYNER: Sure. So I want to start off
10 by saying just because something is required or is not
11 required doesn't mean that we don't do it. So as a --

12 MEMBER HILL: So it's voluntary on your
13 part?

14 MR. BRYNER: Yeah, I know, you know, it
15 might make some a little bit nervous, but as a company we
16 really do try to do right by the communities we serve.
17 And so that means that we try to keep them informed of
18 whatever it is we're working on, whether it's a small
19 distribution upgrade in a neighborhood, letting that
20 neighborhood know, hey, this is going to be happening or
21 whether it's something larger.

22 But specific to things that are actually
23 mandated and regulated, so the air quality permit would
24 be a good example of something where we do have to reach
25 out and do some community outreach and engagement in

1 order to satisfy the requirements of that permit.

2 MEMBER HILL: Thank you.

3 It's been my experience that TEP has done
4 good outreach, in particular to its customers, so I want
5 to compliment you on that. I think what I'm thinking
6 about is the consequences of some of the decisions today
7 have statewide significance, and it's not always going to
8 be TEP, and I don't want to characterize it as, you know,
9 the regulations have to -- I think we have to be
10 consistent in treating all of these projects similarly.

11 And to provide that public opportunity for
12 comment, discussion of mitigation of impacts, and approve
13 siting in a community, it's not always going to be TEP,
14 and so I think I'm thinking broadly about the statewide
15 consequences of that. And so I appreciate all of your
16 good work, but I'm trying to think through this in a
17 bigger picture. Thank you.

18 MR. BRYNER: Understood. Thank you.

19 MS. GRABEL: Member Hill, if I may address
20 that quickly and then we can break for lunch. I would
21 suggest that there's really no dispute that nonthermal
22 generation doesn't require a CEC, and we have large solar
23 plants being built all over the state without that kind
24 of public outreach, and I think that's what Ms. Little's
25 question was getting to earlier. So I just wanted to

1 leave it at that. I understand the issue --

2 MEMBER HILL: No, I don't disagree with
3 Member Little. I have genuine concerns about how all of
4 these hearings are structured and where we're getting
5 public comment and where we're not. But I don't want to
6 backslide to a place where we're not getting any public
7 input on any generation, so thank you.

8 MS. GRABEL: Thank you.

9 CHMN STAFFORD: Any other questions from
10 members?

11 MEMBER FONTES: I have one observation and
12 maybe you haven't done it thus far, but under the EPA
13 environmental social justice public outreach, it would be
14 useful for the members and the community and the
15 stakeholders here for you to know what your plan is to
16 address that. And then how does that map into our
17 requirements? Again, it's a gas-fired plant, EPA rules
18 are new under this administration, they're still being
19 implemented.

20 MR. BRYNER: So, yeah, thank you, Member
21 Fontes, so yeah, we actually have done a full analysis
22 for the environmental justice concerns under the EPA rule
23 and we didn't enter that as an exhibit. It's being done
24 as part of our air quality permit process, but we have
25 taken it into consideration and looked at those

1 populations. I don't have it in front of me right now,
2 otherwise, I could reference it, but if you have specific
3 questions, I can research that and provide an answer.

4 MEMBER FONTES: Just a characterization of
5 your plan for stakeholder engagement, as you do, and then
6 how you're going to document that, again, you can -- we
7 can look at how that compares to what our requirements
8 are here in this particular case.

9 MR. BRYNER: I know for a fact we don't
10 have that plan yet, because we're working on formulating
11 it. We just finished up the analysis.

12 MEMBER FONTES: I have one other item. I
13 cannot find the dispatch operational data in any of the
14 exhibits, so if we could address that after lunch, I'd
15 appreciate that, Ms. Grabel?

16 MS. GRABEL: I can answer it real quickly,
17 if you don't mind, Mr. Chairman, Member Fontes, it was
18 actually a WRA exhibit that they withdrew, and so it's no
19 longer before the Committee as an admitted exhibit. I
20 can reference you to the prior exhibit, which was WRA-3,
21 I believe.

22 MEMBER FONTES: Thank you. I turned that
23 over to somebody, I'd like to get a copy of that, if I
24 could.

25 CHMN STAFFORD: I think the time for that

1 will be WRA's direct case, which will be coming -- they
2 will be presenting a witness with Sierra Club as a panel.

3 MEMBER FONTES: Thank you, Mr. Chairman.

4 CHMN STAFFORD: Yes, Ms. Johnson.

5 MS. JOHNSON: I just wanted to point out
6 that the procedural order does not require the parties to
7 docket their exhibits, and so there isn't a reason why
8 the Committee members would have WRA exhibits that have
9 since been withdrawn.

10 CHMN STAFFORD: Well, I guess it's up to
11 WRA whether they want to offer it again in response to
12 Member Fontes's question.

13 WRA, Ms. Doerfler?

14 MS. DOERFLER: I honestly will need to
15 speak further to make sure I know exactly what we're
16 talking about. There was a lot of shuffle with the
17 exhibits with the short time frame for this case. So I
18 will get more information, and then our hope would be to
19 provide you with the information that you would need.

20 CHMN STAFFORD: All right. Well, it sounds
21 like you'll do that after lunch. So with that, Members,
22 are you ready to take a break for lunch now or do you
23 want to keep going until 1:00?

24 (No response.)

25 CHMN STAFFORD: All right. With that,

1 we'll take a recess for lunch and we'll come back at
2 2:00.

3 We stand in recess.

4 (Recessed from 12:39 p.m. until 2:00 p.m.)

5 CHMN STAFFORD: All right. Let's go back
6 on the record. We'll continue with the applicant's
7 direct case.

8 Ms. Grabel.

9 MS. GRABEL: Thank you, Mr. Chairman.
10 Before we begin, I do have a couple of responses to
11 questions that the Committee members asked prior to
12 lunch, and so responsive to Member Fontes's inquiry about
13 the insurance description, the insurance description
14 describes the site as a simple-cycle power generation
15 station with peaking service for the northwestern part of
16 Arizona.

17 And in response to Member Hill's inquiry
18 about public outreach, I did want to make the Committee
19 aware that there are several requirements associated with
20 the air quality permit revision. One is reaching out to
21 all tribes within 50 kilometers, according to the ADEQ
22 tribal outreach policy. The final draft permit of the
23 air quality permit application must be noticed for public
24 review and comment for 30 days. Other notice
25 requirements associated with newspaper publications,

1 associated mailing lists, and posting at the project
2 sites are also required by regulations and the associated
3 regulations are Arizona Administrative Code R18-2-330(a)
4 and (g) R18-2-330(c) and (f). There's also a public
5 comment hearing that's actually hosted by ADEQ at the end
6 of the public comment period. If that's helpful.

7 MEMBER HILL: Thank you.

8 MS. GRABEL: Sure.

9 CHMN STAFFORD: And that's for the aquifer
10 protection permit?

11 MS. GRABEL: Yeah, it's for the air quality
12 permit revision.

13 CHMN STAFFORD: Air quality permit
14 revision. Okay.

15 MS. GRABEL: Correct. And if that answers
16 all of the members' questions, we're ready to revisit
17 Mr. Bryner's PowerPoint presentation. And I believe he's
18 at page 25 --

19 Q. Is that what we decided? 26?

20 A. (MR. BRYNER) Yeah. So we'll start over or we'll
21 start back at -- whoops, I think I just did something.
22 There we go.

23 Yeah, I think we were kind of talking about the
24 Unit 1 generator nameplate. We went over Unit 2's
25 nameplate, I just wanted to hit on Unit 1 real briefly,

1 so we -- I think I showed this slide already. Then on
2 slide 26, just wanted to point out that similar to Unit
3 2, the Unit 1 nameplate has that same output rating of
4 71,176 kVA, which again, using that same conversion
5 formula equates to 60.5 megawatts, or 61 megawatts.

6 So each of these two units, they have their
7 nameplate affixed, and each of the proposed new -- or the
8 proposed four new generating units would have a similar
9 nameplate affixed to those that would be affixed by the
10 manufacturer, and would include the specifications,
11 including the generating -- the output rating of those
12 generating units.

13 MEMBER FONTES: Mr. Chairman?

14 CHMN STAFFORD: Yes, Member Fontes.

15 MEMBER FONTES: So what is the current
16 model, that's a 1971 vintage technology, what is a GM
17 [sic] LM6000, and is it the PF or the PC configuration?
18 What are the nameplate ratings of those?

19 MR. BRYNER: I'll defer to Mr. Bearce.

20 MR. BEARCE: So I don't have a specific
21 manufacturer identified for these yet. We haven't gotten
22 that far. The PF does have a higher generating capacity,
23 that is not what we're proposing. We did model it, and I
24 do know it's a higher capacity. The PF is not in
25 consideration for this. It's still below 100, but it's

1 higher. I don't have those numbers. The proposed, well,
2 yeah, while this is old, they're very similar in rating
3 from an output stamp on the actual nameplate itself, even
4 to this day. For the LM6000 PCs, which is the considered
5 model.

6 MR. BRYNER: So let's move on to slide 27.
7 So this now is the gas turbine that we've talked about.
8 The locations of the existing gas turbines and the
9 proposed new gas turbines are highlighted in yellow on
10 the slide, and the turbines are separate and specific to
11 each of the generating units. In between, in connecting
12 the gas turbine to the generator is a coupling. Together
13 the gas turbine and the generator form the generating
14 unit. The photo on this screen shows this coupling
15 between the gas turbine and the generator of the existing
16 Unit 2. So a similar coupling would connect the gas
17 turbine and the generator of each of the proposed four
18 separate generating units.

19 Each of the separate generating units also
20 has its own auxiliary skid, which is illustrated in this
21 photo. These skids contain multiple subsystems and
22 instrumentation. The locations of the auxiliary skids on
23 the existing skids two generator units, along with the
24 four proposed new generating units are outlined in yellow
25 on the slide. These auxiliary skids are also separate

1 and specific to each of the generating units.

2 Each of the separate generating units has
3 its own exhaust stack and continuous emission monitoring
4 system or CEMS, which is illustrated in the photo. The
5 locations of the exhaust stacks and the CEMS on the
6 existing two generator units and the four proposed new
7 generating units are outlined in yellow. The exhaust
8 stack and the CEMS are each separate and specific to each
9 of the generating units.

10 The generating units, I believe as
11 Mr. Bearce spoke about, are controlled remotely out of a
12 central location in Tucson, but each of the separate
13 generating units has its own local controls. So you can
14 see on the screen, you know, I didn't get my laser
15 pointer, if you'll give me just a second.

16 You got it? Thank you.

17 Let's see, you've got a -- never mind. I
18 think we're too far away from the computer.

19 So on the screen you can see a photo of the
20 control room. So on the left side of that photo is the
21 control for, Unit 1, and on the right side of the photo
22 are the separate controls for Unit 2. So they are both
23 housed within a common building, a common control room,
24 and a similar set of controls would be required for each
25 of the four new generating units. But each unit is

1 operated independently of one another, it can be started
2 and stopped independently so that we can provide the
3 necessary level of power to meet the load requirements.

4 I do also want to point out on this slide,
5 if you -- the gen-tie line, so we've talked a little bit
6 about that, so there is a gen-tie line associated with
7 this project, it's not part of our proposal or anything
8 we're discussing here today, and it's illustrated
9 conceptually with that orange dashed line. The existing
10 Black Mountain Station has two gen-ties coming out of it
11 today, they're both 69-kV lines, which are -- is the
12 voltage of our operating transmission system in Mohave
13 County.

14 Now, in looking at the requirements to
15 bring the proposed new generation out to the grid, we
16 learned that it would actually require four new 69-kV
17 circuits. So if we were to build those four new 69-kV
18 circuits, we could actually avoid the need to come before
19 this Committee to get a Certificate of Environmental
20 Compatibility. However, we're proposing a 230-kV gen-tie
21 line instead, and that's, you know, even though it will
22 require a CEC, and that's because it's the right
23 technical solution for us, and it's the right economic
24 solution for our customers.

25 CHMN STAFFORD: Now, that 230-kV line, will

1 that tie all six units or just the four new ones?

2 MR. BRYNER: It would just tie the four new
3 ones, so they'll be in a 230-kV yard, as opposed to the
4 others are in a 69-kV yard.

5 CHMN STAFFORD: Okay, thank you.

6 MEMBER GOLD: Mr. Chairman?

7 CHMN STAFFORD: Yes, Member Gold.

8 MEMBER GOLD: Could I ask Mr. Bryner one
9 more question, you said it was the right technical,
10 economic, and what?

11 MR. BRYNER: I believe I just said the
12 right technical and economic solution.

13 MEMBER GOLD: Okay. Thank you.

14 MR. BRYNER: So up to this point all the
15 equipment that I've shared with you as part of the
16 proposed expansion has been separate and unique to each
17 generating unit. For efficiencies, there are a number of
18 facilities that are shared between two or even all four
19 of the proposed new units. And just to make it clear,
20 they're not involved in the production of electricity.
21 These shared -- these shared facilities. And these are
22 symbolized on this map with gray shapes on the screen.

23 Despite sharing these facilities, the
24 shared equipment would be installed really whether we
25 installed one unit or we installed 10 units. The first

1 of these shared facilities that I'll show is the cooling
2 tower. As shown in the photo, the existing station Units
3 1 and 2 share a common cooling tower, and as we've
4 discussed already, the cooling helps the units to run
5 more efficiently, but is not required for power
6 production, and is only used during peak summer months.
7 Many of the shared facilities that I'll go over here in
8 the next few minutes are part of this cooling function.

9 For efficiency, UNSE proposes to have two
10 additional cooling towers, each shared by two of the
11 generating units, which are highlighted in yellow on the
12 screen. The water pumps for the proposed expansion would
13 actually be located in the same building as the existing
14 pumps that are shared today between Units 1 and 2, and
15 they're shown in the photo. The raw water pumps are
16 located on the right side of the photo, and the
17 demineralized water pumps are located on the left side of
18 the photo.

19 The reverse osmosis system, or RO system,
20 which is used for treating water, is shared between the
21 existing Units 1 and 2. UNSE proposes to include a new
22 RO system for the expansion that would serve all four of
23 the separate generating units. Similarly, while the
24 demineralized water tanks are shared between Units 1 and
25 2, a new set of tanks would be installed and shared

1 between each of the four proposed new generating units.
2 A single evaporation pond exists today and is shared by
3 the existing Units 1 and 2. And a new evaporation pond
4 would be built and shared between each of the proposed
5 four new generating units.

6 Now, similar to the control center, each
7 separate generating unit would have its own turbine
8 control panel. But they would be housed in a common
9 building. Shown in the photo on the bottom right is the
10 turbine control panel and battery system for Unit 2. And
11 in the upper right is a mirror image of that same
12 installation for Unit 1.

13 Lastly, each separate generating unit has
14 its own set of switch gear and a cable to convey the
15 electricity produced to the generator step-up units or
16 GSUs, where it's transformed and distributed through the
17 grid. The existing station has two GSUs, one associated
18 with each generating unit. For the proposed expansion
19 rather than installing four GSUs, for efficiency, UNSE is
20 planning to size those with greater capacity so that two
21 separate generating units can share a single GSU. So
22 while there are some shared facilities between each of
23 the separate generating units, none are physically
24 connected nor is there a dependency on one generating
25 unit in order to operate another.

1 In conclusion, UNSE made the request for a
2 disclaimer of jurisdiction over the siting of the
3 proposed expansion of the Black Mountain Generating
4 Station, based on the definition of "plant" in the
5 statute, which defines a plant as "Each separate thermal
6 electric, nuclear, or hydroelectric generating unit with
7 a nameplate rating of 100 megawatts or more." UNSE
8 proposes to install four separate generating units, each
9 with an anticipated nameplate rating of approximately 50
10 megawatts, but in no case 100 megawatts or greater.
11 These separate generating units do not meet the
12 definition of a plant under the statute.

13 The Company, therefore, respectfully
14 requests that the Committee and the Commission disclaim
15 jurisdiction over the Black Mountain Expansion Project,
16 as we've proposed it today.

17 BY MS. GRABEL:

18 Q. Thank you for your presentation, Mr. Bryner. I
19 do have a few additional questions. If the Company needs
20 200 megawatts of capacity, why construct four 50-megawatt
21 units instead of a single 200-megawatt plant?

22 A. (MR. BRYNER) So primarily for flexibility. So
23 the combustion turbine technology can be ramped up
24 quickly, so we can turn on one, two, three, or four of
25 the units, whatever it is that we need in order to meet

1 our current load profile. It gives us that operational
2 flexibility that we need, so that we can be the most
3 efficient, really, to meet our customers' expectations.

4 MEMBER FONTES: Mr. Chairman, I've got a
5 follow-up question to that.

6 CHMN STAFFORD: Yes, Member Fontes.

7 MEMBER FONTES: Why not use TM2500 and use
8 smaller aeroderivative turbines in 25 megawatts or even
9 another similar product?

10 MR. BRYNER: So that's outside of my
11 expertise, but I'll refer to Mr. Bearce if he knows.

12 MR. BEARCE: Sure. So there's some
13 synergies that's taken with a similar technology that we
14 currently have on-site. We've got all the systems and so
15 there's some efficiencies with using the same. We could
16 use -- we wouldn't use a trailer mount version, we would
17 go with the LM version of the 2500, if we did. But it
18 didn't seem -- it's more shaft risk, it required more
19 real estate disturbance, and so for the purposes of this
20 project having these four, based on the load profile, it
21 was the best technical solution for this installation to
22 go with four LM6000 PC SPRINTs.

23 MEMBER FONTES: With respect to the load
24 that it's servicing, is this selling into the EIM, is
25 this servicing the community, or providing peak shaving

1 or how would you characterize it in terms of the load
2 that it's servicing?

3 MR. BEARCE: So right now we're currently
4 pulling on the market for the capacity that this
5 installation covers.

6 MEMBER FONTES: So it's going to displace
7 purchases from the market in the summer capacity --

8 MR. BEARCE: Yes, sir.

9 MEMBER FONTES: -- to save consumers the
10 difference between your cost of production to that of
11 what you would purchase out of the market?

12 MR. BEARCE: That's correct.

13 MEMBER FONTES: Thank you.

14 MS. GRABEL: Thank you.

15 Q. And, Mr. Bryner, before I turn you over for
16 cross-examination, would you please turn to the exhibit
17 marked UNSE-14, and I'll let the Committee members have
18 time to get there as well.

19 Is everyone there?

20 UNIDENTIFIED SPEAKER: Yes.

21 MS. GRABEL: Thank you.

22 Q. Mr. Bryner, what is Exhibit UNSE-14?

23 A. (MR. BRYNER) It's a copy of an op-ed article
24 that was written by counsel for intervenor ArISEIA.

25 Q. Have you reviewed this article?

1 A. (MR. BRYNER) I have.

2 Q. This article was published on April 13, 2024, so
3 that's just 11 days ago, correct?

4 A. (MR. BRYNER) Yes.

5 Q. If you'll look at the second paragraph, counsel
6 for ArISEIA suggests that UNSE is asking the Committee
7 and the Commission to waive its jurisdiction over siting
8 thermal electric, and nuclear power projects.

9 Is that an accurate characterization of this
10 request?

11 A. (MR. BRYNER) So, no, we're asking for the
12 Committee to disclaim, not waive jurisdiction. And it
13 would only apply to any new generation that is
14 100 megawatts or under, as the statute says.

15 Q. Thank you. And in the third paragraph of this
16 article, the author argues that, "If UNSE is successful,
17 essentially all new gas plants in Arizona would be exempt
18 from the law."

19 Is that accurate?

20 A. (MR. BRYNER) So, no, again, this would apply
21 only if those generating units that are 100 megawatts or
22 under 100 megawatts, as the statute says. And if a unit
23 with the nameplate rating of over 100 megawatts were --
24 were needed, maybe we need a new base load, or something
25 like that, a larger combined-cycle unit, the utility

1 would build the unit that is the right technical
2 solution, similar to the transmission line I referenced.

