

1 BEFORE THE ARIZONA POWER PLANT LS-372  
2 AND TRANSMISSION LINE SITING COMMITTEE  
3 IN THE MATTER OF THE APPLICATION OF ) DOCKET NO.  
4 ARIZONA PUBLIC SERVICE COMPANY, IN ) L-00000D-24-0156-  
5 CONFORMANCE WITH THE REQUIREMENTS ) 00234  
6 OF ARIZONA REVISED STATUTES SECTION )  
7 40-360, ET SEQ, FOR A CERTIFICATE )  
8 OF ENVIRONMENTAL COMPATIBILITY )  
9 AUTHORIZING THE REDHAWK POWER PLANT )  
10 EXPANSION PROJECT, WHICH INCLUDES )  
11 THE CONSTRUCTION OF NATURAL GAS )  
12 TURBINES, A 500kv SWITCHYARD AND )  
13 RELATED FACILITIES, ALL LOCATED TWO )  
14 MILES SOUTHEAST OF THE INTERSECTION )  
15 OF ELLIOT ROAD AND WINTERSBURG ROAD ) EVIDENTIARY  
16 IN MARICOPA COUNTY, ARIZONA. ) HEARING  
17 )  
18 )  
19 )  
20 )  
21 )  
22 )  
23 )  
24 )  
25 )

12 At: Goodyear, Arizona  
13 Date: August 21, 2024  
14 Filed: August 27, 2024

16 REPORTER'S TRANSCRIPT OF PROCEEDINGS  
17 VOLUME III  
18 (Pages 409 through 591)

21 GLENNIE REPORTING SERVICES, LLC  
22 Court Reporting, Video & Videoconferencing  
23 1555 East Orangewood Avenue, Phoenix, AZ 85020  
24 602.266.6535 admin@glennie-reporting.com

24 By: Robin L. B. Osterode, CSR, RPR  
25 Arizona CR No. 50695

1	VOLUME I	August 19, 2024	Pages 1 to 145
2	VOLUME II	August 20, 2024	Pages 146 to 408
3	VOLUME III	August 21, 2024	Pages 409 to 591
4	VOLUME IV	August 22, 2024	Pages 592 to 702

5

6

INDEX TO PROCEEDINGS

7

	ITEM	PAGE
8	Opening Statement of Mr. Derstine	13
9	Opening Statement of Ms. Doerfler	25
10	Presentation of Virtual Tour	113
11	Public Comment Session	132
12	Closing Statement of Mr. Derstine	557
13	Closing Statement of Ms. Doerfler	565
14	Deliberations	602
15	Vote CEC-234	698

16

17

INDEX TO EXAMINATIONS

18

19

20

21

22

23

24

25

	WITNESSES	PAGE
	BRIAN COLE, MICHAEL EUGENIS, and PETER VAN ALLEN - Applicant	
	Direct Examination by Mr. Derstine	29
	Direct Examination (Cont.) By Mr. Derstine	156
	WITNESSES	PAGE
	MARK TURNER - Applicant	
	Direct Examination by Mr. Derstine	113

1 INDEX (Continued):

2

INDEX TO EXAMINATIONS

3 WITNESSES PAGE

4 JASON SPITZKOFF

5 Direct Examination by Ms. Benally 283

6

WITNESSES

7

ANNE CARLTON and MARK NICHOLLS

8

Direct Examination by Mr. Derstine 318

9

10 WITNESSES

11 MARK TURNER and KEVIN DUNCAN

12 Direct Examination by Ms. Benally 420

13 Direct Examination by Mr. Derstine 475

14

INDEX TO EXHIBITS

15

NO.	DESCRIPTION	IDENTIFIED	ADMITTED
-----	-------------	------------	----------

16

APS-1	Application For Certificate of Environmental Compatibility (CEC) (filed July 8, 2024) - Page One	225	533
-------	--	-----	-----

17

18

APS-2	Project Placemat	--	533
-------	------------------	----	-----

19

APS-3	Witness Summary of Brian Cole	--	533
-------	-------------------------------	----	-----

20

APS-4	Witness Summary of Michael Eugenis	--	533
-------	------------------------------------	----	-----

21

APS-5	Witness Summary of Peter Van Allen	--	533
-------	------------------------------------	----	-----

22

APS-6	Witness Summary of Jason Spitzkoff	--	533
-------	------------------------------------	----	-----

23

1 INDEX (Continued):

2

INDEX TO EXHIBITS

3

4 NO.	DESCRIPTION	IDENTIFIED	ADMITTED
5 APS-7	Witness Summary of Anne Carlton	--	533
6 APS-8	Witness Summary of Mark Nicholls	--	533
7 APS-9	Witness Summary of Mark Turner	--	533
8 APS-10	Witness Summary of Kevin Duncan	--	533
9 APS-11	Witness Presentation Slides	47	533
10 APS-12	Proposed Certificate of Environmental Compatibility with Maps	--	533
11 APS-13	Affidavits - Proof of Publication of Notice of Hearing	526	533
12 APS-14	Proof of Delivery of Application for Certificate of Environmental Compatibility to Public Locations	528	533
13 APS-15	Proof of Delivery of Pre-Filing Conference Transcripts to Public Locations	528	533
14 APS-16	Proof of Website Posting (Screenshot)	528	533
15 APS-17	Proof of Service to Affected Jurisdiction	527	533
16 APS-18	Proof of Posting: Photos of Notice of Hearing Signs Posted at Site and Map	526	533

25

1 INDEX (Continued):

2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

INDEX TO EXHIBITS

NO.	DESCRIPTION	IDENTIFIED	ADMITTED
APS-19	Letter to State Historic Preservation Office (SHPO)	468	533
APS-20	Public Involvement Summary	514	533
APS-21	Tour Itinerary and Map	--	533
APS-22	North American Electric Reliability Corporation, 2023 Long-Term Reliability Assessment, December 2023	531	533
APS-23	2023 Western Assessment of Resource Adequacy, Western Electricity Coordinating Council	532	533
APS-24	Mark Specht, To Understand Energy Storage, You Must Understand ELCC, Union of Concerned Scientists Blog (June 14, 2021) <a href="https://blog.ucsusa.org/mark-specht/to-understand-energy-storage-you-must-understand-elcc/">https://blog.ucsusa.org/mark-specht/to-understand-energy-storage-you-must-understand-elcc/</a>	--	WITHDRAWN
APS-25	Cameron Murray, Canadian Solar's Recurrent Energy signs 20-year tolling agreement for 1.2GWh BESS in Arizona, Energy Storage News (Aug. 16, 2023), <a href="https://www.energy-storage.news/canadian-solars-recurrent-energy-signs-20-year-tolling-agreement-for-1-2gwh-bess-in-arizona/">https://www.energy-storage.news/canadian-solars-recurrent-energy-signs-20-year-tolling-agreement-for-1-2gwh-bess-in-arizona/</a>	--	WITHDRAWN

1 INDEX (Continued):

2

INDEX TO EXHIBITS

3

NO.	DESCRIPTION	IDENTIFIED	ADMITTED
APS-26	Cameron Murray, Arizona utility APS signs 20-year tolling agreement with Strata for 1GWh BESS, Energy Storage News (May 25, 2023), <a href="https://www.energy-storage.news/arizona-utility-aps-signs-20-year-tolling-agreement-with-strata-for-1gwh-bess/">https://www.energy-storage.news/arizona-utility-aps-signs-20-year-tolling-agreement-with-strata-for-1gwh-bess/</a>	--	WITHDRAWN
10 APS-27	Social Media Posting with Hearing Information	530	533
11 APS-28	Public Hearing Notification Postcard Mailed August 5, 2024	529	533
13 APS-29	Russ Wiles, APS, SRP topped a record for energy demand this week. How they kept the lights on, Arizona Republic/AZCentral.com (Aug. 7, 2024), <a href="https://www.azcentral.com/story/money/business/2024/08/07/aps-srp-meet-energy-demand/74701367007/">https://www.azcentral.com/story/money/business/2024/08/07/aps-srp-meet-energy-demand/74701367007/</a>	--	WITHDRAWN
19 APS-30	Nick Karmia, Like SRP, APS also broke peak electricity demand record on 116-degree day, KJZZ Phoenix (Aug. 8, 2024), <a href="https://www.kjzz.org/kjzz-news/2024-08-08/like-srp-aps-als-broke-peak-electricity-demand-record-on-nearly-116-degree-day">https://www.kjzz.org/kjzz-news/2024-08-08/like-srp-aps-als-broke-peak-electricity-demand-record-on-nearly-116-degree-day</a>	--	WITHDRAWN

24

25

1 INDEX (Continued):

2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

INDEX TO EXHIBITS

NO.	DESCRIPTION	IDENTIFIED	ADMITTED
APS-31	Heidi Ratz, Vijay Satyal, Ph.D., Sydney Welter, Resource Adequacy in the Western Interconnection, Western Resource Advocates and Clean Energy Buys Institute(Aug. 2023) <a href="https://westernresourceadvocates.org/wp-content/uploads/2023/08/Resource-Adequacy-in-the-Western-Interconnection-August-2023.pdf">https://westernresourceadvocates.org/wp-content/uploads/2023/08/Resource-Adequacy-in-the-Western-Interconnection-August-2023.pdf</a>	--	WITHDRAWN
APS-32	Transcript of Alexander Routhier's Testimony from February 11, 2022, in the matter of Salt River Project's Expansion of the Coolidge Generating Station, Arizona Corporation Commission Docket No. L-00000B-21-0393-00197	--	WITHDRAWN
APS-33	ACC Staff Letter 08-14-2024	309	533
APS-34	PJM Interconnection Special Report, Strategies for Enhanced Gas-Electric Coordination: A Blueprint for National Progress (Feb. 21, 2024), <a href="https://www.pjm.com/-/media/library/reports-notices/special-reports/2024/20240221-strategies-for-enhanced-gas-electric-coordination-paper.ashx">https://www.pjm.com/-/media/library/reports-notices/special-reports/2024/20240221-strategies-for-enhanced-gas-electric-coordination-paper.ashx</a>	--	WITHDRAWN
APS-35	APS Revised Proposed Certificate of Environmental Compatibility	533	533

1 INDEX (Continued):

2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

INDEX TO EXHIBITS

NO.	DESCRIPTION	IDENTIFIED	ADMITTED
CHM-1	Proposed form of CEC	602	FOR REFERENCE
CHM-2	CEC with edits	602	FOR REFERENCE
CHM-3	Applicant proposed CEC with additional proposed Conditions	602	FOR REFERENCE
CHM-4	Revised attachments to proposed CEC	602	FOR REFERENCE



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 Hampton Inn & Suites, 2000 North Litchfield  
5 Road, Goodyear, Arizona, commencing at 9:00 a.m. on  
6 August 21, 2024.

7

8

9 BEFORE: ADAM STAFFORD, Chairman

10 LEONARD C. DRAGO, Department of Environmental  
Quality  
11 ROMAN FONTES, Counties  
(Videoconference appearance.)  
12 DAVID FRENCH, Arizona Department of Water Resources  
JON H. GOLD, General Public  
13 NICOLE HILL, Governor's Office of Energy Policy  
R. DAVID KRYDER, Agriculture Interests  
14 MARGARET "TOBY" LITTLE, General Public  
(Videoconference appearance.)  
15 GABRIELA SAUCEDO MERCER, Arizona Corporation  
Commission

16

17

APPEARANCES:

18

For the Applicant:

19

SNELL & WILMER  
By: Matthew Derstine  
One East Washington Street, Suite 2700  
21 Phoenix, Arizona 85004

22

PINNACLE WEST CAPITAL CORPORATION  
By: Linda Benally  
23 400 North 5th Street, MS 8695  
24 Phoenix, Arizona 85004

24

25

1 APPEARANCES (Continued):

2 For the Intervenor Western Resource Advocates:

3 WESTERN RESOURCE ADVOCATES  
4 By: Emily Doerfler  
5 1429 North 1st Street, Suite 100  
6 Phoenix, Arizona 85004  
7 (Videoconference appearance.)  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

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

3 Mr. Derstine, I believe you were about to  
4 introduce the third panel.

5 MR. DERSTINE: We are ready to introduce  
6 the third panel. Ms. Benally is going to handle the  
7 third panel, so we're ready to proceed.

8 CHMN STAFFORD: All right. Mr. Turner's  
9 already been sworn.

10 Mr. Duncan, would you prefer an oath or  
11 affirmation?

12 MR. DUNCAN: Oath, please.

13 (Kevin Duncan was duly sworn by the  
14 Chairman.)

15 CHMN STAFFORD: Please proceed,  
16 Ms. Benally.

17 MS. BENALLY: Thank you, Mr. Chairman. I  
18 got feedback yesterday about my audio. Am I coming  
19 through clear?

20 CHMN STAFFORD: You're good.

21 MEMBER KRYDER: Thank you.

22 MS. BENALLY: Please stop me at any point,  
23 if I do sort of soften a bit. I'm a little soft in  
24 speaking.

25 (Mark Turner was previously duly sworn

1 by the Chairman.)

2

3

MARK TURNER and KEVIN DUNCAN,  
4 called as witnesses on behalf of Applicant, having been  
5 previously sworn by the Chairman to speak the  
6 truth and nothing but the truth, was examined and  
7 testified as follows:

8

9

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

10 BY MS. BENALLY:

11 Q. All right. Good morning, Mr. Turner. Are you  
12 ready?

13 A. (MR. TURNER) Yes, I am.

14 Q. Okay. Great. Would you please state your full  
15 name and address for the record, since you're on the  
16 final day here, perhaps?

17 A. (MR. TURNER) My name is Mark Turner. My  
18 business address is 7720 North 16th Street, Suite 100,  
19 Phoenix, Arizona 85020.

20 Q. And by whom are you employed and in what  
21 capacity?

22 A. (MR. TURNER) I'm employed by AECOM, and I'm a  
23 project manager and environmental consultant with them.

24 Q. Would you provide a high-level overview of  
25 AECOM?

1 A. (MR. TURNER) Yes.

2 AECOM is an engineering and environmental  
3 consulting firm. We -- civil engineering and  
4 environmental consulting firm serving the private and  
5 public clients in diverse markets, including the energy  
6 sector, water resources, transportation, and buildings  
7 and spaces.

8 Q. Okay. Thank you.

9 And what was your involvement in the Redhawk  
10 Expansion Project?

11 A. (MR. TURNER) AECOM has assisted APS with the  
12 environmental analysis and public involvement, as well as  
13 the preparation of the CEC exhibits.

14 Q. Okay. Great. Let's move to your educational  
15 background and work experience.

16 Would you please describe what that is?

17 A. (MR. TURNER) Trying to advance this slide, my  
18 apologies. I'm hitting the button I'm told works, but  
19 it's -- there's a different one. Oh, there we go,  
20 somebody advanced it, I don't know if it was me.