3 And speaking on behalf of UNSE and TEP, I can
4 assure you that we're not going to build 10 50-megawatt
5 units if we need one single 500-megawatt unit, if that's
6 the right technical solution, just so that we can skirt
7 the rules and avoid the need for a CEC.

8 Q. Thank you.

9 The Arizona Corporation Commission has the power
10 to disallow recovery of an imprudent investment, correct?

11 A. (MR. BRYNER) Yes.

12 Q. So if the Company needed to build a 200-megawatt
13 base load resource and did not have a concurrent need for
14 fast-ramping units, would it construct four units under
15 100 megawatts simply to avoid this Committee's
16 jurisdiction?

17 A. (MR. BRYNER) No, as I just mentioned that,
18 absolutely not. We're always making our decisions, our
19 recommendations based on what's prudent and
20 most -- what's needed technically and what's prudent for
21 our customers.

22 Q. Any decision to the contrary could subject the
23 Company to disallowance of the costs incurred, correct?

24 A. (MR. BRYNER) Correct.

25 Q. The line siting statute exempts non-thermal

1 generation from requiring a CEC, correct?

2 A. (MR. BRYNER) That's correct.

3 Q. Most of the generation built today consists of
4 nonthermal facilities, solar and storage, correct?

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

6 Q. So I'm going to read from the last line of
7 paragraph 4 of this article, in which ArISEIA writes,
8 "While the public hasn't likely heard a lot about UNSE's
9 proposal, some concerned organizations have asked if this
10 would remove half of the job of the Arizona Power Plant
11 and Line Siting Committee and whether or not the
12 legislature could possibly have intended to pass a law,
13 that eliminated review of almost all power plants in the
14 future."

15 Is it the exemption of nonthermal solar and
16 storage plants in the CEC process that actually
17 eliminates the review of most power plants in Arizona?

18 A. (MR. BRYNER) I would disagree. I would say no.

19 Q. You would disagree that it's the nonthermal
20 exemption that bypasses most of -- the review of most
21 power plants?

22 A. (MR. BRYNER) So the nonthermal exemption is what
23 would -- what would disallow most of the power plants
24 that would need to come here, so most of the projects
25 are -- I'm tongue-tied, I'm sorry.

1 Q. Most of the projects that are being sited today
2 are solar and storage, correct?

3 A. (MR. BRYNER) That is correct, and they don't
4 require coming before this body.

5 Q. Thank you.

6 Do ArISEIA or any of the other intervenors take
7 issue with the exemption from nonsolar plants -- from
8 nonthermal plants, rather, from the CEC process?

9 A. (MR. BRYNER) Not that I'm aware of.

10 Q. Finally, please look at the last paragraph of
11 the article on the first page.

12 MEMBER GOLD: Mr. Chairman?

13 CHMN STAFFORD: Yes, Member Kryder?

14 MEMBER GOLD: This is Gold.

15 CHMN STAFFORD: Or Gold, sorry.

16 MEMBER GOLD: Did you just say that solar
17 and wind power plants are exempt, but only gas-fired
18 power plants are required?

19 MR. BRYNER: So the way that, if I can
20 address your question, Member Gold, so the way the
21 statute reads is any gas -- well, it says thermal
22 generation --

23 MEMBER GOLD: Basically --

24 (Cross-talk.)

25 THE REPORTER: Hold on.

1 CHMN STAFFORD: One at a time.

2 MEMBER GOLD: When you say "thermal," you
3 mean coal, oil, or gas?

4 MR. BRYNER: Correct.

5 CHMN STAFFORD: That also includes solar
6 thermal. There was a CEC issued for the solar thermal
7 plant.

8 MR. BRYNER: Yeah, like a concentrating
9 solar or something like that.

10 MEMBER GOLD: So solar is exempt or is not
11 exempt?

12 MR. BRYNER: So your photovoltaic
13 technology would be exempt.

14 MEMBER GOLD: So solar plants are exempt.
15 Turbine -- wind turbines are exempt?

16 MR. BRYNER: Correct.

17 MEMBER GOLD: But a gas plant is not
18 exempt?

19 MR. BRYNER: Correct.

20 MS. GRABEL: Or, no, Member, I'm going to
21 argue that, so our position is that a gas plant under
22 100 megawatts is exempt. But if it's over 100 megawatts,
23 a thermal facility has to come before this Committee for
24 a Certificate of Environmental Compatibility.

25 MEMBER GOLD: What about a solar plant

1 that's over 100 megawatts?

2 MS. GRABEL: No, because it's nonthermal
3 generation, assuming it is, and it's not thermal solar,
4 then it does not require to have a CEC. That is why this
5 Committee sees so many applications for the generation
6 tie lines that connect solar plants, but not the siting
7 of the solar facility itself.

8 MEMBER GOLD: Really?

9 MS. GRABEL: Yes.

10 MEMBER GOLD: Thank you.

11 CHMN STAFFORD: My theory is that because
12 in 1971 when they passed the statute utility-scale solar
13 PV was not really viable at that scale.

14 MEMBER GOLD: So, Mr. Chairman, it looks
15 like our statute is a little outdated.

16 CHMN STAFFORD: Well, I'm as old as the
17 statute and I don't think I'm out of date. And I think
18 the statute certainly hasn't kept up with the times.

19 MS. GRABEL: All right.

20 CHMN STAFFORD: Member Little, you had a
21 question?

22 MEMBER LITTLE: My question has to do with
23 your statement that if a utility or an applicant were to
24 determine that a 200-megawatt gas-fired generation would
25 be best, you said maybe they need a low base load, or

1 whatever, in your experience, working in the utility
2 industry in Arizona, when was the last time you saw a
3 gas-fired generation of anything over greater than
4 100 megawatts planned for in Arizona?

5 MR. BRYNER: So I'll reference just within
6 the realm of TEP and UNSE. So the Gila River Power
7 Plant, which was, I believe it got its CEC back in the
8 early 2000s. We purchased those units, you know, I don't
9 know, a decade or so later.

10 MEMBER LITTLE: That was over 20 years ago?
11 My point -- my point is that in today's climate, planning
12 in the, generally speaking, gas-fired generation is
13 needed for a purpose other than base load. And generally
14 speaking, they tend to be smaller units. But they also
15 tend to be lumped in one location, because that's where
16 the gas is.

17 BY MS. GRABEL:

18 Q. Mr. Bryner, may I ask a couple follow-up
19 questions in response to Ms. Little's arguments. Do you
20 know whether there was actually a moratorium placed on
21 the construction of new natural gas plants within the
22 past decade, perhaps more?

23 A. (MR. BRYNER) I'm not aware of any moratorium
24 like that.

25 Q. Okay. We can offer that into evidence later, if

1 necessary. And is it possible that additional base load
2 resources will be needed that cannot be met with solar or
3 energy storage in the future?

4 A. (MR. BRYNER) I think it's possible.

5 MS. GRABEL: Thank you.

6 Any other questions?

7 CHMN STAFFORD: I had a quick question or
8 two.

9 How -- to your knowledge, what is the
10 largest simple-cycle turbine/generator that's
11 commercially available currently.

12 MR. BRYNER: If you wouldn't mind, I'd like
13 to pass that off to Mr. Bearce.

14 MR. BEARCE: So in a simple-cycle
15 configuration, it's usually the GE, staying with that
16 manufacturer, they call it a 7FA, and there's variations
17 of that, but the .05 is the most common, and it's around
18 175 to 190 megawatts, which would be the actual output.
19 I don't know what their nameplate capacity rating would
20 be on that machine, I just know that's the output, I want
21 to delineate those two, but it exceeds the 100 megawatts,
22 that question right now.

23 CHMN STAFFORD: All right. So I imagine
24 they are a little less versatile to start and stop for
25 different levels of generation, as opposed to having four

1 50-megawatt units, as opposed to one 200-megawatt CT.

2 MR. BEARCE: Mr. Chair, that is absolutely
3 true.

4 CHMN STAFFORD: Now, what's the -- when's
5 the last time someone built a combined cycle in Arizona?

6 MR. BEARCE: I couldn't cite that with
7 specificity.

8 CHMN STAFFORD: I think the Gila -- the one
9 that you recently acquired -- that TEP recently acquired
10 that was one of the later builds.

11 MS. GRABEL: I don't know.

12 MR. BRYNER: Sorry, it doesn't look like
13 we -- we have a good answer.

14 CHMN STAFFORD: Okay. All right. Now,
15 what do you -- what's the smallest-sized combined-cycle
16 turbine you're aware of?

17 MR. BEARCE: Ooh, man, you're quizzing me
18 on some stuff here that goes back into the vault. I
19 don't currently operate any small combined cycles or we
20 don't have them on the horizon, because, for the most
21 part, they're not really economical to build for that
22 load profile. But they would most likely be over the
23 100 megawatts.

24 CHMN STAFFORD: Right. Because the
25 combined cycle, you don't want to quick start and stop

1 those, you want to turn them on and run them constantly.
2 It's more of a base load that can ramp up and down in a
3 smaller degree of variability than, say, the CTs.

4 MR. BEARCE: Yeah, when you introduce the
5 steam cycle, there's heat stresses that take away the
6 operational flexibility, which hinders the operation to
7 be able to do what the project we're proposing does.

8 CHMN STAFFORD: Okay. And the larger CT
9 that you acquired, is it a CT or is it a combined cycle,
10 the Gila units that you obtained?

11 MR. BEARCE: Gila is a combined-cycle power
12 plant.

13 CHMN STAFFORD: That's what I thought. And
14 that's each unit there is over 100 megawatts, correct?

15 MR. BEARCE: That's correct.

16 CHMN STAFFORD: Okay. I think the last CTs
17 that were sited over 100 megawatts each was the APS
18 Ocotillo Modernization Project. I think those are like
19 102 megawatts apiece for about five units that replaced
20 the two steam units that were there in Tempe. That's the
21 one that -- that's the last -- that's the last case where
22 I recall seeing simple cycles greater than 100 megawatts.
23 If that's incorrect, please let me know, but I think that
24 was the -- I think all the CTs that have come on since
25 then are significantly less than 100 megawatts each.

1 MS. GRABEL: I would reiterate for the
2 record, Mr. Chairman, that it's in Decision Number 76632
3 entered on March 29th, 2018, that there was a moratorium
4 placed on the construction of natural gas in the
5 Company's Integrated Resource Plan, so that might explain
6 part of the reason why we didn't have construction of
7 natural gas during that period.

8 CHMN STAFFORD: Right. I'm looking at more
9 not the absence of all natural gases, I'm talking about
10 the choice between CTs and combined cycles. It seems
11 that, you know, with the differing load profiles and the
12 proliferation of nondispatchable resources, like PV solar
13 and wind, if those -- if the CTs are what you look to to
14 fill in the gaps, as opposed to having a combined cycle
15 to run more like a base load.

16 MS. GRABEL: Yes.

17 MS. HILL: Mr. Chair, can I ask a question?

18 CHMN STAFFORD: Member Hill.

19 Speak into the microphone, please.

20 MEMBER HILL: I'm just reading this op-ed
21 because I hadn't read it before. And I just have a
22 question about the relationship or the process by which
23 TEP makes decisions. The -- it looks like the RICE
24 project is, in total, 200 megawatts. And this project is
25 200 megawatts. Can you talk a little bit about the

1 decision to do a disclaimer of jurisdiction now and not
2 in the previous project? Can you explain kind of the
3 thought process there?

4 MR. BRYNER: So I was advised by my counsel
5 to let them go ahead and take that question, if that's
6 okay.

7 MEMBER HILL: Sure.

8 MS. GRABEL: I guess I'll start by saying
9 TEP and UNSE -- this is UNSE not TEP, they are affiliated
10 entities, but they're different entities --

11 MEMBER HILL: Okay.

12 MS. GRABEL: -- I was not part of the
13 process back in siting the RICE units, so I cannot tell
14 you exactly why they chose to site it at the time. I do
15 know that there was a discussion on the record with the
16 then-chairwoman as to whether a jurisdiction was
17 actually -- if the Committee actually had jurisdiction
18 over that project. And I think the Company at that time
19 put on the record they decided to do it in order
20 basically to avoid controversy with other stakeholders,
21 but they maintained that there may not be jurisdiction
22 over the project.

23 So in this case, because there has been the
24 precedent of the RICE, there has been the precedent of
25 Sundance and other units, UNSE has decided to just come

1 forward and seek clarification on a statutory
2 interpretation that's been up in the air for a little
3 while.

4 MEMBER HILL: Okay. Thank you.

5 MS. GRABEL: Certainly.

6 CHMN STAFFORD: Any other questions from
7 members?

8 (No response.)

9 CHMN STAFFORD: Okay. I assume your
10 witness is available for cross-examination?

11 MS. GRABEL: Not yet. I have one more
12 follow-up question. Thank you.

13 Q. If you'll look, Mr. Bryner, at the
14 last paragraph on the first page of ArISEIA's op-ed,
15 Ms. Johnson writes, "UNSE did not conduct an All-Source
16 Request for Proposal for this project nor is this project
17 identified in the Integrated Resource Plan they filed in
18 November."

19 Is this statement completely accurate?

20 A. (MR. BRYNER) No, it's not.

21 Q. In fact, if you please turn to UNSE-1, which is
22 our application, I'd like you to read into the record the
23 verbiage that's included in Footnote 1 of the
24 application.

25 A. (MR. BRYNER) It states, "UNSE's 2023 Integrated

1 Resource Plan calls for the addition of 200 megawatts of
2 natural gas turbines to support system reliability during
3 the summer months. Specifically, the IRP calls for the
4 addition of four new fast-start, fast-ramping
5 aeroderivative combustion turbines pursuant to
6 ACR14-2-705(b). UNSE plans to issue an All-Source
7 Request for Proposal to meet this need."

8 Q. Did ArISEIA have the benefit of this language
9 11 days ago when it published this article?

10 A. (MR. BRYNER) Yes.

11 Q. Thank you.

12 And, now, if you'd please turn to UNSE-15, which
13 is UNSE's 2023 IRP.

14 A. (MR. BRYNER) Okay.

15 Q. Is the Committee there?

16 This is UNSE-15, and we're going to look at
17 page 1. And that's the introduction by the Company's CEO
18 Susan Gray, and in this -- take in this first page intro,
19 Ms. Gray calls out in the last paragraph on the left
20 column that, "Our 2023 Integrated Resource Plan calls for
21 the addition of 350 megawatts of solar and wind
22 resources, 200 megawatts of natural gas turbines, and
23 225 megawatts of energy storage systems by 2038."

24 Did I read that correctly?

25 A. (MR. BRYNER) That's correct.

1 Q. Is the Black Mountain Expansion Project that
2 we're talking about today included in the list of
3 capacity additions cited here?

4 A. (MR. BRYNER) Yes, it would be those
5 200 megawatts of natural gas turbines that are
6 referenced.

7 Q. Okay. Thank you.

8 And if you'll turn to page 53 of this document,
9 which again is the 2023 Integrated Resource Plan.

10 Are you there?

11 A. (MR. BRYNER) Yes.

12 Q. That's page 53 of the IRP.

13 This depicts these capacity needs against a
14 timeline; is that correct?

15 A. (MR. BRYNER) That's correct.

16 Q. Are the 200 megawatts of natural gas combustion
17 turbines depicted on this timeline?

18 A. (MR. BRYNER) They are with the reflected
19 timeline of 2028.

20 Q. And, again, is that the Black Mountain Expansion
21 Project we're talking about today?

22 A. (MR. BRYNER) That's when the technology need
23 is -- the resource need is identified.

24 Q. Did ArISEIA have the benefit of reviewing this
25 Integrated Resource Plan at the time it published the

1 April 13th article?

2 A. (MR. BRYNER) Yes.

3 Q. In fact, it was, if it's not still now, one of
4 their exhibits, correct?

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

6 Q. And of the 775 megawatts of generation additions
7 called for in UNSE's IRP, the Company is seeking a
8 disclaimer associated with just the 200 megawatts of
9 natural gas units, correct?

10 A. (MR. BRYNER) That's correct.

11 Q. Will a CEC application be required to construct
12 the other 575 megawatts of capacity called for?

13 A. (MR. BRYNER) No, it wouldn't be, because there's
14 350 megawatts that are identified as being from a wind or
15 solar resource, and 225 additional megawatts that are for
16 battery storage. And so both of those are considered
17 nonthermal. And so, thus, as we discussed, would not
18 require a CEC under the statute.

19 Q. Does ArISEIA object to the exemption of these
20 nonthermal facilities from the CEC process?

21 A. (MR. BRYNER) Not that I'm aware of.

22 Q. Do you have any final comments you would like to
23 make?

24 A. (MR. BRYNER) Nothing at this time.

25 MS. GRABEL: Mr. Bryner and Mr. Bearce are

1 now available for cross-examination.

2 CHMN STAFFORD: All right.

3 Sierra Club, your witnesses.

4 MR. WOOLSEY: Thank you, Mr. Chairman.

5

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

7 BY MR. WOOLSEY:

8 Q. And, good afternoon, Mr. Bryner and Mr. Bearce.
9 I'm sorry, I can't quite see Mr. Bearce behind the podium
10 over there. So I'm going to direct my questions
11 primarily to Mr. Bryner, but please feel free to refer me
12 to Mr. Bearce if he's better positioned to answer a
13 particular question.

14 Mr. Bryner and Mr. Bearce, do you happen to have
15 access to copies of Sierra Club's exhibits that were
16 exchanged between the parties? And if you don't, I have
17 extra binders here that I could give you, with the
18 Chairman's permission?

19 A. (MR. BRYNER) We have them here in front us.

20 Q. You have them, okay.

21 So I guess, diving in.

22 Mr. Bryner, you're not an engineer, correct?

23 A. (MR. BRYNER) That's correct.

24 Q. And you're also not an attorney?

25 A. (MR. BRYNER) That's also correct.

1 Q. Okay. So I wanted to -- I wanted to go back to
2 this issue of the four new Black Mountain units and their
3 connections to shared equipment. And so I'd actually
4 like to start by taking a look at Exhibit Sierra Club
5 SC-3. And I think I actually want to put this one up on
6 the screen, if I can. So I think I will try to do that.
7 I just have to figure out how to get this on the screen
8 there?

9 UNIDENTIFIED SPEAKER: You're there. It's
10 in the control room.

11 MR. WOOLSEY: I'm not seeing it yet on
12 the --

13 UNIDENTIFIED SPEAKER: There it is.

14 MR. WOOLSEY: There we go.

15 Q. So -- and then this is also Tab 3 in Sierra
16 Club's binder for the Committee members.

17 So, Mr. Bryner, this is a site plan of the
18 proposed Black Mountain Expansion, correct?

19 A. (MR. BRYNER) Yeah, it's a schematic.

20 Q. And this diagram shows that all four proposed
21 units would be located at the same power plant site,
22 correct?

23 A. (MR. BRYNER) Yeah, that's correct.

24 MS. GRABEL: Actually, Mr. Chairman, I
25 needed to object to the use of the word "plant" to the

1 extent it calls for a legal conclusion.

2 CHMN STAFFORD: I think he's using "plant"
3 in the terms of kind of a generic way, not as defined by
4 the statute.

5 MR. WOOLSEY: That's correct, Mr. Chairman.
6 I'm not intending to ask for a legal conclusion.

7 MS. GRABEL: Perhaps he could use the
8 phrase "BMGS" or "Black Mountain Generating Station,"
9 just to avoid -- to have a clear record.

10 CHMN STAFFORD: Okay. So the term
11 "generating station," is that --

12 MS. GRABEL: I'm good with that.

13 CHMN STAFFORD: -- no one's contesting
14 "generating station?"

15 Okay. Please proceed.

16 BY MR. WOOLSEY:

17 Q. So, Mr. Bryner, on this site plan equipment and
18 facilities that UNSE expects would be shared between two
19 or more turbines or generators are shaded in gray and
20 highlighted in yellow as shown in the key in the upper
21 left; is that correct?

22 A. (MR. BRYNER) Yes, that's correct.

23 Q. Okay. And then I'd like to pull up Exhibit
24 UNS-11, which is the same as exhibit Sierra Club 2,
25 apologies, we should have withdrawn Sierra Club 2 because

1 they are the same document. And we have that up on the
2 screen as well.

3 So in this document, UNS listed out shared
4 equipment and facilities that the Company expects two or
5 more of the proposed new Black Mountain units would rely
6 on, correct?

7 A. (MR. BRYNER) So it has all of the equipment, all
8 of the major equipment listed, and it does have things
9 that are identified to be individual for each of the
10 generating units and then it has the facilities that
11 would be shared.

12 Q. Okay. And, specifically, for those shared
13 items, the items that are identified in the second column
14 as being shared, there are 12 types of equipment or
15 facilities that are identified as shared between all four
16 turbines and four types of equipment that would be shared
17 between two turbines each; is that correct?

18 A. (MR. BRYNER) You just have to give me a minute
19 to count.

20 Can you repeat your numbers for which things?

21 Q. Sure.

22 So 12 items that would be shared between all
23 four units, and four items that would be shared between
24 two units each?

25 A. (MR. BRYNER) That appears correct.

1 Q. Thank you.

2 So just to talk about a few of these specific
3 items, so each of the four new Black Mountain units would
4 be physically connected to the same shared air
5 compressor, correct? And if it's helpful, in Exhibit
6 UNSE-11 that's row 27, noting the shared air compressor.

7 A. (MR. BRYNER) Yeah, that is helpful. I was
8 trying to find it on there. So each of them would --
9 would share the air compressor. I wouldn't say that
10 they're connected through the air compressor.

11 Q. Well, so I didn't ask connected through the air
12 compressor, I asked would they be physically connected to
13 the air compressor. Would they be physically connected
14 to the air compressor?

15 A. (MR. BRYNER) I'll let Dylan go ahead and take
16 that.

17 A. (MR. BEARCE) So the instrument air compressor
18 supplies air for multiple -- oh, there you are -- the
19 instrument air supplies air to multiple units, because of
20 the economies of scale, but that doesn't mean that
21 they're physically connected, because it's not used for
22 the generation of electricity or for the energy
23 conversion.

24 Q. Well, so how is that air transmitted to the
25 units?

1 A. (MR. BEARCE) Through tubing.

2 Q. Through tubing. And that tubing runs from the
3 compressor to each unit; is that correct?

4 A. (MR. BEARCE) To auxiliary equipment that --
5 valve actuators.

6 Q. To valve actuators at each unit?

7 A. (MR. BEARCE) To the associated auxiliaries for
8 each unit, yes.

9 Q. Okay. Mr. Bryner, could we go back to your
10 presentation, Exhibit UNSE-4, and maybe we'll -- we can
11 put that one up too.

12 A. (MR. BRYNER) Actually, it's in that binder.

13 Q. There it is, okay.

14 Actually, Nihal, would you be able to -- so
15 could we -- could we turn to page 33 in your
16 presentation.

17 CHMN STAFFORD: Is that UNSE-4?

18 MR. WOOLSEY: Correct, yes, Exhibit UNSE-4.
19 Mr. Bryner's presentation.

20 Q. And my apologies, it looks like the page numbers
21 in this one are different than the copy that I have. But
22 I'm looking for the page that shows the cooling towers,
23 which I think are 33 in the PDF, but they may be 34 or 32
24 in this version. There we go. 32. Okay, so I guess my
25 page numbers are off by one.

1 So Mr. Bryner, UNS expects that the two shared
2 cooling towers would be connected to the new Black
3 Mountain units, two units to each cooling tower, correct?

4 A. (MR. BRYNER) Again, the word "connected," I
5 would say two would be shared between -- or two units
6 would share one cooling tower.

7 Q. Well, so let's talk about what I'm referring to
8 with "connected." Would you expect that there would be
9 piping or tubing running between the cooling towers in
10 each of the four units?

11 A. (MR. BRYNER) So, as I mentioned in my testimony,
12 looking at Units 1 and 2 today, there is piping that goes
13 from the cooling tower to Unit 1. And then at Unit 1,
14 that piping goes into cooling coils and is controlled by
15 individual temperature controls and there's separate
16 tubing or piping that goes to Unit 2 for the same
17 function. So it would be similar for that.

18 Q. Right. And both of those sets of tubing or
19 piping that you're describing, both would go to the
20 existing units, correct?

21 A. (MR. BRYNER) They would. That cooling tower
22 would be shared between them.

23 Q. And you'd expect a similar configuration for the
24 four new units wherein each of the two cooling towers
25 would have tubing or piping running to the two new units?

1 A. (MR. BRYNER) Yes, we would expect a similar
2 configuration.

3 Q. Okay. So the Company -- well, I'm sorry, so
4 just to confirm, then, so, for example, one of the new
5 Black Mountain units would be physically connected via
6 piping to a cooling tower, and that same cooling tower
7 would be physically connected via piping to another
8 generating unit, correct?

9 MS. GRABEL: I'm going to object to that;
10 it misstates Mr. Bryner's testimony.

11 CHMN STAFFORD: Could you please rephrase
12 that.

13 BY MR. WOOLSEY:

14 Q. Okay. So -- so we're talking about how there
15 would be two cooling towers shared between the four new
16 units, correct?

17 A. (MR. BRYNER) Yes.

18 Q. And we're talking about how, similar to the
19 existing units, each of those cooling towers would have
20 piping or tubing connecting it to two of the units,
21 correct?

22 A. (MR. BRYNER) So I think it's the word
23 "connecting" that we're having an issue with. I would
24 say that the cooling tower would serve the function of
25 providing that cooling element for each of the units.

1 Q. Okay. So the piping or tubing, one end of it is
2 connected to the cooling tower; would you agree with
3 that?

4 A. (MR. BRYNER) Correct.

5 Q. And where does the other end of that piping or
6 tubing go?

7 A. (MR. BRYNER) It would go to one of the
8 generating units.

9 Q. Okay. So it sounds, then, like we're in
10 agreement that piping or tubing connects the cooling
11 tower with the generator unit, no? If both -- if one end
12 of the tube is connected to the cooling tower and the
13 other end of the tube is connected to the unit?

14 A. (MR. BRYNER) I'll let Mr. Bearce go ahead and
15 give that a go.

16 A. (MR. BEARCE) So in the interest of trying to be
17 clear, when we define "generating unit," it's the
18 necessary equipment required for the conversion of energy
19 for the production of electricity. The cooling tower is
20 not required, therefore, don't see that as connected in
21 the way that I think it's attempting to be illustrated,
22 and so we consider these separate cooling loops with the
23 shared cooling tower, in essence, having their own
24 cooling flow paths through separately regulated flows,
25 coils, and control systems, in a summer peak need for

1 efficiency's sake, not for generation of electricity. So
2 the word "connected" is apparently a hang-up, but the
3 separate loops is to where I can't agree with your
4 statements.

5 Q. Well, so, again, I'm not asking about
6 connections -- direct connections between one unit and
7 another unit, I'm just asking the tubing, the coils, the
8 pipes that we're talking about, one end is connected to a
9 cooling tower and the other end is running around or near
10 or through the actual generator and turbine set, right;
11 is that correct?

12 A. (MR. BEARCE) That's correct.

13 Q. Okay. Let's move on. So UNS expects that all
14 four new Black Mountain units would be physically
15 connected to the same demineralized water tanks and water
16 pumps, correct?

17 A. (MR. BRYNER) I think we're going to run into the
18 same kind of issue there. So yes, those demineralized
19 water pumps, those would be shared between them, but in
20 the same manner as Mr. Bearce mentioned, they're not
21 physically connected in the sense of providing
22 that -- that electric generating function.

23 Q. So I assume there are pipes running from the
24 water tanks and water pumps, correct?

25 A. (MR. BRYNER) Correct.

1 Q. And where do those pipes go?

2 A. (MR. BRYNER) So, again, in the same way as we
3 talked on the cooling towers, it's going to go to the one
4 of the generating units.

5 Q. Okay. And so when you say that the pipe goes to
6 the generating units, what exactly do you mean?

7 A. (MR. BRYNER) I'm going to have Mr. Bearce go
8 into a little more technical background on that.

9 A. (MR. BEARCE) Okay. So you're speaking, just for
10 clarification, Mr. Woolsey, you're speaking to the
11 demineralized tanks; is that correct?

12 Q. So I was asking about the demineralized water
13 tanks and the water pumps and the piping associated with
14 both of those.

15 A. (MR. BEARCE) Okay. So the raw water pumps pump
16 raw water to the water purification systems, the RO that
17 Mr. Bryner had put in his direct testimony. That then
18 pipes it to be demineralized through the RO and goes into
19 holding tanks. There is no generating unit affiliated
20 from that cycle that you're describing.

21 Q. And then from the holding tanks, what happens
22 next? Where does the water go?

23 A. (MR. BEARCE) It stays there until there's a
24 demand asked by the unit.

25 Q. And what happens when there's a demand asked by

1 the unit?

2 A. (MR. BEARCE) So each generating unit -- we
3 haven't had final design so there's a caveat here -- but
4 each generating unit would have, for NOx injection water
5 for a Title V air permit, emissions requirements, not for
6 the generation of electricity, but we don't know the
7 final piping schematic of it. In the interest of meeting
8 the parties and being as descriptive as we can, we've
9 given you a general arrangement drawing. I can't say
10 with certainty that they won't have their own pumps and
11 their own pipes or if there will be some sort of
12 different configuration.

13 But, typically, for emissions controls-related
14 monitoring and inputs they have their own system feeds to
15 minimize risk of damaging the environment and to manage
16 better controls.

17 Q. Okay. But for the time being anyway, the
18 Company has identified that the Company expects that the
19 water -- the demineralized water tanks and the water
20 pumps would be shared, such that they would serve all
21 four units, correct?

22 A. (MR. BEARCE) We assert that those common
23 facilities would support the auxiliary feed to the
24 system. How they'll be used is undetermined yet.

25 CHMN STAFFORD: How many -- let me jump in

1 real quick -- how many tanks are there?

2 MR. BEARCE: Right now?

3 CHMN STAFFORD: For the current setup.

4 MR. BEARCE: I believe there are four.

5 CHMN STAFFORD: Four tanks for the two
6 units that exist?

7 MR. BEARCE: That's correct.

8 CHMN STAFFORD: And how many tanks would
9 there be for the four new units?

10 MR. BEARCE: I don't know the answer to
11 that.

12 CHMN STAFFORD: It could be one, it could
13 be 20?

14 MR. BEARCE: Yeah, that's where the
15 detailed engineering comes in, to identify what's the
16 right capacity, what if you get contamination of one
17 tank, you know, there's a lot of factors that go into the
18 design characteristics, which makes a lot of this
19 questioning very difficult to be specific, because we
20 don't know. They're similar units and so from that
21 respect there could be two tanks per unit. We don't know
22 the answer to that. And in the interest of trying to be
23 just candid with what we do and we don't know, you know,
24 if there's a sized bigger, it could be one tank per, in
25 theory.

1 CHMN STAFFORD: But right now you said for
2 the two units that exist, there's four tanks?

3 MR. BEARCE: That's correct.

4 CHMN STAFFORD: Now, can Unit 1 draw from
5 all four tanks or only from one or two tanks?

6 MR. BEARCE: I actually don't know the
7 answer to that, I'm sorry. So --

8 CHMN STAFFORD: All right. I guess -- so I
9 guess that's something to follow up at a break, because
10 I'm interested to know, because there's four existing
11 tanks with two units, can each unit draw water from a
12 subset of those four or from all four?

13 MR. BEARCE: Yeah, to be fair, Mr. Chair,
14 none of those are required for the generation of
15 electricity, but we can certainly follow up on that.

16 CHMN STAFFORD: Right, I just -- for my own
17 edification and that of the panel's, thank you. All
18 right.

19 MEMBER GOLD: Mr. Chairman?

20 CHMN STAFFORD: Yes, Member Gold.

21 MEMBER GOLD: And I don't know if this is
22 out of line, but it's a common sense question. One side
23 is saying that only the, get the right terminology, the
24 generating units are what we should be concerned with,
25 and the other side is saying that it's not only the

1 generation units, but it's any unit that's ancillary to
2 the generation units that should be considered. And to
3 take it to one step from absurdity, so we can limit this,
4 is everything uses the air around the units. So,
5 technically, from a layman's point of view, they're all
6 connected by the air. They all use the same air. But
7 legally, we're talking about the generating unit. We're
8 only discussing the generators and the turbines; am I
9 correct in that assumption?

10 CHMN STAFFORD: No, we're looking at the
11 whole physical layout for the existing and the proposed
12 plant to establish what the facts -- what it will look
13 like, so they'll have four units new, proposed, they're
14 each 50 -- well, I guess 61-megawatt nameplate rating,
15 that's a fact that we've established through the
16 testimony. It will be up to this Committee to ultimately
17 determine whether those four units are indeed separate or
18 not.

19 And the applicant, who is arguing that they
20 should be considered separate, is making -- trying to
21 draw the line between the actual generators and the
22 nameplate, whereas the intervenors are trying to draw
23 attention to the fact that they're connected in other
24 ways, so they should not be regarded as separate under
25 the statute.

1 MEMBER GOLD: So this is a semantic issue
2 that we have to resolve and make a recommendation on?

3 CHMN STAFFORD: On the interpretation of
4 law. Right now they're just trying to establish the
5 facts of what is proposed and what exists at the current
6 site.

7 MEMBER GOLD: Thank you.

8 MEMBER HILL: Mr. Chair, I have a question.

9 CHMN STAFFORD: Yes, Member Hill.

10 MEMBER HILL: If all of these, as they
11 described, ancillary facilities --

12 MEMBER KRYDER: Move a little closer to the
13 mic.

14 MEMBER HILL: If all of these ancillary
15 facilities are not necessary for generating electricity,
16 can you tell me why you're building them?

17 MR. BEARCE: So trying to stay pretty black
18 and white. And so I'll do my best to stay --

19 MEMBER HILL: Because it feels really gray.

20 MR. BEARCE: And I think it's a semantics
21 piece. And so there are very specific functions that
22 convert a chemical energy, in this case natural gas, to
23 electrical energy, and to stay consistent with the letter
24 of the law, as I'll describe it, that's that process that
25 is really what drives and affects the nameplate rating,

1 the functional actual generation of the asset. All of
2 the auxiliaries really blur the line and can call out
3 other things. But you do have to have support
4 facilities.

5 For example, the one that was given is do
6 you have a long-term service agreement with the
7 third-party vendor? That's a business decision to say
8 we're going to do the work in-house, and now we need to
9 build a shop, versus we don't need to, we're going to
10 ship it to Houston to their depot to have them do the
11 work.

12 They support the overall effort and the
13 mission of the station, but not everything is directly
14 tied to that energy conversion. And so, in the interest
15 of trying to stay consistent with what the statute reads,
16 it's that thermal conversion, and that's the part that we
17 focus heavily on, because that's really what's mostly
18 relevant.

19 We could physically submit a general
20 arrangement that has nothing connected to anything and
21 there's no questions asked and we could have four new
22 ROs, et cetera, that's -- that's not -- it's not always a
23 bad idea, it's not always a good idea. It's just our
24 proposed plan is saying those aren't part of the energy
25 conversion process. It just has more to do with they're

1 auxiliary equipment, and there's a lot of different ways
2 to do it. And engineering providers do it differently.
3 And so -- sorry if that doesn't answer your question --
4 but those are some of the pieces to where everything we
5 build is prudent and goes towards the mission, but not
6 everything we build is in direct, you know, influence
7 over the ability for a unit to generate electricity. And
8 specifically all the time, like the cooling tower.
9 That's used seasonally, given the harsh environment of
10 Arizona in the summer. It's needed, but not needed every
11 moment of every day.

12 MEMBER HILL: And my follow-up is on the
13 pumps or the water discussion. It sounds like you need
14 the water to meet federal air permits; is that correct?

15 MR. BEARCE: Yes.

16 MEMBER HILL: It just starts to feel like
17 you need that to get your permit to generate electricity,
18 so I'm just struggling with are there pieces of these
19 ancillary facilities that you actually do need to
20 generate electricity legally under state and federal law?

21 MR. BEARCE: Yeah, now, I don't -- I don't
22 disregard what you had said, how it's going to be
23 configured, whether it be their own skid on a per unit
24 basis, I don't have answers to that.

25 MEMBER HILL: Okay.

1 MR. BEARCE: But that's not part of the
2 energy conversion process and so I just, to your point,
3 to be fair, yes, it is needed to meet emissions profiles.
4 That's part of it. But it's not the whole story. So the
5 piping configuration, we don't know. The systems that
6 were on display were just for water purification
7 processes.

8 MEMBER HILL: Okay. Thank you.

9 CHMN STAFFORD: The water serves two
10 purposes at the generator, doesn't it? One is to reduce
11 emissions and another for cooling to improve efficiency
12 in the hot weather, correct?

13 MR. BEARCE: That's correct.

14 CHMN STAFFORD: Are those two separate
15 loops, are they all -- for water coming in there -- I'm
16 assuming it's all treated water that's used for both
17 functions?

18 MR. BEARCE: That's correct.

19 CHMN STAFFORD: Okay. Member Richins.

20 MEMBER RICHINS: The plant is fed by
21 natural gas, correct?

22 MR. BRYNER: That's an easy question, I'll
23 take that.

24 Yes.

25 MEMBER RICHINS: Softballs first.

1 Where does that gas originate from to get
2 to the plant?

3 MR. BRYNER: It gets more challenging, so
4 I'll go to Mr. Bearce.

5 MEMBER RICHINS: You're welcome. I told
6 you, softballs first.

7 MR. BEARCE: I was never good at softball.
8 So it comes off the main header, we have a
9 dedicated line that enters the campus.

10 MEMBER RICHINS: Where does that run from
11 and to through that -- through Mohave Valley, Golden
12 Valley -- is it Golden Valley or Mohave Valley?

13 MR. BEARCE: I'm actually not very
14 knowledgeable with the routing of that piping, so I
15 apologize if I don't know. I'm hearing Golden Valley.

16 MEMBER RICHINS: Is it just one line
17 feeding that plant into the whole plant?

18 MR. BEARCE: It enters in the exchange of
19 custody in a single-metering station entering the
20 station, yes.

21 MEMBER RICHINS: Okay. So in order for
22 that generating station -- we're not using "plant" -- to
23 function, that natural gas feeds into the whole facility
24 from one location into that plant, into that generating
25 station? Just confirming that, right?

1 MR. BEARCE: (No audible response.)

2 MEMBER RICHINS: And then the electrons,
3 once they're generated, once you make that conversion
4 from thermal to electric, where those electrons likely to
5 go? Are they going to other markets? Are they feeding
6 your customers directly? Is there a purchase agreement?
7 Are they going to California? What does that look like?

8 MS. GRABEL: Would you like me to answer?

9 I'm not sure, Member Richins, whether or
10 not these witnesses are qualified to answer that, but I
11 can help you if that would be useful.

12 MEMBER RICHINS: Of course.

13 MS. GRABEL: Okay. Thank you.

14 So I mean, I think that Mr. Bearce
15 testified earlier that right now they are taking
16 purchases from the market, and this would be displacing
17 that market purchases, which means that it is being used
18 to serve the load in that area.

19 MEMBER RICHINS: That's right. Okay.

20 And do you anticipate an increased load of
21 at least 200 megawatts in that region, according to
22 your -- that article that you referenced a little
23 earlier?

24 MS. GRABEL: I'll let Mr. Bryner take that
25 one.

1 MEMBER FONTES: Can you point that out in
2 the IRP, too?

3 MR. BRYNER: It is in the IRP, I'll have
4 to --

5 MEMBER FONTES: That specific subregion,
6 the load increase.

7 MR. BRYNER: So I can't point out the load
8 increase. I mean, there are load projections in the IRP,
9 but specifically today we already have a deficiency and
10 we're buying, I think at least this amount of electricity
11 on the open market. And so -- so that we're not subject
12 to market volatility, this will -- will decrease those
13 risks.