21 All right. I believe the question was my  
22 background?

23 Q. That is correct.

24 A. (MR. TURNER) Yes.

25 I am a wildlife biologist. I have two degrees

1 in that. My most advanced degree is a master's of  
2 science in biology. I have served as an environmental  
3 consultant since 1991. I currently serve as a project  
4 manager and environmental planner. I have managed more  
5 than 80 National Environmental Policy Act compliance  
6 efforts here in Arizona, along with hundreds of other  
7 environmental studies.

8 I've provided consulting to APS on various  
9 projects since 2000, that has ranged from Environmental  
10 Endangered Species surveys, Clean Water Act permitting,  
11 planning when projects are on federal land. And more  
12 recently my experience has included the CEC arena, and --  
13 as a subject matter expert in several line siting cases  
14 that are listed there on the screen.

15 Q. Okay. Thank you.

16 So you have a number of studies that are listed  
17 on the screen, APS-11, I think it's 231 -- 231, that's  
18 correct -- would you walk through what you'll be  
19 describing, walking the Committee through this  
20 afternoon -- or, pardon me, this morning?

21 A. (MR. TURNER) Yes.

22 I will be providing an overview of the  
23 environmental studies that were conducted by AECOM. That  
24 includes the land use, which is Exhibit A of the CEC  
25 application. We'll also talk about recreation, that's

1 Exhibit F. Biological resources, which are included in  
2 Exhibits C and D. Visual resources will be part of the  
3 Exhibit E summary, as well as cultural resources. And we  
4 do summarize existing plans in Exhibit H. And we did a  
5 noise-specific, project-specific survey, which is  
6 included in Exhibit I.

7 Q. All right. So starting your testimony this  
8 morning, let's begin with land use -- existing and  
9 planned land use.

10 A. (MR. TURNER) Yes.

11 As you can see on the figure on the right and I  
12 used the mouse. The project site is located in red in  
13 the center of the screen. We have a two-mile buffer  
14 that's in a circle. And the reason I'd like to have you  
15 look at the screen is we're talking about ownership, and  
16 the blue land that is colored blue is State land, and  
17 everything else is private land.

18 The project is located in unincorporated  
19 Maricopa County on private land owned by APS. Maricopa  
20 County -- Maricopa County's Vision 2030 Comprehensive  
21 Plan is the oversight document for land use decisions.  
22 That document is from 2016. The 2030 comprehensive plan  
23 references the Tonopah Arlington area plan from September  
24 of 2000. And within that area plan, there are land use  
25 guidelines that say, "Power plants in western Maricopa

1 County must seek industrial use designation, in addition  
2 to a Special Use Permit." The expansion project -- the  
3 existing Redhawk Power Plant does have a Special Use  
4 Permit, and the expansion project will be located within  
5 that existing plant site that is -- has a designation of  
6 industrial use. The Special Use Permit is Z-99-111, and  
7 this is a Maricopa County permit.

8 Q. Mr. Turner, I'm sorry to interrupt you, can you  
9 explain the status of that Special Use Permit?

10 A. (MR. TURNER) Yes, I can.

11 Maricopa County has issued -- issued the Special  
12 Use Permit in May of 2000 for the Redhawk Power Plant.  
13 It has been updated with minor amendments several times  
14 over -- over the years and in December of 2019, Maricopa  
15 County approved a major comprehensive plan amendment to  
16 change that land use in the Vision 2030 Comprehensive  
17 Plan to utilities.

18 The Special Use Permit will be amended to  
19 include the expansion project and will be constructed in  
20 compliance with those permit requirements. The Special  
21 Use Permit process will, as we mentioned, will require an  
22 amendment, and in early discussions with the County that  
23 will still follow the minor amendment process that has  
24 played out on several other occurrences.

25 I do want to talk about existing land uses. The



1 screen on your right, again, has data layers from  
2 Maricopa County. The colors are how they envision the  
3 existing land use. This includes single-family and  
4 low-density residential, and I'd like to point that out  
5 because of the proximity.

6 Again, the project site is located in the center  
7 of your screen in red, and the nearest resident is  
8 1.8 miles away, and I have my cursor on that location  
9 now. And we've talked about this platted community a  
10 couple times a little bit. We mentioned it was platted  
11 in 1970. The brown that you see in this image would be  
12 the homes that have been developed. The County includes  
13 the others as vacant land.

14 As you can see, though, from an existing land  
15 use standpoint, our project area within the two-mile  
16 buffer is energy development. Large parts of that,  
17 including where it says vacant land and vacant state  
18 trust land, does have solar development. So, obviously,  
19 those projects have gone through planning with the County  
20 as well, the data layers and colors just haven't caught  
21 up.

22 MEMBER KRYDER: Mr. Chairman?

23 CHMN STAFFORD: Yes, Member Kryder.

24 MEMBER KRYDER: Question for Mr. Turner.

25 MR. TURNER: Turner, yes.

1 MEMBER KRYDER: I may have missed it, but  
2 within your five-mile radius shown on the screen, what is  
3 a zoning, is -- is there a general zoning, is it  
4 completely unzoned? Help me understand that.

5 MR. TURNER: I do have a slide to speak to  
6 that, but it is zoned Rural-190, and I'll get to that  
7 explanation.

8 MEMBER KRYDER: Okay. I'll just wait then,  
9 thanks.

10 MR. TURNER: And as a point of clarity,  
11 it's a two-mile buffer, not a five-mile buffer that you  
12 see on the screen. And since you've raised the question,  
13 and I believe you're supporting agriculture, the green in  
14 the lower left part of the screen is the active  
15 agricultural in the area.

16 MEMBER KRYDER: Okay. Thank you.

17 BY MS. BENALLY:

18 Q. Mr. Turner, I'll have you go back to your prior  
19 slide, can you just wrap up that part of your testimony  
20 with your last bullet talking about existing land uses --  
21 or describing the land uses?

22 A. (MR. TURNER) Yes.

23 The various land uses that are within the  
24 two-mile radius include agriculture, transportation,  
25 solar generation, industrial, rural residential, and

1 vacant.

2 Q. Okay. Thank you.

3 Are you ready to move on to future land use?

4 A. (MR. TURNER) Yes.

5 So we talked about the Special Use Permit  
6 changing the land use to industrial, and the data on the  
7 right screen we're showing the Maricopa County future  
8 land use data layers, they -- they continue to have  
9 dedicated open space, although solar development has  
10 occurred. So, again, I don't think the Maricopa County  
11 data layers have caught up yet to all the development in  
12 the last decade out here. But what I do want to point  
13 out is the industrial use for the Redhawk Power Plant,  
14 this entire section that is coming up industrial is the  
15 Redhawk site.

16 I mentioned the Special Use Permit for that, and  
17 the color now that we see is industrial. I do want to  
18 point out the rest of the industrial area does seem to be  
19 associated with the other power generations, the other  
20 gas-fired power plants, as well as Palo Verde Generating  
21 Station. So the proposed expansion project is compatible  
22 with the current and future land uses of the Maricopa  
23 County in this area.

24 CHMN STAFFORD: I have a quick question.

25 You pointed out the nearest residence on this map, you

1 said it's 1.8 miles away from the Redhawk Plant?

2 MR. TURNER: Yes.

3 CHMN STAFFORD: How far is that residence  
4 away from Palo Verde?

5 MR. TURNER: I would think that would  
6 probably be about three miles. We can have someone  
7 measure that. It's -- I'm sorry, you wanted to see where  
8 the residences, it's actually this hashed area here up on  
9 the right edge, that's the residential. And so the  
10 nearest resident would be at this location, the  
11 intersection of 355th Avenue and Elliot Road.

12 CHMN STAFFORD: Right. But I'm kind of  
13 curious as to how close -- how close is the nearest  
14 residence to Palo Verde? Is it less than 1.8 miles or  
15 greater?

16 MR. TURNER: I don't have that answer, but  
17 it's probably about the same.

18 CHMN STAFFORD: Okay.

19 MR. TURNER: And, again, to the edge of the  
20 property or to a certain structure may, you know, have a  
21 mile difference in that calculation.

22 CHMN STAFFORD: Right. I'm just curious,  
23 because we're talking the 1.8 miles is to the edge of the  
24 property, right, for this --

25 MR. TURNER: For this, the 1.8 miles was

1 measured to the center of the expansion project, so in  
2 between -- there are eight stacks, so in between the  
3 fourth and fifth.

4 CHMN STAFFORD: And the -- and it's closer  
5 to the existing plant, then?

6 MR. TURNER: It would be slightly closer to  
7 the existing plant, yes.

8 CHMN STAFFORD: Okay. Yeah, I'm just  
9 interested to find out how close the residences are to  
10 the -- to the nuclear plant, so -- you could just follow  
11 up later with that.

12 MR. TURNER: All right.

13 CHMN STAFFORD: Thank you.

14 BY MS. BENALLY:

15 Q. Anything further on future land use?

16 A. (MR. TURNER) No, I was getting ready to jump  
17 into the zoning, if we're ready for that.

18 Q. Very good. Thank you.

19 A. (MR. TURNER) So there was a question about the  
20 zoning. Maricopa County, when they are in areas that are  
21 rural, they sometimes put large Rural-190 classification  
22 on the land. And that's the green layer that you see on  
23 the right -- uh-oh, I advanced the slide, excuse me -- on  
24 the right screen, which is APS-11, sheet 240. The green  
25 layer is Rural-190, and I'd like to -- so the zoning is

1 what the government uses to dictate the land use and  
2 restricting the usage of development of a specific site.  
3 The Rural-190 is a layer that's primary purpose is to --  
4 is required large minimum lot sizes of not less than  
5 190,000 square feet. So that is roughly 4.3 acres. And  
6 this is to discourage small lot and residential  
7 sub-development. And the principal uses that are allowed  
8 in this zoning district include farming -- both farming  
9 and non-farming residential uses, recreational uses, and  
10 institutional uses that include industrial.

11 The proposed expansion project does conform to  
12 the Maricopa County 2030 Comprehensive Plan, the Tonopah  
13 Arlington Area Plan and the County zoning ordinances for  
14 unincorporated Maricopa County at this location. And  
15 that summarizes my land use discussion.

16 Q. Okay. Thank you.

17 So let's move on to the biological resource  
18 impacts relative to special status species.

19 A. (MR. TURNER) I was getting a little bit of  
20 information on the question about how close to Palo  
21 Verde, there is, from the closest resident of this  
22 project we're calling that as 1.8 miles, it is 2.4 miles  
23 to Palo Verde from that location. But there are other  
24 homes in the northern part of this subdivision that would  
25 be closer to Palo Verde.

1 CHMN STAFFORD: Okay. Thank you.

2 BY MS. BENALLY:

3 Q. Okay. Biological, Exhibit C, I believe?

4 A. (MR. TURNER) Yes.

5 The biological resources are split between  
6 Exhibit C and D. And Exhibit C deals with the special  
7 status species. And Exhibit D with general wildlife.  
8 And I will talk about the Exhibit C now.

9 AECOM did have a biologist that visited the  
10 site. We also obtained information from the Arizona Game  
11 & Fish Department's environmental online review tool --  
12 review tool, as well as the United States Fish & Wildlife  
13 Service IPaC, which stands for Information for Planning  
14 and Consultation. Both of these provide databases for  
15 sensitive species.

16 Exhibit C deals with endangered species,  
17 protected under the -- all species protected under the  
18 Endangered Species Act, which includes endangered,  
19 threatened, and candidate species, as well as  
20 experimental populations. We also have to evaluate  
21 migratory birds, the Migratory Bird Treaty Act, as well  
22 as the Bald and Golden Eagle Protection Act.

23 I would like to point out a little bit about the  
24 project area from a natural resource standpoint. I'd  
25 like to use the right screen, which is APS-11, page 244.

1 And the purpose of this image is just to really show you  
2 the Gila River. You can see all the green is farmland  
3 associated in the West Valley down here, but the Gila  
4 River is labeled in a couple of places, it's cutting  
5 across the center of your screen and bending down south.

6 Our project is Redhawk, right here, located  
7 where my cursor is, I have a red pen flag and it is  
8 approximately five miles to the Gila River from our  
9 location. And the reason I wanted to mention the Gila  
10 River is both the Game & Fish and the Fish and Wildlife  
11 Service, the list that came back identified seven species  
12 that would require analysis in this area, and the  
13 majority of those are associated with riparian habitats  
14 and open water resources like the Gila River. The  
15 databases, the way they come back do come back for  
16 five-mile radius and sometimes larger, in this case they  
17 came back at five miles, which would grab the Gila River  
18 in that boundary, and so we analyzed those.

19 MEMBER GOLD: Mr. Chairman?

20 CHMN STAFFORD: Yes, Member Gold.

21 MEMBER GOLD: Mr. Turner, I'm not from the  
22 area. Is the Gila River an actual river with water  
23 flowing in it or is it usually a dry riverbed?

24 MR. TURNER: This section typically has  
25 water. There are reclamation facilities within Phoenix



1 that are adding water to the area, and in fact, the City  
2 of Phoenix has a tremendous program for endangered  
3 species by pumping water back into this river. And to  
4 the --

5 MEMBER GOLD: Thank you. I was just  
6 curious. Thank you.

7 MR. TURNER: So in our analysis with the  
8 endangered species, we have come to the conclusion that  
9 no threatened or endangered species habitat or the  
10 species would be present at the Redhawk or the adjacent  
11 lands around our project. It's not prevalent with the  
12 screen that I have up now, but I'll show you in a little  
13 bit, but the project site has been manipulated. We're  
14 within existing power plant property that -- where we're  
15 putting the project has a few shrubs that have just been  
16 left in place, but it's not any migratory bird habitat  
17 that we would expect someone to navigate.

18 BY MS. BENALLY:

19 Q. All right. So let's -- if you're done with  
20 Exhibit C, let's move on to Exhibit D, which is a study  
21 of general wildlife in the area.

22 A. (MR. TURNER) Correct.

23 Q. Actually, it looks like I bumped you up a bit,  
24 are you still on Exhibit C, as far as the summary of your  
25 findings?

1           A.     (MR. TURNER) I can be a little more specific  
2 with my findings. I seemed to have jumped to the  
3 conclusion a little quicker, my apologies. But potential  
4 impacts to the special status species, we don't -- we  
5 don't think will occur or are anticipated to be extremely  
6 low, short-term in duration, and mostly limited to the  
7 effects of construction activities, additional noise and  
8 lighting, but obviously, we're at a power plant, those  
9 two elements would continue.

10                   The construction and operation of the expansion  
11 project, as I previously mentioned, is not anticipated to  
12 impact the habitat of sensitive species and, therefore,  
13 we feel it is environmentally compatible.