14 MEMBER RICHINS: Okay.

15 MEMBER FONTES: For this particular part of
16 the system, are you talking about TEP, or are you talking
17 about UNS?

18 MR. BRYNER: UNS.

19 MEMBER FONTES: UNS for that -- for those
20 counties?

21 MR. BRYNER: Correct. For Mohave and Santa
22 Cruz counties.

23 Do you want us to find the specific
24 location?

25 MEMBER FONTES: Just the load growth, just

1 so we can see it's consistent with the 200 megawatts, the
2 displaced.

3 MR. BRYNER: Maybe on our next break, we
4 can grab that.

5 CHMN STAFFORD: Before we go too far down
6 that road. This is not the, you know, environmental
7 review. We're not going to issue a CEC as a result of
8 this proceeding. We're just trying to get to the facts
9 of how the existing plant is configured, and how the new
10 plant will be configured. The matter of purpose and
11 load, those are really not completely relevant to this
12 proceeding to figure out what does this proposed plant
13 fit the definition of the statute, such that it would
14 require a CEC or not. So things like we'd normally ask
15 at these things, they're less important in this context
16 for today's proceeding.

17 MEMBER FONTES: Yes, Mr. Chairman. I was
18 just looking at it in terms of the energy conversion,
19 just so we can look at the future so we know that that
20 load is there for the energy conversion. I almost want
21 to ask the same thing on the gas. Is it one single gas
22 contract or is it separate gas contracts, because you're
23 characterizing these as separate units that are operating
24 independent and dispatching. So just trying to focus it
25 on --

1 CHMN STAFFORD: That's a good question,
2 what's the --

3 (Cross-talk.)

4 MEMBER FONTES: I'm focusing on the intake
5 and the outtake in terms of this energy conversion
6 conversation that Mr. Woolsey started at the plant level,
7 by understanding it at the system level, if you will,
8 Mr. Chairman.

9 CHMN STAFFORD: Yes, the gas -- you've
10 already stated the gas flows into the site for both the
11 existing plant and the new plant. They'll both be served
12 by one meter, correct? That's what I heard.

13 MR. BEARCE: So -- so I want to be specific
14 here. I'll talk slower, sorry.

15 The natural gas enters the site through one
16 primary pipeline off the main header. And I think it
17 passes through Golden Valley. When it enters the campus,
18 that is what we call the exchange of custody where the
19 gas supplier meters total volume are met. At that stage,
20 we have to meter and flow gas independently no matter how
21 many units are there, for a number of reasons. But
22 that's what we do and they have individual meters.

23 So -- so while, yes, it enters the campus
24 with one pipe, it spiderwebs out to whatever number of
25 generating units exist at a given station.

1 CHMN STAFFORD: Right. And there are
2 separate meters that are, I guess, for you to track the
3 internal usage by each generator?

4 MR. BEARCE: That's correct.

5 CHMN STAFFORD: But you get a build based
6 on the meter, the one meter where the change of custody
7 takes place?

8 MR. BEARCE: Yeah, the fuels group works
9 through all of that. And so I'm not -- I'm not an expert
10 on how all the inner workings, I know enough to be
11 dangerous here, but I do know that it's more complicated
12 than that, so that's the level of my expertise.

13 CHMN STAFFORD: And what about the fuel
14 contract, do you have any knowledge of what the fuel
15 contract is for the existing unit and what it would
16 possibly be for the addition of four other generators?

17 MS. GRABEL: Mr. Chairman, I don't want
18 Mr. Bearce to speculate. We did respond to a data
19 request on this exact subject, we're looking for it now.
20 And give us the opportunity, maybe after a break we can
21 come back and talk about this --

22 CHMN STAFFORD: Is this one of your
23 exhibits, Mr. Woolsey?

24 MR. WOOLSEY: It is. And I was actually
25 planning to ask about that further on in my cross-exam.

1 CHMN STAFFORD: All right. Well, let's let
2 Mr. Woolsey continue with his cross-examination. It
3 seems like we're jumping ahead to the questions he's
4 about to get answers for.

5 So please proceed, Mr. Woolsey.

6 MR. WOOLSEY: Thank you, Mr. Chairman. And
7 I appreciate the Committee members' questions. I think
8 they're getting at some of the same things I was going to
9 ask.

10 Q. I thought, just briefly, we had some discussion,
11 Mr. Bryner, about the quantities of some of the shared
12 equipment, so I thought it might be helpful if you'd
13 refer to Sierra Club Exhibit SC-13, which I think we can
14 put up on the screen as well.

15 And, Mr. Bryner, this is a UNS response to a
16 Sierra Club discovery request, correct?

17 A. (MR. BRYNER) That's correct.

18 Q. And so we were talking about the demineralized
19 water tank, which is listed as item M there. And then if
20 you -- if you scroll to the second page into the
21 Company's response under item M, it says "one per four
22 LM6000s," correct?

23 A. That's correct.

24 Q. Okay. So there would be one shared
25 demineralized water tank between the four units, correct?

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

2 Q. Okay. Thank you.

3 So following up on some of the discussion that
4 we just had about cooling systems, cooling improves
5 efficiency, correct?

6 A. (MR. BRYNER) that's correct.

7 Q. And, therefore, output?

8 A. (MR. BRYNER) I'm going to let Mr. Bearce answer
9 that, because he's a little more of an expert on it.

10 A. (MR. BEARCE) So could you please restate the
11 question?

12 Q. So my question is the cooling systems that we've
13 been discussing for the proposed Black Mountain units, do
14 cooling systems improve the output of a generator?

15 A. (MR. BEARCE) They can.

16 Q. Okay. So we've already talked quite a bit about
17 the water tanks and water pumps. I think I'll skip over
18 the rest of my questions there, because I think the
19 Committee members have addressed those.

20 The four new Black Mountain units would all be
21 connected to the same shared evaporation pond, correct?

22 A. (MR. BRYNER) Yes.

23 Q. And that connection, would that be via some kind
24 of pipe or conduit?

25 A. (MR. BRYNER) I don't have the answer to that,

1 but I'll betcha Mr. Bearce does.

2 A. (MR. BEARCE) Yes.

3 Q. That would be yes, via a pipe or a conduit?

4 A. (MR. BEARCE) Yeah, the reverse osmosis reject
5 water from the shared system RO would go directly to the
6 cooling tower through a pipe.

7 Q. So that would be a single pipe, then, that would
8 be carrying the water that served all four units?

9 A. (MR. BEARCE) That water going to the pond
10 doesn't serve a unit.

11 Q. Well, but it has -- that water has served a
12 function, correct?

13 A. (MR. BEARCE) That water is the -- sorry, I'm
14 leaning over Clark here. It's impolite the way we have
15 these mics, I apologize -- so the way the reverse osmosis
16 works is you have a product water and you have a reject
17 water. The reject water is the unusable water, and that
18 goes to the pond. They don't go to the generating unit.

19 Q. Right. And that reverse osmosis system, again,
20 though, that system is serving all four units, correct?

21 A. (MR. BEARCE) As preliminarily designed, yes.

22 Q. Okay. The new Black Mountain units would also
23 be connected to two shared power distribution centers and
24 two shared power control modules; is that correct?

25 A. (MR. BEARCE) Want me to continue or you want to

1 continue?

2 A. (MR. BRYNER) Keep going.

3 A. (MR. BEARCE) Could you point to the line items.

4 Q. Sure. So on Exhibit UNS-11 power control
5 modules are listed on row 7, and power distribution
6 centers are listed on row 25, and both of those are
7 identified by the Company as being shared.

8 Do you see that?

9 A. (MR. BEARCE) Sorry, I was in the SC binder,
10 not -- I was referring to the other document you were
11 referencing earlier.

12 Q. So this is in Exhibit UNS-11. It's also, if
13 you're in the Sierra Club binder, I believe it's Exhibit
14 Sierra Club 2, it's the same document.

15 A. (MR. BEARCE) Okay. Yeah, I'm with you now.

16 Q. Okay. So just to repeat the question, the new
17 Black Mountain units would be connected to two shared
18 power distribution centers and two shared power control
19 modules, correct? And, again, that's kind of -- row 7 is
20 power control modules and row 25 is power distribution
21 centers.

22 A. (MR. BEARCE) Okay. Yes. I have great eyes, I'm
23 sorry, I'm struggling to see it from here.

24 Q. Okay. And would you expect that each of those
25 power control modules would be connected to two of the

1 new Black Mountain units via wiring?

2 A. (MR. BEARCE) I'm actually not familiar with the
3 entire schematic, but they would be controlling them.

4 Q. Okay. And that -- but that control
5 presumably -- when you say "control," presumably that
6 means there's some kinds of signals that would be
7 transmitted in some way from the control modules to the
8 units, correct?

9 A. (MR. BEARCE) It depends on the input. Some of
10 it goes over communications through a distributed control
11 system, not necessarily hard-wired.

12 Q. Okay. So it could be -- you're saying some of
13 it could be wireless?

14 A. (MR. BEARCE) They wouldn't be a direct from the
15 LVC to the unit is what I'm saying.

16 Q. Okay. But, again, you said you're not certain,
17 at this point how -- how those control modules would be
18 connected because this is still preliminary; is that
19 correct?

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

21 Q. Okay. The Company expects that two shared
22 step-up transformers would be connected to the new Black
23 Mountain units, correct?

24 A. (MR. BEARCE) That's correct.

25 Q. And would you expect that each of the step-up

1 transformers would be connected to two of the new units
2 via wiring?

3 A. (MR. BEARCE) This gets pretty technical. I'm
4 not sure it's relevant to the conversion of energy.

5 Q. Well, the reason I'm asking, Mr. Bearce, is,
6 again, because I'm asking about the connection here,
7 because I think these facts bear on, you know, the
8 question of, you know, whether these are connected units
9 or separate units, so that's why I'm asking.

10 A. (MR. BEARCE) So my simple answer is it depends
11 on the design of the transformer. And if we end up with
12 a three-coil GSU, they'll have independent coils and they
13 will transmit through induction, not through hard wiring.
14 I don't have an answer on the design of the transformers.

15 Q. Okay. But, again, the Company has identified
16 the transformers as being shared, correct?

17 A. (MR. BEARCE) That's correct.

18 Q. Okay. And all four of the new Black Mountain
19 units would ultimately be connected to the same external
20 gen-tie line running to the site, correct?

21 A. (MR. BEARCE) That's correct.

22 Q. Okay. So would it be fair to say that setting
23 aside the storage building, in most other cases where UNS
24 has identified equipment that would be shared, that
25 shared equipment would be connected to two or more of the

1 new units in some fashion, whether it be by pipes, tubes,
2 wires or some other type of physical conduit?

3 A. (MR. BEARCE) I'll just defer back to our answer
4 in the data request and stick with the numbers that were
5 confirmed today.

6 Q. So is it you don't have an answer to that
7 question?

8 A. (MR. BEARCE) I don't want to make a general
9 response. I will say that the -- they're outlined as
10 according to the data request that was fulfilled by the
11 Company.

12 Q. Well, so the Company's response to the data
13 request identifies expected quantities of equipment and
14 whether the Company expects that the equipment would be
15 shared. But I'm asking something a little different
16 here. I'm asking about how that shared equipment would
17 be connected to the new generators and the new turbines,
18 so it's a different question, Mr. Bearce, than what's in
19 the data request.

20 A. (MR. BEARCE) So, just to be clear, what was your
21 question that you asked me?

22 Q. So we've been walking through item by item
23 various items of shared equipment, but I -- you know, in
24 the interest of time, I was just trying to get at a more
25 general question here, which is that, you know, setting

1 aside the storage building, is it fair to say that in
2 most other cases where the Company has identified shared
3 equipment, that that shared equipment would have some
4 kind of physical connection to two or more of the new
5 generators or turbines, the new units, whether that be by
6 pipes, tubes, wires, or some other type of conduit?

7 A. (MR. BEARCE) I would say greater than 50 percent
8 would be.

9 Q. Okay, thank you.

10 So the four new units would be supplied with gas
11 from the same external gas pipeline, correct?

12 A. (MR. BEARCE) Correct.

13 Q. And I believe before one of the Committee
14 members had a question about fuel contracts and all, just
15 to confirm, all four units would burn gas purchased under
16 the same fuel contracts; is that right?

17 A. (MR. BEARCE) I don't work on the gas side. I'm
18 not familiar enough to answer that question.

19 Q. Okay. Fair enough.

20 And, Mr. Bryner, I assume the same is true for
21 you?

22 A. (MR. BRYNER) That's correct.

23 MS. GRABEL: Well, Mr. Chairman, I'd like
24 to object. One of his exhibits, if you look at Sierra
25 Club Exhibit Number 5, answers the question that he's

1 asking, and so if he would like to read from his own
2 exhibit and ask the witness's understanding of that
3 exhibit, that might short-circuit come of this.

4 CHMN STAFFORD: Well, who at UniSource
5 provided the response to that data request?

6 MS. GRABEL: It's an individual who is not
7 present here today.

8 CHMN STAFFORD: Okay. Well, then, I guess
9 direct them to that response and then ask them to read
10 it, because they can't testify to it, because the person
11 who answered the data request is not testifying today.

12 MR. WOOLSEY: Fair enough.

13 Q. Okay. So that's -- that's, as Ms. Grabel
14 pointed out, that's Exhibit Sierra Club 5, which is the
15 Company's response to Sierra Club data request 1.13.

16 And would you let me know when you have that in
17 front of you?

18 A. (MR. BRYNER) I have it.

19 Q. And so do you see where it says, "UNSE does not
20 have fuel purchase contracts specific to any unit, but
21 purchases and schedules the delivery of fuel from
22 suppliers based on the expected dispatch of each
23 individual unit on an as-needed day-ahead basis."

24 Do you see that?

25 A. (MR. BRYNER) I see that.

1 Q. Okay. And so my question, again, because I
2 wasn't entirely clear from the Company's response here
3 is, would all four new units burn gas purchased under the
4 same fuel contracts, plural, and I understand the
5 Company's response saying there are not contracts
6 specific to any unit, but that's not what I'm asking.

7 A. (MR. BRYNER) So, as we just mentioned, we're not
8 experts in this area, so this is the response that we
9 have.

10 Q. Fair enough. So let's -- let's move on.

11 If you were to remove all of the shared
12 equipment, much of which we've discussed that's listed in
13 Exhibit UNSE-11, leaving only the equipment that's listed
14 in that exhibit by the Company as being specific to each
15 unit, in other words, if there were no shared air
16 compressor, no power control module, no step-up
17 transformers, none of the shared equipment, would the
18 four units still be able to operate and deliver power to
19 the grid if they had no air compressor or no power
20 control module or any of that other shared equipment?

21 A. (MR. BEARCE) I've got to go through that list
22 here to make sure, because if we don't have a step-up
23 transformer transmit, it could self-generate and it could
24 run.

25 Q. What about the air compressor, though?

1 A. (MR. BEARCE) We could do that with bottles.

2 Q. With bottles?

3 A. (MR. BEARCE) Oxygen bottles.

4 Q. Okay. So you're talking about alternatives to
5 some of this equipment, but I guess what I'm asking is if
6 you were to remove the equipment that's identified as
7 shared and replace it with nothing, so not, you know,
8 swap out these items of shared equipment for other
9 alternatives, but if you were to remove those shared
10 items and replace them with nothing, could the units be
11 able to operate and deliver power?

12 A. (MR. BEARCE) Some you could and some you could
13 not.

14 Q. Some you could not, meaning some of these items,
15 if you were to remove them, the units could not operate?

16 A. (MR. BEARCE) That's -- well --

17 MS. GRABEL: If I could get a clarification
18 of the question. Is the question whether the generating
19 units could operate without the shared facilities or if
20 they could transmit electricity to the grid? Because I
21 heard the question asked both ways.

22 MR. WOOLSEY: Thank you. Both of those.

23 Q. So both be able to operate and be able to
24 deliver power to the grid?

25 CHMN STAFFORD: If they can't deliver power

1 to the grid, there's not much point in operating,
2 thought, is there.

3 MR. BEARCE: Mr. Chair, there is not.

4 BY MR. WOOLSEY:

5 Q. So I take it you're conferring internally or --

6 A. (MR. BEARCE) There's a lot of systems that I
7 have to go through in my head on the spot, so I need a
8 minute, please.

9 Q. Fair enough, please.

10 MS. GRABEL: And I guess, Mr. Chairman, I'm
11 going to object to this question as irrelevant, to the
12 extent that we're deviating from what it takes to
13 generate the nameplate rating associated on the plant.

14 CHMN STAFFORD: Well, I don't -- I don't
15 think that's the only thing that we're looking at really.
16 I mean, the nameplate is like the threshold. That's like
17 the line drawn between what's a major new facility and
18 what's not under the statute. But I think what the point
19 of Mr. Woolsey's questions is to get to the separateness
20 of the units.

21 MS. GRABEL: I fully understand where
22 Mr. Woolsey is going. I'm just thinking that we're
23 talking about the ability of a generating unit to
24 generate energy to produce a nameplate rating of whatever
25 it is. And so my question is maybe it's better -- better

1 phrased as which of these shared facilities are necessary
2 to generate the electricity to meet the nameplate rating?

3 CHMN STAFFORD: There you go.

4 Would you like to ask that question,
5 Mr. Woolsey.

6 MR. WOOLSEY: Well, Mr. Chairman, I
7 preferred the way that you phrased the question. But I
8 think, you know, I would submit that it's not just the
9 question of whether the shared equipment is needed to
10 meet the nameplate rating, but whether it's needed for
11 the units to operate and deliver power, which is how I
12 phrased it.

13 CHMN STAFFORD: Yeah, I think, because
14 you're not going to generate the nameplate rating most of
15 the time. Actually, probably pretty much zero of the
16 time you'll hit the nameplate rating for any of those
17 units.

18 MR. BEARCE: We would never hit the
19 generator nameplate rating.

20 CHMN STAFFORD: Right. Right. So I mean,
21 just for the units to function to generate power to
22 export to the grid I guess that's kind of what the
23 relevant inquiry is.

24 So I guess how many systems are you
25 looking at? I don't have that list right in front of me?

1 MR. BEARCE: There are 30 listed --
2 Mr. Chair, there are 30 listed in the data request.

3 CHMN STAFFORD: All right. So there's 30
4 items, and they're all shared between at least two units.
5 And this -- you're talking, this is for the proposed
6 units, not the existing units, you're talking about the
7 shared equipment, right?

8 MR. WOOLSEY: Mr. Chair, my understanding,
9 based on the Company's response to the data request, is
10 that there are 16 items of equipment that the Company has
11 identified as being -- that would be shared between the
12 four new units. We're just talking about the new units
13 here. And that of those 12, I believe Mr. Bryner
14 responded earlier, 12 of those would be shared between
15 all four units and four would be shared between two units
16 each.

17 And so the question that I was asking
18 Mr. Bryner and Mr. Bearce here is just if you were to
19 remove all of that shared equipment and replace it with
20 nothing, would the four new units be able to operate and
21 deliver power to the grid.

22 CHMN STAFFORD: Certainly that's not how
23 it's supposed to, I would assume, because otherwise, we
24 wouldn't have included a bunch of superfluous equipment
25 in your -- at your plant because, otherwise, I don't

1 think the Commission would look too kindly on you
2 gold-plating a generating facility to put in rate base.

3 MR. WOOLSEY: I was hoping this would be an
4 easy yes-or-no question.

5 MR. BEARCE: So there is equipment listed
6 where you couldn't generate electricity in the context
7 that you provide. But it doesn't mean that if we
8 installed one unit that you would ever practically remove
9 it, because it wouldn't function. So when we shared them
10 amongst two, that's ease of construction and economies of
11 scale to make it affordable for our customers.

12 BY MR. WOOLSEY:

13 Q. Understood. Thank you.

14 Okay. Let's actually talk about that. So you
15 just mentioned that the Company has identified the reason
16 for sharing several items of equipment between units
17 would be because of economies of scale or construction
18 ease, correct?

19 A. (MR. BEARCE) I'm just going to hold onto this.

20 Yes.

21 Q. So setting aside those factors, setting aside
22 economies of scale, setting aside cost considerations,
23 would it be technically possible to build four generating
24 units with zero shared equipment and zero shared
25 facilities? I assume the answer is yes, correct?