14           Q.     Okay. Thank you.

15                   So now let's move to Exhibit D.

16           A.     (MR. TURNER) Thank you.

17                   CHMN STAFFORD: Member Hill, you have a  
18 question?

19                   MEMBER HILL: This may or may not be the  
20 space, but it is a question about lighting, because you  
21 did just talk about that. I thought it was interesting  
22 in our last hearing, which were similar facilities, that  
23 they don't plan to put lighting on the towers. And part  
24 of it was that they worked with the FAA and -- the  
25 Federal Aviation -- and they didn't feel like they were

1 necessary and they could be a distraction for wildlife at  
2 night and other things. So I just kind of wondered, you  
3 mentioned lighting in this -- in this section, can you  
4 talk about your lighting plan and its relationship to --  
5 I know it's not T&E species, but just -- it's a very dark  
6 place out there, with the exception of the nuclear  
7 facilities, so I was just kind of curious.

8 MR. TURNER: So Maricopa County did enact a  
9 Dark Sky Ordinance in 2023, I believe, and I've looked at  
10 those regulations and there's a lot about down-casting  
11 lighting, using less lighting. Obviously, we're at a  
12 power plant that has buildings that need to be lit, for  
13 safety reasons. If something breaks down at night they  
14 need to go in and fix it, there may be additional  
15 lighting, so minor streetlighting with down-casts. The  
16 stacks that you mention here are going to be 85 feet  
17 tall. The FAA requires lighting typically when it's  
18 200 feet and taller, and that also depends on location.

19 The lighting will be as minimized as  
20 possible, but does need -- we have to be able to get in  
21 there and access it at night and have safety for workers.  
22 So minimal lighting.

23 MEMBER HILL: So will the stacks be  
24 illuminated every night all the time or is it just  
25 illumination for activities on those facilities?

1 MR. TURNER: I would think that they would  
2 have to have some lighting on there for safety at the --  
3 you know, to see the towers. I'm looking at the existing  
4 facility, which is 185-foot-tall stacks, and there are  
5 lighting there. I may need to get someone else to answer  
6 that question from APS because --

7 MEMBER HILL: And I only -- I only ask  
8 because the last -- the last applicant, who was using  
9 the same facilities said that they weren't lighting the  
10 towers and I thought that was interesting because there  
11 wasn't an obligation to. And it would -- just the dark  
12 star -- dark night things were of interest. So anyways,  
13 I was just curious about that.

14 MR. TURNER: Our visual simulations, which  
15 we'll have in just a few moments does have lighting on  
16 the stacks, so you will be able to see what that looks  
17 like.

18 MEMBER HILL: What that looks like. And  
19 it's less for people, because there aren't a lot of  
20 people around here, and more for wildlife benefits, so --

21 CHMN STAFFORD: Member Fontes, you have a  
22 question?

23 MEMBER FONTES: Thank you, Mr. Chairman.  
24 Mr. Turner, in your review, did you  
25 encounter any biological impacts from construction or

1 operations within, say, I don't know, a three-mile radius  
2 of the existing facilities, to include the Redhawk  
3 current facility? Was there any or have there been any  
4 kind of issues that we should be aware of?

5 MR. TURNER: Is the question are there any  
6 wildlife issues with the existing Redhawk Power Plant?

7 MEMBER FONTES: During construction of the  
8 existing and/or operations that you're aware of.

9 MR. TURNER: The construction of the  
10 original Redhawk was over 20 years ago. In looking at  
11 that CEC, there were no biological conditions that would  
12 have dictated significant environmental concerns. A lot  
13 of times burrowing owls do congregate in areas that have  
14 looser soil and farmland with water and insects. Those  
15 might be a consideration during construction, but I  
16 didn't find any water sources here. Our project site  
17 does not have any drainages that come close to our area  
18 or provide benefit in that regard.

19 MEMBER FONTES: That's informative, but let  
20 me rephrase my question. During construction were there  
21 any issues? Not during the CEC and studies, but during  
22 construction and in operations to date have there been  
23 any issues impacting operations from biological?

24 MR. TURNER: No, I have not been able to  
25 hear any issues in my discussions with the people at the

1 power plant that I've been working at. I can ask  
2 specifically for -- to try to get your question answered  
3 better, but the answer is no, Redhawk is operating fine,  
4 you know, it's a fenced-in area trying to keep wildlife  
5 out. Obviously, there are aerial species, birds and bats  
6 that can get into equipment. That has not been an issue  
7 that has been made aware to me.

8 MEMBER FONTES: Okay. I was just checking  
9 because if it's, you know, during the EPC you're going to  
10 have a contractor do that, and I wanted to know if the  
11 previous EPC had issues that were of this  
12 characterization. That's what I'm looking for.

13 MR. TURNER: Thank you.

14 When the previous Redhawk was built, the  
15 area around Redhawk was extensively farmed, so the  
16 conditions there for certain species would have been  
17 better than they are today surrounded by solar fields.

18 MEMBER FONTES: Thank you.

19 CHMN STAFFORD: So you didn't need to  
20 relocate any burrowing owls or desert tortoises or  
21 anything?

22 MR. TURNER: Those -- there is not desert  
23 tortoise habitat in the project area, in the vicinity.  
24 They do like rocky slopes. Surveys can be performed of  
25 that. We don't believe that those will be necessary.

1 The burrowing owls, again, really need a lot more water  
2 than I saw out there. But, you know, those are, you  
3 know, part of conditions with a normal construction.

4 CHMN STAFFORD: But they weren't  
5 encountered when you built the existing plant --

6 MR. TURNER: No.

7 CHMN STAFFORD: -- so it's highly unlikely  
8 you'll encounter them on the site that's been permitted  
9 and they wouldn't have moved in and located -- taken up  
10 a -- this is not a habitat for them to occupy at the  
11 current site?

12 MR. TURNER: It's unlikely, but it is still  
13 a possibility. I have worked at other power plants that  
14 are, again, near agriculture, and as they expand, there  
15 are burrowing owls that needed to be relocated.

16 CHMN STAFFORD: So you still have to  
17 vigilant, then?

18 MR. TURNER: Yeah.

19 CHMN STAFFORD: All right. Thank you.

20 Did you have additional questions, Member  
21 Fontes?

22 MEMBER FONTES: Yeah, thanks. That's what  
23 I wanted to capture for the record.

24 But also, on the existing plant, have there  
25 been any incidents with bats? My former employer is

1 Western Area Power Administration, and we had a lot of  
2 issues with bats at substations in that part -- in that  
3 county and to the west. So has there been anything at  
4 the power plant recorded?

5 MR. TURNER: Nothing has been recorded.

6 MEMBER FONTES: Okay. Thank you.

7 Appreciate it.

8 BY MS. BENALLY:

9 Q. Mr. Turner, is there anything else on Exhibit D  
10 regarding general wildlife that you'd like to cover?

11 A. (MR. TURNER) Yeah, I don't think I have actually  
12 spoken to this slide yet, I had to field a few questions.

13 Q. Okay. Let's walk through the slide, then.

14 A. (MR. TURNER) That's fine.

15 So we have been talking about endangered species  
16 and now general wildlife, some of the bats that we were  
17 just talking about and some of the birds would fall into  
18 either of those categories.