1 A. (MR. BEARCE) Yes.

2 Q. Okay. But the Company is not proposing to do
3 that here, right?

4 A. (MR. BEARCE) No.

5 Q. And would it be possible to acquire property at
6 four different locations and build four unconnected
7 plants, each consisting of one 50-megawatt generating
8 unit, with all supporting equipment unique to each plant?
9 And again, I'm not asking here about costs, I'm just
10 asking would that be technically possible?

11 A. (MR. BEARCE) Technically that would be possible.

12 Q. Okay. But, again, that's not what the Company
13 is proposing to do, correct?

14 A. (MR. BEARCE) Correct.

15 Q. All four proposed new units would be housed at
16 the same power plant, right?

17 A. (MR. BEARCE) The generating station is the house
18 for these four proposed units.

19 Q. Okay. And we've discussed that the Company has
20 not yet completed the engineering process for the
21 expansion project, correct?

22 A. (MR. BEARCE) Correct.

23 Q. Is it -- and it's possible that the final
24 configuration of the proposed generators, turbines, and
25 supporting equipment might differ from the preliminary

1 schematics that the Company has shared, correct?

2 A. (MR. BEARCE) It's possible.

3 Q. Okay. So just to confirm a couple things that
4 were touched on during direct testimony, each Black
5 Mountain unit would include a turbine and a generator,
6 among other things, correct?

7 A. (MR. BRYNER) Yes.

8 Q. And generators and turbines are distinct
9 equipment that can have different nameplate ratings,
10 correct?

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

12 Q. And --

13 CHMN STAFFORD: Wait a second. I thought
14 only the generator had a nameplate rating, not the
15 turbine.

16 MR. BRYNER: So that's a good question,
17 Mr. Chair, so each piece of equipment has a nameplate
18 rating.

19 CHMN STAFFORD: And which -- so which did
20 you show us earlier, was that the generator or the
21 turbine --

22 MR. BRYNER: We showed you the generator
23 nameplate rating. There is a picture of the turbine
24 nameplate within one of our exhibits, but it does not
25 show the output of that turbine.

1 CHMN STAFFORD: Right. And what is the
2 term if it's not in megawatts or kVA, what is it?

3 MR. BRYNER: I'll put Mr. Bearce on that.

4 MR. BEARCE: Yeah, so the answer is it
5 depends. Some manufacturers put it on both. For a lot
6 of conventional steam turbine gensets, they'll have a
7 turbine, steam turbine rating, and they'll have a
8 generator rating. And then we'll identify throughout the
9 engineering process what your single limiting factor is,
10 whether fuel limited, air limited, whatever, right, and
11 you'll take the higher of the two ratings.

12 This one only has a generator name
13 placard -- nameplate mounted on it. And so the best
14 reference we have of what the combustion turbine package
15 as a whole is good for is in the OEM manual, which is one
16 of the exhibits. I forgot exactly who all illustrated
17 it, but it's as high as 51 under perfect conditions.
18 Similar to the same statement of the generator set for
19 the kVA rating, so when you do the conversion -- I'm
20 ballparking it without having it in front of me -- it's
21 about 51 megawatts, it's limiting, which is why in this
22 case you'll never see that generator rating metric
23 exceeded.

24 CHMN STAFFORD: Right. So the LM6000
25 generator/turbines we're talking about, they're sold as

1 the generator and the turbine together, and those are
2 rated on the generating portion, but not a separate one
3 for the turbine, correct?

4 MR. BEARCE: Yeah, they call it a package.

5 CHMN STAFFORD: Okay.

6 MR. BEARCE: And it's pretty explicit, it's
7 a probably put-you-to-sleep read, but it does list out
8 all of the auxiliaries and things that are included in
9 that. It's a pretty detailed high-level scope, and there
10 are options, but yes.

11 CHMN STAFFORD: Okay. And so just to make
12 sure I understood what we were talking about for these
13 particular units. All right.

14 Mr. Woolsey, please continue.

15 MR. WOOLSEY: I was about to ask questions
16 in a similar vein, and so I have, I guess, a follow-up to
17 that.

18 Q. So the Company has indicated that the nameplate
19 of the two generators -- excuse me -- the nameplate of
20 the two existing generators is 61 megawatts each,
21 correct?

22 A. (MR. BRYNER) That's correct.

23 Q. But the physical nameplates on the existing
24 turbines don't list any nameplate rating using any
25 metric, correct?

1 A. (MR. BRYNER) As we've just mentioned, that's
2 correct.

3 Q. Okay. And you said instead the name -- the
4 rating for the turbine, you said, was in the OEM manual?

5 A. (MR. BRYNER) Yeah, that's correct.

6 Q. Okay. And you -- and so the nameplate rating on
7 the turbine is 51 megawatts for the new proposed
8 turbines, correct?

9 A. (MR. BRYNER) I'd prefer Mr. Bearce answer that
10 one.

11 A. (MR. BEARCE) That was an approximation. We
12 haven't done detailed engineering on that.

13 Q. Okay. Is -- and that number -- so you
14 referenced the OEM manual, if we were to actually look in
15 the OEM manual would we be able to find a place in there
16 where it identifies that nameplate for the turbine as
17 51 megawatts, or is that a calculation that you're
18 deriving using the manual?

19 A. (MR. BEARCE) I'd have to refer to it. But I
20 believe it is listed in several ways. A lot of times
21 they'll call it "base horsepower," but I believe in the
22 OEM manual that was attached, it's in megawatts, already
23 converted.

24 Q. Okay. So if you have a generator and turbine
25 set which operate together, and the turbine has a lower

1 nameplate rating than the generator, the lowest rated
2 piece of equipment limits the output; is that correct?

3 A. (MR. BEARCE) Yes.

4 Q. So in order to know the nameplate capacity of an
5 entire unit, you need to know not only the nameplate
6 capacity of the generator, but also the nameplate of the
7 turbine, correct?

8 A. (MR. BEARCE) No.

9 Q. Why not?

10 A. I believe the statute calls out the generator
11 nameplate. And you can't exceed the electrical output of
12 a capable device.

13 Q. So just to be clear, I'm not asking about the
14 statute. I'm just asking about nameplate capacity as
15 that term is used in the industry. So, again, the
16 question is -- well, actually I'll move on to a slightly
17 different question.

18 CHMN STAFFORD: Mr. Woolsey, how much more
19 cross-examination do you have? Because we're coming up
20 on 90 minutes, and we're going to need to take a break
21 for the court reporter. Before we do, I just want to
22 kind of get a gauge of how much more cross you have.

23 MR. WOOLSEY: Yeah, I think if, depending
24 on how many more questions the Committee members have, I
25 think --

1 CHMN STAFFORD: Assuming zero.

2 MR. WOOLSEY: Assuming zero, I think I can
3 get through it in 10 to 15 minutes.

4 CHMN STAFFORD: All right. Well, it's been
5 an hour and a half since we came back, so let's take a
6 10- to 15-minute recess, give our court reporter a chance
7 to rest her fingers. And then we'll come back and we
8 will resume with your cross-examination.

9 We stand in recess.

10 (Recessed from 3:30 p.m. until 3:47 p.m.)

11 CHMN STAFFORD: All right.

12 Let's go back on the record. Mr. Woolsey.

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

14 Q. And, all right, so I wanted to move to a
15 different topic, and I'll try to go quickly here, because
16 I know it's getting late in the afternoon.

17 So, Mr. Bryner, would you please turn to Sierra
18 Club Exhibit SC-22. That's the September 22nd Black
19 Mountain air permit application.

20 A. (MR. BRYNER) Okay. I'm there.

21 Q. When UNS submitted this air permit application
22 to ADEQ for the existing Black Mountain plant, it
23 submitted a single permit application for the entire
24 plant, not separate applications for each unit, correct?

25 A. (MR. BRYNER) I guess I'll just -- again, I know

1 semantics of plant, we'll say for the station, the
2 generating station.

3 Q. Sure. For the generating station. But it was a
4 single application, correct?

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

6 Q. Okay. And when ADEQ issued the most recent air
7 permit for Black Mountain in 2023, it issued a single
8 permit for the entire generating station, correct?

9 A. (MR. BRYNER) Can you point me to that exhibit?

10 Q. Sure. So that's Exhibit Sierra Club SC-21.

11 A. (MR. BRYNER) Yes, that's correct.

12 Q. Okay. And that permit that was issued by ADEQ
13 refers to Black Mountain generating station as one plant,
14 correct? And I can provide a page --

15 A. (MR. BRYNER) Yeah, can you provide that to me?

16 Q. So on page 1, it says, "This Class 1 air quality
17 permit is issued to UNS Electric, Incorporated, the
18 permittee for the continued operation of a peaking power
19 plant identified as Black Mountain Generating Station."

20 Do you see that?

21 A. (MR. BRYNER) I see that.

22 Q. Okay. The Company plans to submit a single air
23 permit application to ADEQ for the four proposed new
24 Black Mountain units, correct?

25 A. (MR. BRYNER) So it's a -- trying to get the

1 wording right -- but we would modify our air permit to
2 include the four new generating units.

3 Q. And that modification would require you to
4 submit an application to ADEQ, correct?

5 A. (MR. BRYNER) Yes, that's correct.

6 Q. And that would be one application for the entire
7 project, correct?

8 A. (MR. BRYNER) One for the generating station,
9 correct.

10 Q. Okay. Are you familiar with UNS's annual
11 reporting about Black Mountain to the U.S. Energy
12 Information Administration? And specifically on form
13 EIA-860.

14 A. (MR. BRYNER) So can you point me to that
15 exhibit?

16 Q. Sure. So this is Sierra Club Exhibits SC-9 and
17 SC-10, which are copies of EIA-860 forms provided by the
18 Company in response to discovery. And let me know when
19 you have those in front of you.

20 A. (MR. BRYNER) I've got them here. Thank you.

21 Q. Okay. So the Company submits a single EIA-860
22 form, which covers both turbines at the existing Black
23 Mountain Generating Station, correct?

24 A. (MR. BRYNER) So that's correct.

25 Q. Okay. And on those EIA-860 forms, UNS uses a

1 single plant code for both existing units, correct?

2 A. (MR. BRYNER) Can you point me to where that's at
3 in the form?

4 Q. Sure. So, for example, in Sierra Club Exhibit
5 SC-10, which is the 2023 form, if you turn to page 3,
6 you'll see the plant -- there's a field there identified
7 as plant code, and then the number 56482.

8 A. (MR. BRYNER) Okay. I see that.

9 Q. Okay.

10 A. (MR. BRYNER) And yes, it appears there's one
11 plant code for the station.

12 Q. Okay. The Company plans to report all four of
13 the proposed new generating turbines on one form EIA-860,
14 correct?

15 A. (MR. BRYNER) That's the standard practice.

16 Q. Okay. Thanks.

17 Would you please turn to Sierra Club Exhibit
18 SC-26, which is an excerpt from UNS's 2023 IRP.

19 A. (MR. BRYNER) Okay. I'm there.

20 Q. And if you refer to page 5 of that exhibit,
21 which is Appendix B, page 4 from the IRP, and let me know
22 when you're there.

23 MS. GRABEL: What exhibit number?

24 MR. BRYNER: 26.

25 MEMBER GOLD: (Inaudible.)

1 THE REPORTER: I'm sorry, I can't hear.

2 MEMBER GOLD: Mr. Chairman?

3 CHMN STAFFORD: Yes, Member Gold.

4 MEMBER GOLD: Mine only goes up to page 4.

5 MR. WOOLSEY: I'm sorry, I'm referring, I

6 guess, if you look at the page numbers at the bottom

7 there this would be Appendix B page 4 of the UNS 2023

8 IRP.

9 MEMBER GOLD: Okay. Thank you.

10 CHMN STAFFORD: And this is the Black

11 Mountain Generating Station unit profiles?

12 MR. WOOLSEY: Correct.

13 MS. GRABEL: And, Mr. Chairman, I'd just

14 like to object that this is only a portion of the

15 Company's IRP, and that the entirety of the IRP is

16 contained in UNS Exhibit 17.

17 CHMN STAFFORD: Yes, it's been admitted.

18 So he's just referring to this --

19 MS. GRABEL: I know.

20 CHMN STAFFORD: -- particular page.

21 MR. WOOLSEY: And I'd be happy to refer to

22 the full IRP, either way, it would be the same -- the

23 page looks the same in both exhibits.

24 Q. And, Mr. Bryner, on that page, do you see where

25 it says, "The Black Mountain generating station is

1 located five miles south of Kingman, Arizona and provides
2 UNSE with 90 megawatts of combustion turbine capacity
3 from two units"?

4 A. (MR. BRYNER) Yes, I see that.

5 Q. Why does the Company refer to the combined or
6 cumulative capacity of the two Black Mountain units?

7 A. (MR. BRYNER) So if you'll notice, we're
8 referring to the Black Mountain Generating Station, so
9 the combined capacity of the station. We're not
10 referring to each unit specifically and that output
11 rating.

12 Q. But is the existing generating station two power
13 plants or is it one power plant?

14 MS. GRABEL: Objection; we're not using the
15 term "plant."

16 CHMN STAFFORD: It's -- okay, I guess
17 there's plant, as defined in the statute, then there's
18 plant in the vernacular. I think --

19 What is your question? Are you talking
20 about the generating station or the --

21 MR. WOOLSEY: So, Mr. Chairman, I wasn't
22 asking about the statute, specifically. I'm just asking
23 as the word "power plant" is generally understood in
24 common usage, is Black Mountain one power plant or two
25 power plants.

1 MS. GRABEL: Mr. Chairman, I'm going to
2 continue that objection. Because the word "plant" is the
3 legal issue here today. I think I'd prefer the use of
4 the word "generation station," which we agreed to and
5 which is how it's reflected in the IRP.

6 CHMN STAFFORD: Right. Because that's kind
7 of the crux of the issue is the statutory definition of
8 "plant" as opposed to the vernacular, so to avoid
9 confusion call it a generating station.

10 You said there's one code that you have an
11 EIS for that?

12 MR. BRYNER: That's correct.

13 CHMN STAFFORD: Will it be two codes after
14 the addition or still one code?

15 MR. BRYNER: I don't know. I'm seeing
16 Mr. Bearce pointed out one, and so I would agree there
17 would be one code for the generating station.

18 CHMN STAFFORD: Okay. Just call it a
19 generating station to avoid any confusion with the word
20 "plant," please.

21 MR. WOOLSEY: Fair enough.

22 Q. So CEC review before the Siting Committee can
23 encompass review of certain impact categories that may
24 not be addressed by the permitting processes of other
25 state and federal agencies; is that correct?

1 A. (MR. BRYNER) That's not correct. I believe we
2 had a discussion on that earlier and determined that the
3 issues at hand in the CEC are covered by other
4 permits -- well, let me maybe correct my statement just a
5 little bit. We did discuss that there's a much more
6 robust public outreach process expected, but even that is
7 not really in the statute, and that's more set by
8 precedent.

9 Q. Well, so I understand that there's some overlap
10 with other permits, but I'm asking about areas of the CEC
11 review process that might not be covered by other permit
12 processes.

13 So is your answer that you don't think there are
14 any areas that would not be covered by other permit
15 processes?

16 A. (MR. BRYNER) So at the moment, and again, I'll
17 refer to my previous question [sic], I don't want to
18 contradict myself, but I cannot think of anything
19 specifically in the exhibits to the CEC application that
20 are unique to the CEC application that are not covered in
21 something else, but that's all dependent on the site.

22 Q. Well, so here's an example, maybe. Let's say
23 that there's a site in -- in an unincorporated area where
24 there is no local regulation governing noise or views,
25 wouldn't the CEC process be the only place where noise or

1 views would be evaluated if there's not a local
2 regulation on noise or views?

3 A. (MR. BRYNER) I'm not sure on that. I don't have
4 an answer for you right now. I would need to research it
5 and see the specific site. There's just too many -- to
6 many different things that could trigger it even beyond
7 local permitting.

8 Q. Okay. Generally speaking, would you agree that
9 a 100-megawatt gas-fired peaking plant is likely to have
10 greater impacts than a 50-megawatt gas-fired peaking
11 plant, if all other variables are equal?

12 A. (MR. BRYNER) I don't believe I would agree with
13 that.

14 Q. You wouldn't agree that a larger plant would
15 generally tend to have larger impacts?

16 A. (MR. BRYNER) I think it depends on a number of
17 factors. And one of those would be how often the plant
18 is running.

19 Q. Sure. So assume that the capacity factor would
20 be the same for both the 100-megawatt and the 50-megawatt
21 plant, same capacity factor?

22 A. (MR. BRYNER) I think, again, there's just too
23 many variables in there. I can't give you a straight
24 answer.

25 Q. Fair enough.

1 Would you please turn to Sierra Club Exhibit
2 SC-12. And let me know when you're there, please.

3 A. (MR. BRYNER) Okay. I'm there.

4 Q. So the Company affirmed in this discovery
5 response that it has never acquired or installed a
6 simple-cycle gas-fired generating turbine with an
7 individual nameplate capacity of more than 100 megawatts
8 at any of its facilities.

9 Do you see that?

10 A. (MR. BRYNER) I see that.

11 Q. Okay. And, to your knowledge, does the Company
12 have any plans to install a simple-cycle gas-fired
13 generating turbine with an individual nameplate capacity
14 of more than 100 megawatts at any of its facilities in
15 the future?

16 A. (MR. BRYNER) So when you say plans --

17 MS. GRABEL: Mr. Chairman, that's actually
18 confidential information. The Company's future resource
19 plans are not something I think that we can discuss. He
20 could answer potentially hypothetically, but --

21 CHMN STAFFORD: Well, you have the IRP so
22 doesn't that say what you're planning to do? It said --

23 MS. GRABEL: Yeah, I'll let Mr. Bearce --

24 CHMN STAFFORD: -- I seem to recall you're
25 going to add 200 megawatts of gas, and that's what we're

1 talking about today, correct?

2 MR. BEARCE: So, Mr. Chair, respectfully,
3 the IRP is a signal of system needs, but that comes under
4 no assumption of who will be the successful bidder to
5 build said requirements. So while we intend for this
6 diligence process we're going through now to put us in
7 the most competitive and highest level of certainty to
8 bid into the All-Source RFP, it's still subject to that
9 bid process through a third-party monitor.

10 So while we would love to self-perform,
11 we've got to be the most financially responsible out of
12 the bunch to be picked by the third-party monitor
13 process. So our interest certainly is to self-perform,
14 but it doesn't always make sense, and so I respectfully
15 say, we would love to do it but there are other
16 procedures that we have to adhere to and compete for that
17 work.

18 So what it says in the IRP is a system
19 need, not necessarily that we are the winner, and we
20 haven't bid for this -- this project. So we're going
21 through the diligence phase right now. If that
22 clarifies --

23 CHMN STAFFORD: Oh, okay. So the
24 200 megawatts you identified as needing to add to your
25 system, UniSource's system, it will be this plant, but

1 you haven't decided whether UniSource will build this
2 plant and own it or it will be built by a third party
3 that you will either have a PPA for or that you'll
4 actually own it?

5 MR. BEARCE: Yeah, all of that is subject
6 to the All-Source RFP, and us choosing to bid into it,
7 and ultimately for our name to be on it, we would need to
8 be the successful bidder for that. So we send that to
9 market, that's the desire for the technology that we've
10 decided is the best. And this is the diligence phase to
11 find out if we're in the best position to fulfill that
12 system need.

13 CHMN STAFFORD: Well, is the RFP for
14 200 megawatts of gas or for four 50-megawatt peaking
15 units?

16 MR. BEARCE: So generally speaking, the
17 All-Source RFP is all sources, we have signaled gas
18 because that's what the resource planning model shows,
19 but if somebody's got a better solution, that's what all
20 the performance requirements, system modeling, and
21 competitive bidders can give the alternatives to that.
22 And so that's why they consider it an all-source, because
23 just because maybe the readily available information
24 crops up as the solution, other bidders can compete with
25 different technologies if they see it fits the need.

1 CHMN STAFFORD: Okay.

2 All right. Please proceed, Mr. Woolsey.

3 MR. WOOLSEY: And I have just four or five
4 more questions here. I'm almost finished.

5 Q. So earlier there was some mention of TEP's Sundt
6 Generating Station. You're familiar with the RICE units
7 there, correct?

8 A. (MR. BRYNER) I am.

9 Q. And there's 10 RICE units with individual
10 capacities of under 100 megawatts for each unit, but
11 collectively the capacity of the RICE units is about
12 200 megawatts, correct?

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

14 Q. And TEP applied for and obtained a CEC from the
15 Commission for those units, correct?

16 A. (MR. BRYNER) Correct.

17 Q. But the Company -- or, excuse me, not the
18 Company, but no disclaimer of jurisdiction and no CEC was
19 ever obtained for the existing Black Mountain Generating
20 Station, correct?

21 A. (MR. BRYNER) So I think you're kind of bringing
22 up a couple different points there. You were talking
23 about RICE and then you jumped over to Black Mountain.
24 Could you just break that up?

25 Q. Sure. So my last question there was regarding

1 the existing Black Mountain Generating Station. No
2 disclaimer of jurisdiction and no CEC was ever obtained
3 for Black Mountain, correct?

4 A. (MR. BRYNER) That's correct.

5 Q. Okay. To your knowledge, prior to the Company's
6 application in this case, has any utility asked the
7 Committee or Commission for a disclaimer of jurisdiction
8 for a generating project with a total capacity over
9 100 megawatts?

10 A. (MR. BRYNER) To my knowledge, no.

11 MR. WOOLSEY: And those are all the
12 questions I have. Thank you.

13 CHMN STAFFORD: Thank you.

14 All right. Next up for cross is ArISEIA.

15

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

17 BY MS. JOHNSON:

18 Q. Good afternoon. My questions will just be for
19 the panel generally, so whoever would be more appropriate
20 to answer, please feel free.

21 I'd like to go back to some of the comments we
22 made earlier before getting into my preset list of
23 questions. Do you recall this morning disagreeing with
24 my characterization of the LM6000s as turbines?

25 A. (MR. BRYNER) Yes.

1 Q. Who is the manufacturer of the LM6000?

2 A. (MR. BRYNER) They're GE units.

3 Q. Do you know what GE's full name for the LM6000
4 is?

5 A. (MR. BRYNER) I do not.

6 Q. Subject to check, would you be willing to agree
7 that according to GE's website it is called "LM6000
8 aeroderivative gas turbine"?

9 CHMN STAFFORD: It appears he's checking
10 now.

11 MR. BRYNER: So on the cover of the
12 specification for the generator it says "LM6000 gas
13 turbine generator set product specification."

14 BY MS. JOHNSON:

15 Q. Okay. That's a little different than my
16 question about the website, but it also calls it a
17 turbine, so we can move on.

18 Let's go back to Footnote 1 of UNSE's exhibits,
19 the application, I believe, is UNSE-1. Footnote 1 on
20 ES-1 reads, "UNSE's 2023 Integrated Resource Plan calls
21 for the addition of 200 megawatts of natural gas
22 turbines."

23 Do you see that?

24 A. (MR. BRYNER) Sorry, we're having some technical
25 issues.

1 Q. I believe that's analog, actually?

2 A. (MR. BRYNER) Analog issues, okay.

3 Yes, I see that.

4 Q. Okay. Thank you.

5 Mr. Bearce earlier had an analogy to airplanes.

6 Is LM6000 also used as an airplane turbine?

7 A. (MR. BEARCE) LM6000s are aeroderivative, which
8 is similar technology used for aircraft.

9 Q. Okay. Is it fair to characterize a LM6000 as a
10 jet engine?

11 A. (MR. BEARCE) It's a prime mover that functions
12 the same.

13 Q. Would you agree that once a turbine or jet
14 engine is attached to an airplane, it is indeed part of
15 the airplane?

16 A. (MR. BEARCE) I'm not connecting the dots how a
17 power plant relates to a Boeing 737.

18 Q. I'm just asking you about airplanes. You
19 brought up airplanes, so we're talking about airplanes.

20 A. (MR. BEARCE) I fly rotary engines.

21 Q. So you don't have a position on whether or not a
22 turbine is part of an airplane or not?

23 A. (MR. BEARCE) Depends on the airplane. But a jet
24 engine is what the thrust mechanism is for a large
25 ATP-driven aircraft.

1 Q. Could an airplane fly without it?

2 A. (MR. BEARCE) With a different position, yes.

3 Q. Without a turbine?

4 A. (MR. BEARCE) There are glider airports that
5 don't have an engine at all.

6 Q. Okay. We're talking about, I think, jet
7 airplanes is what you brought up.

8 Do jet turbines have their own throttle
9 controls, even though they are part of an airplane?

10 A. (MR. BEARCE) Are you referencing a multi-engine
11 aircraft?

12 Q. Whatever aircraft you want that flies passengers
13 out of Sky Harbor would be fine with me.

14 A. (MR. BEARCE) So I am not an expert on jet
15 engines.

16 MEMBER GOLD: Mr. Chairman?

17 CHMN STAFFORD: Yes, Member Gold.

18 MEMBER GOLD: I would like to read
19 something into the record, based on this questioning.
20 "What planes use LM6000?" "GE LM6000 (CF6-80C2) gas
21 turbine, part one, the GE, General Electric, LM6000, is a
22 turbo shaft aeroderivative gas turbine engine. The
23 LM6000 is derived from the CF6-80C2 aircraft turbo fan
24 which is used in the Boeing 747-400, McDonnell Douglas
25 MD-11, Airbus A300, and Airbus A310-sized airplanes."

1 And why are we asking this question?

2 MS. JOHNSON: That is a great question.

3 Q. So let's turn back to the Boeing 747, then. Is
4 a jet engine part of an airplane if we're talking about
5 Boeing 747?

6 MS. GRABEL: Mr. Chairman, I think this is
7 a little out of control. We're not talking about
8 airplanes in this proceeding, we're talking about
9 generating units at generating stations. I think we're
10 kind of wasting our time.

11 CHMN STAFFORD: It's a simple yes-or-no
12 question. Is the jet engines -- is a jet -- is a jet
13 engine part of a jet, I guess?

14 MR. BEARCE: Yes.

15 BY MS. JOHNSON:

16 Q. And would you agree that the FAA can regulate an
17 airplane once the jet engine is attached to it?

18 A. (MR. BEARCE) The FAA regulates air traffic,
19 licensing, et cetera, so you're asking me to speculate.
20 My speculation is yes.

21 Q. Okay. Let's turn to UNSE-14.

22 A. (MR. BEARCE) I'm there.

23 Q. Would you agree that the general audience of an
24 op-ed is the public?

25 A. (MR. BEARCE) Yes.

1 Q. Would you agree that the public is not made up
2 entirely of attorneys?

3 A. (MR. BEARCE) Yes, I hope so.

4 Q. Is it your position that the words "disclaim"
5 and "waive" are not synonymous in the context of the
6 op-ed?

7 CHMN STAFFORD: That's kind of a legal
8 interpretation question. I don't think he's qualified to
9 answer that.

10 MR. BEARCE: That's where I was going.

11 MS. JOHNSON: That's fine, Chairman. My
12 point is that they tried to undermine my credibility
13 because I used the word "disclaim" instead of "waive,"
14 when speaking to the general public. And so I'm asking
15 if their position is that those words mean something
16 different.

17 MS. GRABEL: Mr. Chairman, I'll take that
18 question since I do believe it's legal. The words
19 "disclaim" and "waive" are not synonymous. Disclaim
20 suggests that the Committee -- is suggesting that it does
21 not ever have jurisdiction over a matter, whereas "waive"
22 would mean you have jurisdiction, but are opting not to
23 use it. They're not synonyms.

24 CHMN STAFFORD: Thank you. That's a good
25 distinction between the two. Thank you.

1 MS. JOHNSON: All right. I'll move on.

2 Q. There have been questions from the Committee
3 about the different types of plants. We've been using a
4 lot of different terminology, "open," "single," "simple,"
5 et cetera.

6 Can you tell us in as lay of terms as possible
7 what the difference is between a CC and a CT?

8 A. (MR. BEARCE) Would you please spell out your
9 definition of CC and CT per the acronym?

10 Q. The acronym is combustion cycle versus
11 combustion turbine.

12 CHMN STAFFORD: I thought it was combined
13 cycle --

14 MS. JOHNSON: Combined cycle, yeah.

15 CHMN STAFFORD: Wait. Combined cycle and
16 combustion turbine.

17 MR. BEARCE: That's why I asked for
18 clarification, because I would have misanswered the
19 question. So you want combined cycle and combustion
20 turbine?

21 BY MS. JOHNSON:

22 Q. I'd like you to explain to the Committee kind of
23 broadly what the difference is.

24 A. (MR. BEARCE) Okay. So a combined cycle is two
25 or more processes tied together. So when you think of it

1 as you've got your combustion turbine, which normally
2 goes out an exhaust stack, right, your exhaust just goes
3 out a flue.

4 On a combined cycle you have what's called a
5 heat recovery steam generator, also known as a boiler,
6 where that hot gas passes through, boils water, produces
7 steam, and that steam goes through a steam turbine.
8 Breaking down being the second part of the combined
9 cycle.

10 They don't have to be run that way. You can run
11 just the gas turbine or you can run them both together.
12 Simple cycle lacks that heat recovery steam generator
13 also known as a HRSG.

14 Q. And that CT tends to have smaller generator
15 sets, I think is the word we agreed on, is that correct,
16 than a CC?

17 A. (MR. BEARCE) I would say that a CT that goes on
18 a large combined-cycle plant can be also installed and
19 has been installed independent, so they can be the same
20 size. I wouldn't say that's an accurate statement.

21 Q. Would you say that generally or at least
22 occasionally CTs are also sometimes called "peakers"?

23 A. (MR. BEARCE) That's correct.

24 Q. Okay. Is UNSE currently planning to build any
25 new CCs?

1 A. (MR. BEARCE) That's confidential information
2 about our business plans are. The only time we could
3 build that show prudent investment and comply with the
4 law is to compete in the All-Source RFP and win out in
5 that instance.

6 Q. And has a CC won an All-Source RFP in the last
7 five years?

8 A. (MR. BEARCE) Not that I'm aware of.

9 Q. Are you aware of any other utilities in the
10 state of Arizona currently building CCs?

11 A. (MR. BEARCE) That is confidential information,
12 that's strategic of what other knowledge I have of what
13 other utilities are performing. And it's not at my
14 liberty to speak on their business.

15 Q. You can just rely on public information. Are
16 you aware of any public information that indicates other
17 utilities in Arizona are planning to build CCs?

18 A. (MR. BEARCE) Not that I'm aware of.

19 Q. Thank you.

20 Are peaker plants ever built with an odd number
21 of generating sets?

22 A. (MR. BEARCE) Yes.

23 Q. They are. Okay.

24 When you were asked about UNSE-14, you disagreed
25 with the statement about what you would or wouldn't do,

1 and there was a question about whether or not if the
2 Committee disclaimed jurisdiction you would still go
3 through public processes and whatnot. What would be the
4 regulatory mechanism with which to hold you to such a
5 promise?

6 A. (MR. BRYNER) I can't answer that.

7 Q. Because there is not one, correct?

8 A. (MR. BRYNER) So I mentioned there's other
9 permits, other things that we would need to do. But as
10 far as, you know, my statement about, you know, what we
11 would do as a company for outreach to engage the public,
12 different things like that, beyond what's required in
13 things like the air permit, I would say, you know, it's
14 kind of my word there.

15 Q. Okay. And can we turn to the last slide of your
16 PowerPoint presentation. That is UNSE-4, please.

17 And you have ARS 40-360.09 on that slide; is
18 that correct?

19 A. (MR. BRYNER) That's correct. Well, a piece of
20 it.

21 Q. The relevant piece I would argue, and I assume
22 that you would as well, which is why it's there?

23 A. (MR. BRYNER) Yes.

24 Q. Could you read that for the Committee, please?

25 A. (MR. BRYNER) ARS 40-360, subpart 9, "Plant means

1 each separate thermal electric, nuclear, or hydroelectric
2 generating unit with a nameplate rating of 100 megawatts
3 or more."

4 Q. And the statute, as you have also mentioned,
5 does not reference solar, photovoltaic, or wind; is that
6 correct?

7 A. (MR. BRYNER) That is correct.

8 Q. And is that why we are not talking about those
9 technologies today?

10 A. (MR. BRYNER) So we're not talking about those
11 today, because we're talking about the combustion
12 turbines, which are at hand, because they are thermal
13 electric generating units.

14 Q. That's right. And are we at the legislature
15 today?

16 A. (MR. BRYNER) I don't believe so.

17 Q. Thank you. All right. Let's go back to UNSE-1,
18 please. We're looking at page ES-2, and unfortunately,
19 there are not line numbers, so we're going to have to
20 just do our best.

21 UNIDENTIFIED SPEAKER: What exhibit?

22 MS. JOHNSON: It's UNSE-1, the application.

23 CHMN STAFFORD: Page ES-2?

24 MS. JOHNSON: Correct.

25 Q. Are you there?

1 A. (MR. BRYNER) I am there.

2 Q. Okay. In the first full paragraph the
3 application reads, "The existing natural gas units at
4 Black Mountain were constructed by their previous owner
5 without a CEC, because they, too, each have a nameplate
6 rating under 100 megawatts."

7 Do you see that?

8 A. (MR. BRYNER) I see that.

9 Q. Okay. Can you please turn to page A-1 of the
10 same application, which if you're looking at the PDF is
11 page 32.

12 A. (MR. BRYNER) So I'm there.

13 Q. Okay. We're looking at the third full paragraph
14 under A-1.1 facility description. It says, "The BMGS
15 major plant components will consist of two GE LM6000 PC
16 SPRINT simple-cycle natural gas-fired combustion turbines
17 rated at 40 megawatts each."

18 Do you see that?

19 A. (MR. BRYNER) Yes.

20 Q. Okay. Now, let's turn to ArISEIA-2, please.
21 Let me know when you're there, please.

22 MEMBER GOLD: Mr. Chairman?

23 CHMN STAFFORD: Yes, Member Gold.

24 MEMBER GOLD: There are no tabs. So what
25 page are we looking at?

1 MS. JOHNSON: We don't have Bates
2 numbering, sir.

3 CHMN STAFFORD: Yes, if you look to --
4 there's the cover page for the Exhibit 2.

5 MEMBER GOLD: I see it.

6 CHMN STAFFORD: Just they're separated by
7 pages, they just don't have the tab that makes it easier
8 to find.

9 MS. JOHNSON: It's page 7 of the PDF, so it
10 should be around page 7 within the binder as well.

11 MR. BRYNER: And I'm there.

12 BY MS. JOHNSON:

13 Q. Okay. And ArISEIA-2 is UNSE's Supplemental
14 Response to ArISEIA's First Data Requests; is that
15 correct?

16 A. (MR. BRYNER) That's correct.

17 Q. Okay. And I asked about the discrepancy between
18 48 megawatts and the 61 megawatts, and in your response
19 to 1.11, which is the last full paragraph on -- under
20 ArISEIA 1.1, you say, "UNSE did not draft the document
21 contained on page A-1 of the application, and does not
22 know what the author meant by the term 'rating.'"

23 Do you see that?

24 A. (MR. BRYNER) I do see that.

25 Q. Are you saying that while you don't know who

1 drafted A-1 or what they meant, you did have specific
2 knowledge of their statutory interpretation of ARS 40-360
3 when the plant was built?

4 A. (MR. BRYNER) You need to let me turn back to
5 A-1 to let me take a look.

6 Q. Okay.

7 MS. GRABEL: Mr. Chairman, Ms. Johnson,
8 would you mind repeating that question? I want to make
9 sure I caught it.

10 MS. JOHNSON: Sure. Would you like me to
11 go back to the broader overall question or just the sub
12 question for 1.11?

13 MS. GRABEL: Subquestion for is 1.11.

14 BY MS. JOHNSON:

15 Q. 1.11 states, "UNSE did not draft the document
16 contained on page 1 of the application and does not know
17 what the author meant by the term 'rating.'"

18 And the question is, are you saying while you
19 don't know who drafted A-1 or what they meant, you did
20 have specific knowledge as to their statutory
21 interpretation of ARS 40-360 when the plant was built?

22 MS. GRABEL: And I guess I'm going to
23 object to that question as conflating two different
24 issues, one is what the author meant in A-1 and one is
25 the definition of nameplate rating and those two are not

1 synonymous, as was responded to in 1.11.

2 CHMN STAFFORD: And just can you answer
3 each question individually, then?

4 MR. BRYNER: Can you ask them one at a
5 time?

6 BY MS. JOHNSON:

7 Q. Sure. Let's go back, so I apologize to the
8 Committee because we're jumping around between exhibits.
9 Page 2 of your application reads, "The existing natural
10 gas units at Black Mountain were constructed by their
11 previous owner without a CEC, because they, too, each
12 have a nameplate rating under 100 megawatts." But then
13 the original documents relating to the plant say that
14 they're 48 megawatts.

15 And then you tell me in my data response that
16 you don't know who drafted it or why they say that, so my
17 question is if you don't know who drafted A-1, how do you
18 know that they purposely didn't get a CEC, because they
19 understood the statute in the same way that you do?

20 A. (MR. BRYNER) So in looking at A-1, I can see who
21 authored it. It was from Tierra Right of Way Services,
22 it appears. But no, I can't -- so it would have been a
23 contractor who worked on this, but I can't say for sure
24 what was in their mind on this or what they were
25 thinking.

1 Q. So is it then inaccurate what you've stated on
2 page 2, which says that they did not obtain a CEC because
3 the nameplate rating of the total unit or the individual
4 units was below 100 megawatts?

5 A. (MR. BRYNER) So I believe that on page 2 it
6 doesn't say the total output of the generating station,
7 it's talking about each individual unit.

8 Q. Well, no, let's back up. I thought that your
9 position was that the total doesn't matter, it's that the
10 individual units are under 100 megawatts; is that not
11 your position?

12 A. (MR. BRYNER) That is our position.

13 Q. Okay. And so whether or not the units were 45
14 or 48 or 61, would you agree that that's below
15 100 megawatts?

16 A. (MR. BRYNER) Yes, I would agree with that.

17 Q. Okay. And are you not arguing, then, on page
18 ES-2 that the fact that the underlying plant did not have
19 a CEC is not then precedence for the Commission to not
20 need a CEC in this case?

21 A. (MR. BRYNER) So what we're saying on ES-2 is in
22 reference to not the total output of the generating
23 station, but that each individual generating unit is
24 under 100 megawatts, so therefore, no CEC was needed.

25 Q. Right. And you say that the previous owner

1 constructed it and didn't get a CEC, because they had the
2 same interpretation as you?

3 A. (MR. BRYNER) That's correct.

4 Q. And I'm asking how you could possibly know that?

5 MS. HILL: Mr. Chairman?

6 CHMN STAFFORD: It seems like that would be
7 an opinion, I mean, that is one possible explanation.
8 Another one would be that if they just relied on the net
9 output, then it's -- to combine units are less than
10 100 megawatts. That's another reason why they didn't get
11 a CEC. Obviously, they -- whoever it was, and they're
12 not that person, that entity is not here before the
13 Committee today to say what their interpretation of the
14 statute was, but they made a decision to build without
15 requesting a CEC and without requesting a waiver. We
16 know that.

17 Is that part of the stipulated facts, I
18 believe?

19 MS. GRABEL: It is, your Honor.

20 CHMN STAFFORD: Right, so we can't possibly
21 know what whether they believed it was because what the
22 applicant has alleged that the interpretation is that
23 each unit must be below 100 megawatts or above to require
24 a CEC or the total combined if they were relying on the
25 45 to 48, because that would put the entire plant under

1 100 megawatts.