19 We still -- still feel the potential impacts to  
20 wildlife are anticipated to be low, short-term in  
21 duration, but we do realize that there are tall  
22 structures, lines and towers and other support structures  
23 that may pose a risk to collision for birds and other  
24 flying species. Those will be designed to current  
25 standards using wildlife as a parameter in those designs.



1           The site is previously disturbed, and so we do  
2 not anticipate much native vegetation to be removed, some  
3 creosote bushes, viper sage that are sporadic in the  
4 project site, but not a predominant feature. The site,  
5 as we mentioned, is part of the active Redhawk Power  
6 Plant, and at the time I was out there it looked like  
7 some dirt moving around from one part of the plant to our  
8 project site leveling it, for independent reasons, but  
9 again, just to point out this is not habitat for  
10 wildlife.

11           So, therefore, we feel that, from a general  
12 wildlife standpoint, the project is also environmentally  
13 compatible. That ends my biology summary.

14           MS. BENALLY: Okay. So from here we move  
15 to visual resources, and we have a slide in here right  
16 after this set of slides, giving the Committee an option  
17 to go through the virtual tour again, if you think that  
18 would be helpful, if not, we can just continue our  
19 discussion on visual simulations.

20           CHMN STAFFORD: I think we are ready for  
21 the key observation points.

22           MS. BENALLY: Okay. Very good.

23           Q. So now with our shift to visual resources, let's  
24 start, Mr. Turner, about explaining how you evaluated  
25 them for this project?

1 A. (MR. TURNER) Yes.

2 We evaluated sensitive and scenic viewsheds, in  
3 and around the study area we utilized our project  
4 components for the potential impacts. And we prepared  
5 visual simulations of those areas.

6 Q. And can you describe how these visual  
7 simulations were developed?

8 A. (MR. TURNER) Yes.

9 We used -- our visual resource specialist went  
10 out and used panoramic photography. They were taken from  
11 four key observation points, again, back to sensitive  
12 viewers or sensitive viewsheds or the traveling public,  
13 in this case. And we took both daytime and nighttime  
14 photography and simulated, again, getting back to the  
15 lighting question, wanted to simulate those. And we used  
16 four key observation points. And those are located on  
17 the screen as four yellow dots.

18 KOP-1 is along Narramore Road and the railroad  
19 is just south of the railroad, it is at the bottom of the  
20 screen. And it is our closest view. It is not from a  
21 residence. It is -- that road only accesses the solar  
22 area and the existing agricultural farmland there and  
23 then it ends at Centennial Wash or turns into a  
24 four-wheel drive road at that point.

25 But we chose this location because it does

1 afford us the closest view of the site and gives us a  
2 decent perspective of what it would look like from a half  
3 a mile away. The general public could make their way  
4 down to that location.

5 KOP-2 is at the top of the screen, and it is  
6 just south of the existing Arlington Elementary School.  
7 That school is just off the screen. We went just south  
8 of the school so we weren't getting blocked by any of the  
9 buildings there. We wanted a clean shot. I do want to  
10 point out, though, it -- we'll get to the specifics, but  
11 it is, I think, 2.3 miles away and as you can see from  
12 the line of sight we're going through more than a mile of  
13 solar fields as well, and you'll be able to see that in  
14 the image.

15 KOP-3 is along Elliot Road. It's on the left  
16 side of the image. And it, too, is not at a sensitive  
17 viewer. We've been talking a lot about the residents  
18 that are to the north and east in a platted community,  
19 but there are about a dozen homes west of our power plant  
20 on Elliot Road. Those -- the nearest one is 3.4 miles  
21 away, and the furthest is about 6 miles away. They would  
22 travel Elliot Road to get in and out for any of their  
23 activities in the day.

24 I do want to point out a couple features here.  
25 We have a switchyard and a power plant, and so as they're

1 driving down Elliot Road, they would cross two power  
2 plants and a switchyard and a lot of infrastructure. Our  
3 location is taken here because we can get a shot of  
4 Redhawk at this location. So this is more from a  
5 traveling public.

6 CHMN STAFFORD: Refresh my memory, what's  
7 the power plant right below KOP-3?

8 MR. TURNER: That is Mesquite.

9 CHMN STAFFORD: Mesquite, okay.

10 MR. TURNER: And that is the Hassayampa  
11 Switchyard you see right there.

12 And then, finally, we have KOP-4, and we've  
13 talked about this location a few times. This is from the  
14 intersection of 355th Avenue and Elliot Road, and is  
15 representative of the edge of the property for the  
16 closest resident 1.8 miles away. And so now I would like  
17 to switch to the screens and we'll get to the  
18 simulations.

19 MEMBER KRYDER: Mr. Chairman?

20 CHMN STAFFORD: Yes, Member Kryder.

21 MEMBER KRYDER: Back on that previous  
22 screen, if you could for just a minute, before  
23 you -- looking at KOP-4, that's across two sets of solar  
24 fields as well?

25 MR. TURNER: Yes, sir. I forgot to mention

1 that detail. You'll definitely see those in that image.

2 MEMBER KRYDER: Okay. Because that's  
3 fairly significant. What approximate height of the solar  
4 fields, what are they 7 or 8 feet?

5 MR. TURNER: When they're stored, they are  
6 about 8 feet off the ground is my understanding, but they  
7 do tilt. There are different types. So they could be a  
8 little taller than that at certain times of the day.

9 MEMBER KRYDER: Okay. So these are active  
10 shifting?

11 MR. TURNER: I'm not 100 percent sure on  
12 that, sir, but I was just trying to give you a height  
13 that -- 8 feet is what I hear most consistently.

14 MEMBER KRYDER: Okay. Okay. That is very  
15 helpful when we get to your next set. Thanks.

16 BY MS. BENALLY:

17 Q. Mr. Turner, is there anything else you want to  
18 point out on that map that might be helpful to the  
19 Committee before you move on to the visual sims? If not,  
20 you can move right into the first visual simulation.

21 A. (MR. TURNER) I think I'm ready to move forward.

22 Q. Okay. Thank you.

23 A. (MR. TURNER) So I would like to take just a  
24 minute and -- we have two screens, I believe everybody  
25 online can see both screens as well. The screen on the

1 left is the original photography and the screen on the  
2 right is the simulation, and I'd like to take -- just  
3 because the screen on the right is closer to me, I'll use  
4 the highlighter here, I want to point out a few features,  
5 I want to call your attention to the project location map  
6 that is always going to be on the same right side. The  
7 orange location is the general location of the project  
8 facilities. We have a north arrow on there to help you  
9 get oriented, and the KOP location, which is yellow.

10 And with that yellow, there is an arrow on  
11 there -- I should mention, if you can't see the screen,  
12 these are in Exhibit E of the CEC application and our  
13 11x17 foldout.

14 CHMN STAFFORD: Yeah, if you go to APS-11,  
15 we're looking at slides 257, which is the existing view,  
16 and 258 is the simulated condition.

17 MR. TURNER: The other element I wanted to  
18 point out when we're on the right side is the narrative  
19 on the bottom. It talks about the date and time and the  
20 weather conditions, the specific location, and then what  
21 I'd like to call your attention to is the distance. In  
22 this location we are a half a mile away?

23 BY MS. BENALLY:

24 Q. Mr. Turner, so the screen that I see on the left  
25 is Figure E-2. Is the other one E-3, Figure E-3?

1 A. (MR. TURNER) Yes.

2 Q. Okay. Thank you.

3 A. (MR. TURNER) Yes.

4 So I know various consulting firms show  
5 simulations a little bit differently. The bottom image  
6 is the original photography -- again, just because it's  
7 easier on my side to point here -- the bottom panoramic  
8 shot shows the entire photography, you can see other  
9 elements in there. In this case that's, on the left side  
10 is Narramore, is a County road.