2 So either of those could be the reason for
3 them to not request the CEC or a disclaimer, but we
4 can't -- the witness can't possibly know what was in
5 their head, I mean, it's just --

6 MS. JOHNSON: Well, that is indeed the
7 point, Chairman. Which is why it's not -- it is
8 incorrect to assume that that is the reason why the
9 application and to argue its precedence.

10 MS. HILL: Mr. Chairman, may I --

11 CHMN STAFFORD: Yes.

12 MS. HILL: I'm sorry --

13 CHMN STAFFORD: I don't see your nametag.

14 MS. HILL: Yeah, Megan Hill.

15 CHMN STAFFORD: Ms. Hill. We have a Member
16 Hill and a --

17 MS. HILL: I know. And then a Meghan
18 Grabel and, right, it's a lot of us. So, I'm sorry, I
19 just want to step in. I just want to clarify the
20 Company's position here.

21 We're not arguing -- this is really asking
22 for clarification. And to suggest that we believe that
23 there is -- I mean, I think we're all pretty clear on the
24 Commission -- past Commission Decisions are not
25 necessarily precedential, and so I don't want to mistake

1 our position for anything other than we're coming in and
2 asking for clarification. And so I think characterizing
3 anything that we cite is precedent in terms of the way we
4 typically think of that in the law would not be accurate
5 about what we're doing.

6 CHMN STAFFORD: Exactly. Commission
7 Decisions aren't precedential.

8 MS. HILL: Correct. I just wanted to
9 clarify that before we got into more questioning about
10 precedence, and what -- the, you know, things happened in
11 the past, we're willing to admit things happened or
12 didn't happen in the past, but we're here on that purely
13 legal issue, and we're asking the Committee for
14 clarification and the Commission.

15 CHMN STAFFORD: Right, in that vein, I'd
16 like to ask either the Megans a question.

17 In the application on this page, ES-2, you
18 cite three different Decisions by the Commission. I
19 believe they're all admitted as exhibits, but I'll take
20 official notice of them either way, so they're part of
21 the record.

22 You have Decision Number 70186, Decision
23 Number 71914, and Decision 72213. They all relate to the
24 existing Black Mountain Generating Station. I looked at
25 those Decisions, and I don't see the nameplate capacity

1 anywhere in any of those Decisions. In the 70186, on
2 page 2, they refer to the generating station is
3 90 megawatts. In the 91 -- 71914, on page 6, they refer
4 to it as 90 megawatts total capacity, and then in
5 Decision 72213, they don't mention the size of the
6 generating station at all.

7 So I think that whether or not the
8 predecessor who built the plant, why they didn't get a
9 CEC or request a disclaimer of jurisdiction, we'll --
10 we're not going to be able to determine that here today.
11 So -- but the fact is that I don't, from what I'm seeing,
12 it's not clear that the Commission was ever aware that
13 the nameplate capacity on this plant is above
14 100 megawatts.

15 MS. GRABEL: So, Mr. Chair- -- want me to
16 take it?

17 MS. HILL: Yeah, you can go ahead and if I
18 need to follow up, I will.

19 MS. GRABEL: So, Mr. Chairman, I would
20 concur with you that the Decisions themselves do not
21 state the nameplate capacity of the units. It would be
22 odd for them to, because that probably wasn't an issue in
23 any of the proceedings. What they're talking about is
24 the actual operating capacity, which is what you're
25 referring to. I would note in the proceeding in which

1 the units were added to rate base, Staff's engineers,
2 they actually hired a third-party engineer who went out
3 and visited the sites -- I read the engineering report --
4 they were all over these units.

5 And so I would be surprised if they didn't
6 know what the nameplate capacity was. That said, it
7 would be unusual for them to reference it in the
8 documents, because it was irrelevant to the
9 determinations they were making at the time. That said,
10 we're not resting our laurels on saying because you did
11 it before, you have to do it now.

12 We're making our case legally, just as
13 Megan told you, because we want to know the answer to the
14 legal question. We've seen it done both ways. We want a
15 determination.

16 CHMN STAFFORD: Are you referring to the
17 utilities report on Black Mountain Generating Station
18 that was docketed on December 21st of 2010 --

19 MS. GRABEL: I am.

20 CHMN STAFFORD: -- in compliance with
21 Decision Number 71914?

22 MS. GRABEL: I am, Mr. Chairman.

23 CHMN STAFFORD: I looked at that and I
24 didn't find any mention of the nameplate capacity in that
25 either. They referred to it as two 45-megawatt units,

1 each capable of sustained operation of 48 megawatts. And
2 they refer to in another page as the nominal 45-megawatt
3 units. I don't see any mention of the nameplate capacity
4 in that document anywhere.

5 MS. GRABEL: Agreed. And I think the
6 reason is that it wasn't an issue in that proceeding.
7 But if you -- I mean, if you've read it as clearly as you
8 have, you'll know that they did an exhaustive tour, they
9 did an exhaustive analysis of the operation of the units,
10 they noted that one went out of service and relied on
11 Unit 2, in order to, you now, basically fulfill the
12 capacity needs at the time. And so they did a very
13 exhaustive analysis of the units. But it's not in there,
14 because it wasn't at issue.

15 CHMN STAFFORD: Right. So let's -- that's
16 why I think it's -- I think Ms. Johnson's point is that
17 it could have been, well, no one -- the whole -- the
18 total output at the plant was under 100 megawatts so no
19 one though to dig any deeper to look at the nameplate
20 capacity, because it's not really relevant for the
21 purpose of rate basing it. The purpose was is it used
22 and useful, was it a prudent investment. That's what you
23 look at, it's a totally different thing, so --

24 MS. GRABEL: I agree with all of that.
25 That's why we're here.

1 CHMN STAFFORD: Okay, good.

2 Further questions, Ms. Johnson?

3 MS. JOHNSON: I do, Chairman, but I believe
4 that Ms. Hill had something she was going to add.

5 MS. HILL: No, your Honor -- no. I'm
6 sorry, 21 years of other litigation.

7 No, Mr. Chairman, and Ms. Johnson,
8 Committee Members, Ms. Grabel answered.

9 CHMN STAFFORD: All right. Thank you.
10 Ms. Johnson, please continue.

11 MS. JOHNSON: I will continue, and I will
12 move on from that point. I would like to just point out
13 that the Company specifically has used the word
14 "precedent" at least twice today in response to
15 Commissioner Tovar, they also say that the fact that the
16 underlying plants did not get a CEC is precedent, which I
17 believe to be incorrect.

18 CHMN STAFFORD: All right. I think we can
19 all agree that "precedent" in the legal term is not what
20 is being talked about. It's just that the fact that it
21 has happened before. That this plant was built without
22 either a CEC or a disclaimer of jurisdiction from the
23 Committee or the Commission.

24 So all right. Let's -- moving on.

25 MS. JOHNSON: Moving on.

1 Q. Earlier, Ms. Hill noted that, actually,
2 UniSource-affiliated company did build the plant, and so
3 why don't we know why they didn't obtain a CEC?

4 CHMN STAFFORD: Ms. Hill?

5 MS. HILL: So thank you.

6 So a couple of things. First, to the
7 extent that there is any institutional memory about that
8 and to the extent that that would have been part of a
9 legal discussion, that's privileged and confidential and
10 we decline to answer that question.

11 CHMN STAFFORD: Well, it was a separate
12 entity, correct?

13 MS. HILL: That is correct, Mr. Chairman.
14 There are some common administrative functions between
15 the two -- some common officers between the two; however,
16 they are two separate entities and there is a pretty firm
17 wall, but to pretend that there aren't a common officer
18 here and there would be incorrect.

19 CHMN STAFFORD: Does the ent- -- does
20 the -- what's the name of the entity that built it?

21 MS. HILL: UniSource Energy Development.

22 CHMN STAFFORD: Okay. Does that entity
23 still exist?

24 MS. HILL: It does.

25 CHMN STAFFORD: And what function does it

1 play for the applicant's entity?

2 MS. HILL: At the moment, none that I'm
3 aware of.

4 CHMN STAFFORD: Would it be involved in the
5 construction of the proposed addition to Black Mountain?

6 MS. HILL: If it chose to bid into it and
7 they were the winner of the All-Source RFP, then yes,
8 they could be. Just like any other third party could be.

9 CHMN STAFFORD: All right. And is it -- I
10 think that's enough.

11 All right. Let's -- Ms. Johnson, back to
12 you.

13 MS. JOHNSON: Thank you.

14 Q. How long has UNSE owned Black Mountain
15 Generating Station?

16 A. (MR. BRYNER) So we purchased the units in 2007.

17 Q. Okay. And how long have you known that you've
18 been operating it without a CEC?

19 A. (MR. BRYNER) So that's a -- I'll answer the
20 question. So we've known from the beginning that there
21 was no CEC, but also we were never under the impression
22 that we were operating it in any manner that was illicit.

23 Q. How long have you known that you've been
24 operating it without a CEC and without a disclaimer of
25 jurisdiction?

1 A. (MR. BRYNER) Again, we went into it knowing all
2 these things.

3 Q. Okay. In your opening comments today, you
4 mentioned the Commission's IRP rules, and the definition
5 of "generating unit." Is it your position that the
6 Commission's IRP rules supersede state statute?

7 A. (MR. BRYNER) Can you restate?

8 Q. Is it your position that the Commission's IRP
9 rules supersede state statute?

10 MS. GRABEL: That calls --

11 CHMN STAFFORD: That's more of a question
12 for Ms. Grabel than for Mr. Bryner, because as he stated
13 several times throughout the proceeding, he is not a
14 lawyer.

15 Ms. Grabel, please.

16 MS. GRABEL: No, we do not believe that the
17 Arizona Corporation Commission's rules supersede state
18 statute, however, they can help interpret state statute,
19 to the extent it is necessary.

20 BY MS. JOHNSON:

21 Q. And were the Corporation Commission's IRP rules
22 adopted before or after or simultaneous with the Line
23 Siting statutes in 1971?

24 A. (MR. BRYNER) I don't know that.

25 CHMN STAFFORD: This is -- this is all,

1 like, legal argument, the fact of when they were adopted
2 is, it's a -- that's more for legal argument than
3 having -- I can put Ms. Grabel on the spot here and --

4 MS. GRABEL: I'd be happy to do my closing
5 right now.

6 CHMN STAFFORD: This is history knowledge,
7 but I think those are more to be brought out in the oral
8 argument. They can't -- the applicant isn't going to be
9 in the position to testify about what statute was passed
10 when with fact witnesses. And this is the fact portion
11 of the hearing.

12 MS. JOHNSON: I agree with you and yet they
13 cited the statute and the administrative code in their
14 presentation, but I'll move on.

15 CHMN STAFFORD: Yes, thank you.

16 BY MS. JOHNSON:

17 Q. Has the Black Mountain Expansion Project won an
18 All-Source RFP?

19 A. (MR. BRYNER) No.

20 Q. Do you plan to bid into your own All-Source RFP
21 for the Black Mountain Expansion Project?

22 A. (MR. BEARCE) If we feel that we have a
23 competitive position, then we will likely strongly
24 consider doing so. We don't have enough facts.

25 Q. Okay. And can you point me to the place in your

1 IRP where you discuss the Black Mountain Expansion
2 Project?

3 A. (MR. BRYNER) So I think we went over that
4 earlier, looking at the IRP in a few different places.
5 It doesn't specifically mention the words "Black Mountain
6 Expansion Project," it mentions our need for
7 200 megawatts of, you know, again, the preferable
8 resource was combustion turbine.

9 Q. And so just to be clear, does your IRP
10 specifically mention the Black Mountain Expansion
11 Project?

12 A. (MR. BRYNER) Again, no.

13 Q. Thank you.

14 Okay. Back on page 2 of your application, which
15 is UNSE-1, and the page would be ES-2. Also, we're still
16 in the first main paragraph. It says, "The existing
17 Black Mountain Generating Station is comprised of two
18 separate units, each with a nameplate rating of
19 61 megawatts."

20 Do you see that?

21 A. (MR. BRYNER) Sorry.

22 Yes, I found it.

23 Q. Okay. And so you are -- we are clear that it is
24 61 megawatts and not 48 or 45, right?

25 A. (MR. BRYNER) Correct. And I believe that's in

1 the stipulation of facts that everybody agreed on.

2 Q. Okay. Could you turn to ArISEIA-1, please.

3 Are you there?

4 A. (MR. BRYNER) Yes.

5 Q. Is ArISEIA-1 the ADEQ air permit from 2007, an
6 excerpt?

7 A. (MR. BRYNER) Yes.

8 Q. Okay. And if you move to what is labeled page 1
9 of 37, which is page 6 of the PDF, I assume approximately
10 page 6 of the binder.

11 A. (MR. BRYNER) Okay. I'm there.

12 MEMBER KRYDER: Please read the heading
13 again.

14 MS. JOHNSON: Okay. Yes, I will. The top
15 of the page reads "Arizona Department of Environmental
16 Quality, Air Quality Class 1 Permit," and I'm looking at
17 the second full paragraph under what is called "Summary."

18 CHMN STAFFORD: It's like page 6. Keep
19 going. There you go. That's it.

20 MS. JOHNSON: Are we all -- are we all
21 ready?

22 CHMN STAFFORD: You got it, Member Kryder?

23 MEMBER KRYDER: Go ahead.

24 BY MS. JOHNSON:

25 Q. Okay. Paragraph 2 under "Summary" reads, "The

1 principal equipment at BMGS will be two simple-cycle
2 combustion turbine generators, each with a designed
3 capacity of approximately 48 megawatts, for a total
4 combined plant capability of approximately 96 megawatts."

5 Do you see that?

6 A. (MR. BRYNER) Yes.

7 Q. Okay. We're going to turn now to Sierra Club
8 21. And Mr. Woolsey asked you about this earlier.

9 A. (MR. BRYNER) Okay. I'm there.

10 Q. I also want to look at the second paragraph
11 under "Summary," it says that BMGS "Consists of two
12 simple-cycle combustion turbine generator units with a
13 nominal net capacity of 45 megawatts each, for a total of
14 90 megawatts."

15 Do you see that?

16 A. (MR. BRYNER) Yes.

17 Q. Okay. If you can turn to Sierra Club 22,
18 please.

19 A. (MR. BRYNER) Okay.

20 Q. Okay. Can you look at the first paragraph under
21 the "Executive Summary." It says, "The station consists
22 of two simple-cycle combustion turbine generators,
23 General Electric LM6000 PC SPRINT, designated as gas
24 turbine Units 1 and 2, each with a nominal net capacity
25 of 45 megawatts for a total combined plant net capacity

1 of 90 megawatts."

2 Do you see that?

3 A. (MR. BRYNER) Yes.

4 MS. GRABEL: Actually, it says capability
5 of 90 megawatts, not capacity.

6 MS. JOHNSON: That's fine, capability.

7 Q. Do you see it?

8 A. (MR. BRYNER) Yes, I see that.

9 Q. Okay. Can you turn to Sierra Club 26, please.

10 A. (MR. BRYNER) Okay.

11 Q. And could you identify this document for
12 everyone?

13 A. (MR. BRYNER) It's a few pages pulled out of
14 UniSource's latest IRP.

15 Q. Okay. And we touched on this a little bit, but
16 I just want to be clear. Could you turn to page 2 of
17 Appendix B?

18 CHMN STAFFORD: And, for the record,
19 UNSE-15 is the entire 2023 IRP, correct?

20 MR. BRYNER: That's correct.

21 CHMN STAFFORD: Okay.

22 BY MS. JOHNSON:

23 Q. What does it say is the net nominal capacity and
24 the UNSE planning capacity of each unit at Black
25 Mountain?

1 A. (MR. BRYNER) So it lists the net nominal
2 capability at Black Mountain Unit 1 of 45 megawatts,
3 Black Mountain Unit 2 of 45 megawatts, and the planning
4 capacity is listed as the same.

5 Q. Okay. Can you turn to page 4 of Appendix B of
6 that same exhibit?

7 A. (MR. BRYNER) Okay.

8 Q. The top left says, "The Black Mountain
9 Generating Station is located approximately five miles
10 south of Kingman, Arizona, and provides UNSE with
11 90 megawatts of combustion turbine capacity from two
12 units."

13 Do you see that?

14 A. (MR. BRYNER) I see that, yes.

15 Q. Okay. Okay. Now, we're going to move back to
16 your application. And, Chairman, you'll have to beg my
17 forgiveness, because a little bit of this talks about
18 what you talked about, but not entirely.

19 So if we can go back to page 2 of the
20 application, that's ES-2 of UNSE-1.

21 A. (MR. BRYNER) Okay.

22 Q. Okay. You say, "Importantly, the Commission has
23 addressed several issues related to the Black Mountain
24 Generation Station without suggesting that a CEC should
25 have been obtained for them."

1 Do you see that?

2 A. (MR. BRYNER) I see that.

3 Q. And I'm not going to ask you about precedent,
4 because we've already gone around and around about that.
5 But I just want to be clear that if we take a look at
6 those Decisions. So Decision Number 70186 is Sierra Club
7 29. Can you look at page 2 of that Decision, line 3?

8 Tell me when you're there.

9 A. (MR. BRYNER) I'm there. Just reading it, sorry.

10 UNIDENTIFIED SPEAKER: What document?

11 BY MS. JOHNSON:

12 Q. This is Sierra Club 29, which is Decision Number
13 70186. We're looking at page 2 of that Decision, line 3.
14 And it says, "UED is constructing a 90-megawatt
15 simple-cycle gas-fired electric generation station known
16 as Black Mountain Generating Station near Kingman,
17 Arizona."

18 Do you see that?

19 A. (MR. BRYNER) Yes.

20 Q. Can you point me to anywhere in the decision
21 where it says the plant is 122 megawatts?

22 CHMN STAFFORD: We've already covered this,
23 I believe. None of these Decisions say that there's a
24 nameplate rating of 61 megawatts for each of the units.
25 It's constantly referred to in every Commission document

1 as being 45 or 48 megawatts per unit. The nameplate
2 capacity is never mentioned in any of these documents as
3 far as I can see.

4 And because it's apparently the nameplate
5 ratings's only relevant to the jurisdiction of this
6 Committee and nobody else cares about it, because they're
7 only concerned what the actual output of the plant could
8 be when it's going to be used. So I think you firmly
9 established that they've never referred to this plant as
10 having nameplate ratings of 61 megawatts for each unit
11 prior to this proceeding. I think we can all agree to
12 that, correct?

13 MS. GRABEL: The Company stipulates to
14 that, Mr. Chairman.

15 CHMN STAFFORD: All right.

16 MS. JOHNSON: And does the Company also
17 stipulate to the fact then that if they never knew it was
18 122 megawatts, they wouldn't have known that you were
19 operating a CEC [sic] without a CEC.

20 MS. GRABEL: We will not stipulate to that
21 because I do not know what the Arizona Corporation
22 Commission knew about the nameplate rating.

23 MS. JOHNSON: You'll stipulate to the fact
24 there's no document that says the nameplate rating, but
25 not to the fact they don't know the nameplate rating.

1 MS. GRABEL: I will stipulate that none of
2 these documents identify the nameplate rating, nor in the
3 engineering report that discusses the facility.

4 MS. JOHNSON: Have you provided any
5 documents to the Commission that stipulate or that state
6 the nameplate rating?

7 MS. GRABEL: We do not know of any other
8 documents that discuss the nameplate rating.

9 MS. JOHNSON: Okay. And is it your
10 position that the Commission consciously disclaimed
11 jurisdiction over the plant in Decision Number 70186?

12 MS. GRABEL: Can you repeat that question?

13 MS. JOHNSON: Is it UNSE's position that
14 the Commission consciously disclaimed its jurisdiction
15 over a plant that it knew to be 122 megawatts?

16 MS. GRABEL: Ms. Johnson, we do not know --
17 we were not parties -- obviously, UNSE was a party to
18 that decision, I personally was not, none of the people
19 at this table were. And we cannot tell you what
20 conversations happened then. We can't answer that
21 question.

22 MS. JOHNSON: I think it's interesting,
23 Chairman, that they've put forward these Decisions in
24 their application, and yet the witnesses that they have
25 provided cannot speak to them.