11 What we have done, though -- this is what you  
12 would see -- the bottom image is what you would see with  
13 your eye if you were a half a mile away. But because we  
14 want to show you features, we've enlarged that. So you  
15 can see a yellow box at the bottom image, that has been  
16 blown up for our conversations today. And I will just  
17 continue, the image on the left screen is undoctored  
18 photography; the one on the right shows the simulations.

19 So I'll use this to point out the proposed  
20 expansion project. You can see the eight stacks, those  
21 are 85 feet tall. The railroad is blocking some of that.  
22 We don't trespass to take our photography. And the  
23 general public would have to look through that railroad  
24 as well.

25 The existing Redhawk facility, obviously, is in

1 the image, and just for reference, those are 185 feet  
2 tall. It's not quite as obvious, but the proposed  
3 switchyard is in the background, your eyes can sort of  
4 see those are thinner metal structures that are there, so  
5 we have shown those in the simulation as well.

6 MEMBER GOLD: Mr. Chairman?

7 CHMN STAFFORD: Yes, Member Gold.

8 MEMBER GOLD: Mr. Turner, these are  
9 excellent images showing something that's so far away,  
10 it's barely visible in the horizon line. But I do have a  
11 question, not related to your project, but it's in your  
12 imagery. The lower right picture to the right of your  
13 yellow square seems to have three -- some puffs of smoke  
14 going straight up.

15 Is that the Palo Verde Nuclear Plant.

16 MR. TURNER: So we're looking to the west,  
17 and this is panoramic for almost 180 degrees, so we'd be  
18 looking to the northwest --

19 MEMBER GOLD: You'd be looking to the  
20 northwest.

21 MR. TURNER: -- I would suspect that that's  
22 Palo Verde.

23 MEMBER GOLD: Okay. Look here, see that.  
24 And how far away is that?

25 MR. TURNER: Palo Verde would, from this



1 location would, again, to the structures of Palo Verde,  
2 probably 4, 4 1/2 miles away.

3 MEMBER GOLD: Okay. And all you can see is  
4 the plumes of steam coming up. Okay. Yeah, I mean, you  
5 guys are very inclusive.

6 MR. TURNER: So this is the daytime from  
7 KOP-1. I do have nighttime photography, if we're ready  
8 to move to that.

9 BY MS. BENALLY:

10 Q. Just a point of clarification, Mr. Turner. When  
11 you were describing the zoomed-in picture, you described  
12 it as the image being "doctored," I think what you're  
13 describing is the fact that it's a zoomed-in version of  
14 the photo and not changed in any way; is that correct?

15 A. (MR. TURNER) We didn't change the sky or  
16 anything. By "doctored," I'm sorry, I meant to say  
17 "simulated," we needed to obviously simulate the  
18 facilities on there. My apologies. We did not change  
19 any cloud cover, anything like that.

20 Q. Thank you.

21 CHMN STAFFORD: I assumed when you said  
22 "doctored," you meant to add the structures that you're  
23 proposing to build.

24 MR. TURNER: Not a good word to use, that's  
25 my mistake.

1           If we're ready I'll do the nighttime from  
2 this location. So, again, the left screen is the  
3 original photography. Showing just the existing  
4 facilities, you can see the four existing turbines of the  
5 existing Redhawk Plant, and the image on the right screen  
6 shows the simulation, and again, there is the lighting  
7 that was being talked about. We went ahead and lit it at  
8 the top, to some extent.

9           You know, lighting can be good and bad for  
10 wildlife. Obviously, lighting attracts insects and bats  
11 like insects, so there are some positives and negatives.  
12 In general, though, wildlife, we would prefer not to  
13 light up the night sky, for various reasons.

14           CHMN STAFFORD: Did you testify earlier  
15 that the County passed some night -- Dark Sky Ordinance  
16 in '22?

17           MR. TURNER: It's either '22 or '23. I can  
18 look it up again.

19           CHMN STAFFORD: What does it -- what does  
20 it entail? I mean, what are the requirements set by  
21 that?

22           MR. TURNER: Again, it's more about  
23 down-casting lighting at locations. It does talk about  
24 residential and ball fields and industrial parks and,  
25 you know, lighting up parking lots and things like that.

1 Again, it's trying to limit everything, including in  
2 rural areas not lighting roadways until totally necessary  
3 from a traffic standpoint.

4 CHMN STAFFORD: So does the existing plant  
5 comply with that or was it grandfathered because it  
6 existed before they passed the ordinance?

7 MR. TURNER: I don't have that answer.

8 CHMN STAFFORD: Okay. Because I'm curious  
9 to know if that's -- if what we're looking at here is  
10 down-lighting for the existing plant. And then I guess  
11 you can tell me, from the simulation, was that down-lit  
12 or was it just the regular lights you put on these type  
13 of plants without any kind of Dark Sky Ordinance?

14 MR. TURNER: That lighting was installed  
15 well before the '22, '23 time frame.

16 CHMN STAFFORD: No, I'm talking about the  
17 simulation.

18 MR. TURNER: Oh, the simulation?

19 CHMN STAFFORD: Right. What did you  
20 simulate? Is that down-lighting? Because it looks not  
21 much lighter than the other one, so I'm just curious.

22 MR. TURNER: We tried to mirror what the  
23 Redhawk had when it's lighting. But the lower lighting  
24 down on the ground was the down-cast lighting in our  
25 simulation.

1 CHMN STAFFORD: Okay. So the top of the  
2 towers aren't -- are they have down-lit as well or just  
3 stuff closer to the ground?

4 MR. TURNER: This simulation doesn't get  
5 that deep into a specific light. We were trying for the  
6 intensity of that lighting, and that's where we came to  
7 the comparative to the existing Redhawk. And so our  
8 lighting is trying to mirror that, and that's what you  
9 see in the simulation.

10 CHMN STAFFORD: Okay. So you'll have to  
11 get back to me about whether that ordinance is going to  
12 apply to the expansion and does it apply to the existing  
13 plant.

14 MR. TURNER: Thank you.

15 CHMN STAFFORD: I would suspect not, since  
16 the ordinance came in the last year or two and the plant  
17 has been there for over 20, so --

18 MR. TURNER: I didn't jump deep enough to  
19 understand about the grandfathering clause, but I would  
20 think that most facilities would probably be  
21 grandfathered in in its future development, but I will  
22 verify that.

23 CHMN STAFFORD: And then what -- what would  
24 it take and what would be the benefit of the existing  
25 plant complying with that at this point in time?

1 MR. TURNER: You know, the night sky  
2 ordinances are so people can continue to see the stars.  
3 So the people that are out in this area, that's probably  
4 one of the reasons they moved out to that area. So I  
5 would suspect it's to help keep that dark sky capability  
6 as urban development reaches out this -- if it does reach  
7 out this far.

8 CHMN STAFFORD: Thank you.

9 MEMBER GOLD: Mr. Chairman?

10 CHMN STAFFORD: Yes, Member Gold.

11 MEMBER GOLD: Mr. Turner, along with what  
12 the Chairman is asking, when I enlarge these pictures, it  
13 looks like you've taken advantage of some modern  
14 technology. The lights on the full -- the multi-cycle  
15 plant are bright white. The lights on your future plant  
16 appear to be almost a color that insects don't see, that  
17 yellowish color. Is that, indeed, what you're planning  
18 on using to keep the insects away so it doesn't attract  
19 bats?