1 CHMN STAFFORD: Yeah, these facts aren't
2 really an issue. I guess this is more of a legal
3 argument about what should happen. I think, now
4 depending on what the Committee and the Commission
5 interprets the statute to mean, I guess if the Company or
6 the Company's predecessor guessed wrong, then they would
7 have to rectify that at some point, presumably. But
8 right now we're just trying to get to the facts of what
9 the existing plant and the proposed plant. And then
10 we'll have time for argument of whether the CEC process
11 applies to it or not.

12 But I think we've clearly established that
13 the nameplate rating was not addressed in any of these
14 cited Decisions that are now been admitted. And that as
15 far as I'm aware, is that the first time, certainly this
16 Committee had any inkling that the nameplate ratings for
17 those two units was more than 45 or 48 as the application
18 that was filed in this case, where they brought to light
19 the actual nameplate rating, which nobody cared about
20 before, was actually higher, it was actually 61 for each
21 unit.

22 MS. JOHNSON: Chairman, I'll move on, but I
23 would like the record to note that both Decision 71914,
24 which is Sierra Club 30, and Decision Number 72213, which
25 is Sierra Club 31, do not indicate that the plant

1 exceeded 100 megawatts.

2 CHMN STAFFORD: Yes, so noted. I think
3 we've all stipulated to that. No one's contesting that.

4 MS. JOHNSON: Okay.

5 Q. Back to page 2 of your application. ES-2,
6 UNSE-1. You state that, "The Company understands that
7 the Committee has entertained CEC applications from
8 applicants seeking to build a project with a cumulative
9 capacity in excess of 100 megawatts." And then you cite
10 to TEP's RICE project. The panel also works for TEP; is
11 that correct?

12 A. (MR. BRYNER) That's correct.

13 Q. Okay. When did UNSE come to interpret
14 ARS 40-360.09 in the manner asserted in this application?

15 MS. GRABEL: I'm going to object to that,
16 it calls for privileged information.

17 CHMN STAFFORD: Yeah, I'm going to sustain
18 that objection.

19 BY MS. JOHNSON:

20 Q. Whose idea was it?

21 MS. GRABEL: Again, object on the basis of
22 privilege.

23 CHMN STAFFORD: Yeah, sustained.

24

25 BY MS. JOHNSON:

1 Q. When did UNSE decide to apply for a disclaimer
2 of jurisdiction?

3 MS. GRABEL: I'm objecting to that on the
4 basis of confidentiality.

5 CHMN STAFFORD: Sustained. I mean,
6 we -- it was some point before -- well, they filed the
7 application, obviously, but we don't even know when -- I
8 guess we don't even know if UniSource was even aware what
9 the nameplate rating was when they acquired it from the
10 other entity. And we don't have anybody that can testify
11 as to who knew what when.

12 BY MS. JOHNSON:

13 Q. I believe that Mr. Bryner acknowledged that they
14 have known that the plant was 61 megawatts for each unit
15 since they purchased it; is that correct?

16 A. (MR. BRYNER) I guess I should clarify my answer
17 to you. I was interpreting that you said did we know
18 that we didn't have a CEC, did we know that there was
19 never a request for a disclaimer of jurisdiction, and the
20 answer to those was yes.

21 Q. Okay. When did you know the size of each of the
22 turbines?

23 A. (MR. BRYNER) I don't know that I can answer
24 that.

25 CHMN STAFFORD: I guess, you personally,

1 when did you -- when did you come to know, because it's a
2 fact, as stated in here, it says there's two separate
3 units each with a nameplate rating of 61 megawatts. When
4 were you personally aware of that fact?

5 MS. GRABEL: Mr. Chairman, I'm going to
6 object to this based on relevance. I don't know how this
7 inquiry is relevant to the legal argument that's at issue
8 today. And I'm not sure why it would be relevant when
9 Mr. Bryner would have come to understand that a
10 disclaimer requirement was going to be made, or whatever
11 the question was. I think we're getting way off topic.

12 MR. BRYNER: Do you want me to answer?

13 CHMN STAFFORD: I think -- I'm interested
14 to know. I mean, you've come in here with this request,
15 and so I'm going to assume that you must have realized
16 this at some point when you were preparing to add to the
17 plant that it came to light that the units were actually
18 61 megawatts.

19 MR. BRYNER: So I attested to that we filed
20 our plan for this expansion back in early November, as we
21 were preparing to file that plan. That's when I became
22 more familiar with the current units at Black Mountain
23 and what their nameplates were.

24 CHMN STAFFORD: Okay.

25 MR. BRYNER: So this --

1 CHMN STAFFORD: So November of last year?

2 MR. BRYNER: Thereabouts.

3 MS. HILL: Mr. Chairman.

4 CHMN STAFFORD: Yes.

5 MS. HILL: May I clarify?

6 And I believe several of these were pointed
7 to in the Sierra Club exhibits on Mr. Woolsey's
8 cross-examination. We file an EIA-860 form every year,
9 and in that form we, as a company, must list the
10 nameplate rating of each of the units at Black Mountain
11 as Mr. Woolsey pointed out. He pointed out that both of
12 those units are on one form, as the form is designed, and
13 each of them is there identified as 61-megawatt nameplate
14 ratings. So we have been, as a company, acknowledging
15 that publicly on those forms.

16 I believe the Sierra Club asked us to
17 provide five for six years of those, and certainly on
18 every single one of those we were acknowledging that
19 publicly as a company.

20 CHMN STAFFORD: All right. Okay. That's
21 fair. You would have to know that, because you were
22 required to file that form. And apparently someone else
23 cares about the nameplate capacity.

24 MS. HILL: Actually, yeah, they do.

25 CHMN STAFFORD: That's like --

1 MEMBER GOLD: Yes, back in 1971.

2 CHMN STAFFORD: Pardon?

3 MEMBER GOLD: I'm sorry, Mr. Chairman. I
4 said, yes, back in 1971.

5 CHMN STAFFORD: No, this is current. I
6 mean, you file that form annually with the Energy
7 Information Systems, that's the EIS we're talking about?

8 MS. HILL: EIA, yes.

9 CHMN STAFFORD: EIA, is it Energy
10 Information --

11 MS. HILL: Administration.

12 CHMN STAFFORD: Administration, yes.

13 MEMBER GOLD: But the nameplate rating
14 isn't really relevant, it can only produce 42 or --

15 CHMN STAFFORD: Right. Right. The
16 nameplate -- my point is that the nameplate rating has
17 relevance in another setting besides this Committee's
18 juris- -- the Committee's and the Commission's
19 jurisdiction. Because everything else that they talked
20 about, you know, with the Commission, they were concerned
21 about what the output was, you know, like how to meet
22 their load, is it used and useful, was it a prudent
23 expense, did they buy a giant plant when they needed
24 something half the size. That's the kind of thing
25 they're looking at.

1 And the nameplate isn't really relevant
2 there, because -- and the nameplate I believe they
3 testified is always going to be higher than what you can
4 actually operate the plant on. Because, particularly in
5 the summer in Arizona, you can't because that's a harsh
6 environment and it's not the ideal ambient conditions to
7 get the most out of the generator. That's why they use
8 the water to cool it to improve the efficiency to boost
9 the output in those high temperatures, correct?

10 MR. BEARCE: (No audible response.)

11 CHMN STAFFORD: Right. I'd maybe iterate
12 that he's nodding, so --

13 MR. BEARCE: Yes, Mr. Chairman. For the
14 record.

15 MEMBER GOLD: So if I understand this
16 completely, Mr. Chairman, the nameplate rating for a
17 generating unit is equivalent to the red line on a car,
18 where if you exceed it, it explodes or something?

19 MR. BEARCE: The only variance is it's
20 pretty much guaranteed to fail. Your car might handle
21 it. It's a little different.

22 CHMN STAFFORD: Because you can get in the
23 red, you just can't keep it in the red for a car. But
24 apparently for the generating units, red's a complete
25 no-go.

1 MEMBER GOLD: Got it. So this thing is
2 42 megawatts and that's the actual output. So in effect
3 you've got 42 times four, if you turn them all on at the
4 same time?

5 MR. BEARCE: We're estimating 45 megawatts,
6 but yes, sir.

7 CHMN STAFFORD: So 45, 90, 180 megawatts if
8 you're running everything at the same time at the maximum
9 capacity, maximum safe capacity?

10 MR. BEARCE: (No audible response.)

11 MEMBER GOLD: Gotcha. Thank you.

12 CHMN STAFFORD: If you run above that it
13 stops operating, right?

14 MR. BEARCE: (No audible response.)

15 MS. HILL: Mr. Bearce, you have to answer
16 out loud for the court reporter.

17 MR. BEARCE: I apologize. So yes, stop
18 oper- -- I don't want to get too far in the hypothetical.
19 I mean, if you run things full out it will fatigue them.
20 The manufacturer puts ratings on them, and we don't
21 exceed those. In this case the prime mover in question,
22 the combustion turbine is incapable of producing it, so
23 it's of little concern to us that we'll ever exceed that,
24 because it can't do that. But yes, we do not run things
25 beyond. And that's where the conversation we had

1 regarding you take the lower, because you can't push
2 equipment beyond its design capabilities, and that's
3 really what we're trying to articulate here, because in
4 this case we can't and we wouldn't.

5 MEMBER GOLD: Mr. Chairman?

6 CHMN STAFFORD: Yes, Member Gold.

7 MEMBER GOLD: Getting back to relevancy, to
8 why we're all here today, each of your generators can
9 produce 45 megawatts safely?

10 MR. BEARCE: That's correct.

11 MEMBER GOLD: Combined, if they're all
12 running at the same time, you have 180 megawatts, plus
13 the other two plants -- the other two generators that are
14 already there, which is another 90?

15 MR. BEARCE: That would be correct, per our
16 design.

17 MEMBER GOLD: Gotcha. Thank you.

18 CHMN STAFFORD: So the total net output
19 capability if the expansion is done, as described today,
20 would be -- was it 270 megawatts would be the total
21 output for the entire generating station?

22 MR. BEARCE: That's our best estimate for
23 the station.

24 CHMN STAFFORD: All right. So but
25 typically you don't refer to the nameplate capacity at

1 all, we've seen two contexts in terms of the Siting
2 Committee, and then in the EIA data that you're
3 required -- you file that form annually, correct?

4 MS. HILL: That's correct.

5 CHMN STAFFORD: And they also track what
6 the output was, emission, the total amount of kilowatt
7 hours generated?

8 MS. HILL: I believe so, I would have to
9 have one of the reports in front of me again, sir, and --

10 CHMN STAFFORD: I don't have to know the
11 peak load, I'm just saying generally that's what's
12 contained in these reports with the EIA?

13 MS. HILL: As I recall, yes.

14 CHMN STAFFORD: All right.

15 Anything further, Ms. Johnson.

16 MS. JOHNSON: Oh, yes.

17 Q. Okay. So back to the EIA forms, when did you
18 commence filing the EIA forms that would have reflected
19 61 megawatts for Black Mountain Generating Station?

20 MS. HILL: I'm sorry, I'm answering this as
21 counsel, which is that I am unaware of any time that we
22 were out of compliance, and I'm not sure if the EIA-860s
23 were required or some form of that, back when they were
24 acquired in 2007, so I can check our archives and get
25 back to Ms. Johnson on that, but I don't believe that's

1 relevant to the issue of statutory interpretation.

2 CHMN STAFFORD: Yeah, we've already
3 established that the nameplate rating is 61 megawatts for
4 each of the two existing units. So do you have any other
5 questions that don't involve the 61 megawatts?

6 MS. JOHNSON: I do think it's relevant how
7 long they've knowingly been operating the plant in
8 violation of the statute, but I can move on.

9 MS. GRABEL: I object.

10 CHMN STAFFORD: Yeah, I'm going to state
11 that -- what we're trying to determine today is
12 whether -- what the statute means, so I guess the Company
13 has its own interpretation. It's up to this Committee
14 and the Commission and potentially the courts to decide
15 who is right.

16 But I guess if, ultimately, the decision is
17 that that their interpretation of the statute is wrong,
18 then it would be in violation of the statute, but we
19 haven't determined that yet. And that's not -- and this
20 is the first step towards that, because there's this
21 Committee, then there's the Commission, and potentially
22 the courts after that, but that's going to be the
23 ultimate conclusion. And I think your question's a
24 little conclusory.

25 MS. JOHNSON: I'll move on either way.

1 Q. Are you aware of the Commission ever disclaiming
2 jurisdiction over a project because the individual
3 turbines were under 100 megawatts?

4 A. (MR. BRYNER) So I think I said earlier that I'm
5 not aware of anybody filing for a disclaimer of
6 jurisdiction.

7 Q. Has UNSE or TEP ever asked it to disclaim
8 jurisdiction over a project because the individual
9 turbines were under 100 megawatts?

10 MS. GRABEL: Mr. Chairman, we've been
11 through this before. I thought we were going to kind of
12 streamline --

13 CHMN STAFFORD: Yes, I think the answer to
14 that question is no, this is the first time someone's
15 asked for a disclaimer of jurisdiction for a plant,
16 correct?

17 MS. GRABEL: Correct.

18 CHMN STAFFORD: All right.

19 BY MS. JOHNSON:

20 Q. Okay. Let's turn to the plant operations. Will
21 each turbine need its own CEC?

22 CHMN STAFFORD: No.

23 MR. BEARCE: And I think that --

24 MS. GRABEL: Yeah, I'm going to object to
25 that, I mean, it calls for a --

1 CHMN STAFFORD: That's a legal conclusion.

2 MS. GRABEL: -- legal conclusion as to
3 whether or not they are required to have a CEC under the
4 definition of plant.

5 CHMN STAFFORD: Sustained.

6 MS. JOHNSON: Okay. Well, it is in a data
7 response which are factual. We can turn to that, if you
8 like. ArISEIA-2, question 1.8.

9 CHMN STAFFORD: Ms. Johnson, about how much
10 more cross-examination do you have left?

11 MS. JOHNSON: About three questions, I
12 think. Well, like five questions.

13 CHMN STAFFORD: All right. Well, it's been
14 another 90 minutes, so we're going to take a break for
15 the court reporter. We'll take an approximately 10- to
16 15-minute break and then come back.

17 We stand in recess.

18 (Recessed from 5:00 p.m. until 5:14 p.m.)

19 CHMN STAFFORD: Let's go back on the
20 record.

21 Ms. Johnson, you were almost done with your
22 cross?

23 MS. JOHNSON: I am almost done. Thank you.

24 Q. If we can please turn to ArISEIA-2.

25 This is UNSE's Supplemental Response to

1 Ariseia's First Data Request and Ariseia question 1.8.

2 A. (MR. BRYNER) I'm there.

3 Q. Okay. So question 1.8 is, "If each turbine is
4 its own unit under ARS Section 40-360.09, does each unit
5 need its own CEC for which separate hearings would be
6 required?" And the UNSE response is "No"; is that
7 correct?

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

9 Q. Okay. And how close together are the turbines?

10 A. (MR. BRYNER) Can you clarify which turbines
11 we're talking about?

12 Q. The ones for the expansion project?

13 A. (MR. BRYNER) I haven't measured that out, but in
14 our schematic, I would say they're roughly the same as
15 the existing units, which is 1- to 200 feet.

16 Q. Okay. So firmly within one mile of each other,
17 correct?

18 A. (MR. BRYNER) Yes.

19 Q. Okay. Will each turbine have its own
20 interconnection request?

21 A. (MR. BRYNER) No.

22 Q. Okay. Will each turbine have its own air
23 permit?

24 A. (MR. BRYNER) So, again, I think we've covered
25 these questions, that the generating station would have

1 an air permit. The interconnection request has to do
2 with the station, not each unit.

3 Q. Okay.

4 CHMN STAFFORD: And just to clarify, I
5 believe you testified that the air permit would be for
6 both the existing -- would cover both the existing and
7 the expansion. You would have one air permit for all six
8 units at some point. The other four would get built,
9 correct?

10 MR. BRYNER: Yeah, Mr. Chairman, so it's a
11 permit for the generating station, so it would be a
12 modification to that existing air permit.

13 CHMN STAFFORD: Okay. Please continue.

14 MS. JOHNSON: I believe that my last two
15 questions have been covered elsewhere, and so I actually
16 can conclude now.

17 CHMN STAFFORD: All right. Well, it has
18 become apparent that we're not going to finish this
19 today. I think we can -- we will go into -- we will
20 recess until tomorrow at 11:00, and we will take --
21 continue back tomorrow in the same room at 11:00. And we
22 will start with WRA's cross-examination and then SWEEP's
23 and then Staff's.

24 And then I believe that Sierra Club and WRA
25 have -- each have one witness that they're going to

1 present as a panel; is that correct?

2 MR. SHRINATH: That's correct, your
3 Honor -- or, Mr. Chairman, but our witness is unavailable
4 tomorrow.

5 CHMN STAFFORD: Well, I guess -- what is
6 the scope of her testimony going to be? Please remind
7 me.

8 MR. SHRINATH: The scope of her testimony
9 is she's going to testify as to the connectedness of the
10 various facilities at the plant. She's going to testify
11 as to the classification of the generating station in
12 various state, federal, and other permitting contexts.
13 And then she was also going to, you know, from a class
14 system perspective testify as to, you know, the normal
15 classification of the BMGS units, such as those proposed
16 by BMGS as well.

17 CHMN STAFFORD: All right. I'm not hearing
18 anything that hasn't already been covered.

19 MR. WOOLSEY: So Mr. Chairman, if I might
20 add, there are a number of specific issues related to
21 what Mr. Shrinath just summarized that have not been
22 covered today. We'd like to have Ms. Fogler testify to
23 her opinion.

24 MS. GRABEL: Mr. Chairman, if I might
25 suggest, perhaps their witness could offer an affidavit

1 and file it in the docket tomorrow, and we will, you
2 know, waive the ability to cross-examine her. And I
3 understand that it is a panel with the WRA witness, so
4 perhaps he can address any additional issues that Sierra
5 Club has.

6 MR. SHRINATH: With all due respect,
7 Mr. Chairman, I feel like this is a major due process
8 issue. Our cross has been winnowed down over -- our
9 direct testimony has been winnowed down over the course
10 of today to make sure there isn't overlap. And I can
11 assure you that we don't intend to create overlap with
12 what's been said today. And we're not sure an affidavit
13 would suffice. But, you know, we understand there are,
14 you know, obviously procedural and logistical issues
15 here, and we'll make do, but I do think there's a major
16 due process issue here since we thought April 24th was
17 the hearing date and our witnesses have, you know, other
18 commitments.

19 CHMN STAFFORD: Well, everyone does, but we
20 have to come back tomorrow because we didn't finish
21 today. In other cases before the Commission, witnesses
22 have to be on standby unless they specifically get
23 authorization from the ALJ that they're going to testify
24 on a specific day. They have to be ready to be called
25 upon to fill the space as the hearing permits.

1 So we will be coming back tomorrow. I
2 suggest you try to get ahold of your witness and work
3 something out. Mr. -- Dr. Routhier, I assume, will be
4 here tomorrow?

5 MS. DOERFLER: Yes, Dr. Routhier will be
6 here tomorrow. Although WRA does want to state that it
7 also would object to this as a due process issue. We
8 have prepared for this case in the panel structure, and
9 we believe that Dr. Routhier's testimony is complementary
10 to Sierra Club's witness's testimony. And so I don't
11 find that to be an efficient or appropriate replacement
12 for that testimony.

13 CHMN STAFFORD: So noted.

14 All right. With that, we will recess this
15 hearing until tomorrow at 11:00 a.m.

16 We stand in recess.

17 (The hearing concluded at 5:21 p.m.)

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1 STATE OF ARIZONA)
COUNTY OF MARICOPA)

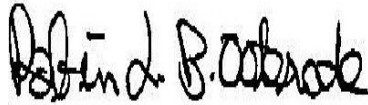
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11 30th day of April, 2024.

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ROBIN L. B. OSTERODE, RPR
CA CSR No. 7750
AZ CR No. 50695

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