20 MR. TURNER: I don't believe that was  
21 specific when we were doing our visual simulations, no.  
22 I think the height of the towers there, obviously a  
23 185-foot tower needs to be lit up a little bit  
24 differently than just an 85-foot tower, so the lights, I  
25 agree with you, in this simulation seem to be a less

1 intense color.

2 MEMBER GOLD: Well, they look more, like I  
3 would say, 200 kelvins compared to 800 kelvins, you know,  
4 yellower more than white in your simulation. So I was  
5 under the impression that you took that into  
6 consideration and you're downward -- I'm looking at the  
7 light pattern, and it looks like they're obviously aimed  
8 down, at least on the stacks, and it looks like what I  
9 have in front of my house in the summer, I always put up  
10 a yellow-ish color light not to attract insects. And if  
11 that's something you were planning on, that's, you know,  
12 good, that's smart. If you don't have insects, you don't  
13 have bats, and you can suck insects into turbines, but  
14 you don't want to suck bats into turbines.

15 So it looks like whoever was doing this for  
16 you took that into consideration. Just an observation,  
17 Mr. Turner.

18 MR. TURNER: I can -- I can ask John, who  
19 did these -- he's been doing this for over 30 years, and  
20 I just didn't ask that question of him, but I can -- I  
21 can verify the lighting intensity that he used. I'll be  
22 happy to search that.

23 MEMBER GOLD: Check intensity and color.

24 MR. TURNER: Intensity and color, thank  
25 you.

1 Any other questions on KOP-1? Again,  
2 that's the closest that we'll be in these four images.

3 KOP-2 is our next location, and again, this  
4 is up by the Arlington Elementary School, and I will  
5 point out in this, on the right screen which is APS-11,  
6 slide 262. KOP-2, my highlighter is on the school  
7 itself. The KOP location is 2.3 miles, and as we've  
8 discussed, there are solar fields that are between us and  
9 the existing Redhawk, as well as the proposed site. And  
10 I will point out those solar.

11 If you look at the horizon line of the  
12 ground here, you'll see a dark layer, that is the solar  
13 field that we are looking through. So, again, that is  
14 approximately 8 feet off the ground, and as you can see,  
15 this is a distance of probably a half a mile before you  
16 get to that solar.

17 But, again, we're trying to look at the  
18 Redhawk Power Plant, and at 2.3 miles in the bottom image  
19 is what your eye would see. It's very hard to see  
20 anything at 2.3 miles. If your eye focuses on the  
21 mountain and just below it, you can see the, again, on  
22 the bottom image, it's hard to see, if you blow it up you  
23 can see it on the top.

24 Again, the simulation is on the right  
25 screen, and my cursor is at where the simulation is

1 located. If you take that highest peak and come down in  
2 front, you can sort of see the facilities. A little bit  
3 hard to see in the daytime, and we can switch to the  
4 nighttime, but we're 2.3 miles away, and I've been to  
5 this location, it is hard to see.

6           Once your eye is trained on the stacks,  
7 your eye can pull out Redhawk and the other facilities.  
8 I do have nighttime photography from here if we're ready  
9 to move to that one.

10 BY MS. BENALLY:

11       Q.    Mr. Turner, before you do that, I may not use  
12 the right terminology here, but from KOP-2 you said that  
13 is near the school; is that correct?

14       A.    (MR. TURNER) Yes. We're just south of the  
15 school property.

16       Q.    And who are the sensitive viewers that you are  
17 included in -- from that KOP?

18       A.    (MR. TURNER) Thank you, Ms. Benally.

19            Yeah, the school also has ball fields, so a  
20 community gathering area, but we are also adjacent to  
21 that platted community. There are homes there. There  
22 are kids that walk to school in that neighborhood. We  
23 met them at the public meeting. So this site is  
24 representative of the school, community activities at  
25 that location. Thank you.



1           Okay. Again, the left screen has just the  
2 Redhawk existing facility and the screen on the right  
3 shows the expansion project. It is hard -- oh, oh, hit  
4 the wrong button, excuse me. On the left screen, you can  
5 see the existing Redhawk where my cursor is but these are  
6 also existing buildings, the operation buildings and  
7 other buildings that are lit up, so from 2.3 miles away,  
8 the simulation is mixed in with the additional lighting  
9 you see from the existing Redhawk. From this angle, we  
10 are looking to the southwest, so there are certain  
11 facilities that are in front of the simulated location.

12           Q. And, Mr. Turner, the slides you have up on the  
13 screen now are marked as Figures E-8 and E-9; is that  
14 correct?

15           A. (MR. TURNER) Yes.

16           Q. Okay. And that's the simulations that are  
17 included in APS's application?

18           A. (MR. TURNER) Yes.

19           Q. Okay. Thank you.

20           A. (MR. TURNER) I'll move to KOP-3, unless there  
21 are questions from this location?

22           All right. So this one is a busy photography in  
23 daytime. This KOP-3 is located along Elliot Road. In  
24 the bottom image, you can see Elliot Road on the left  
25 side, it is a paved road. This is the Hassayampa

1 Switchyard that you see in the image, and Redhawk, the  
2 existing Redhawk, is the taller stacks, you can see two  
3 fairly easy where my cursor is located. The other two  
4 are sort of hidden behind the A-frame structures of the  
5 Hassayampa, again, the distance between those is half  
6 mile or more, but it just happens to be the angle.

7           The image on the right does have the simulation  
8 of the existing Redhawk. I'm highlighting it with the  
9 cursor now. And you can see the units, the  
10 four-unit -- there are eight turbines and four  
11 designations there. And then the switchyard is also  
12 proposed in this image. It is kind of hard to see in the  
13 daytime image with all the additional infrastructure, a  
14 little bit easier in the nighttime, and I can go to those  
15 photography next.

16           Q.    And you may have covered this already, but that  
17 is 1.5 miles from the Redhawk expansion site; is that  
18 right?

19           A.    (MR. TURNER) Thank you, Ms. Benally. Yes, it is  
20 1.5 miles. We're mainly looking south but slightly to  
21 the southeast. Thank you.

22                   And to me this is a much cleaner image. The  
23 nighttime, you don't see the impact of lighting, the  
24 switchyards don't have lighting, but the power plant  
25 does. The existing Redhawk is the taller four stacks

1 that you see, and in the image on the right, which is  
2 Figure E-13 of the CEC application, and from a slide  
3 standpoint it's APS-11, 268, has the simulation. And I'm  
4 going to point out that simulation is right there. So  
5 again, these are 85 feet tall and we're looking from  
6 1.5 miles away.

7 And, finally, we have KOP-4, this is the last  
8 visual simulation location, and this one is from the  
9 nearest resident, again, 355th Avenue and Elliot Road.  
10 And I'll just point that out, we're looking to the  
11 southwest across newly installed solar field, and  
12 this -- in this image that solar field is much closer, so  
13 you can see them in the daytime. It is that darker  
14 layer, you can obviously see the creosote bush in the  
15 foreground, and then as you get to the property there you  
16 begin to see the solar panels.

17 Those are not part of the project. Those are  
18 not part of the APS project we're talking about. But  
19 they do block part of the view. If you look at them, you  
20 can see even the existing Redhawk is blocked. The left  
21 screen, which is Figure E-14, has the existing view. And  
22 the screen on the right, which is E-15 has the  
23 simulation. And I will point to that now.

24 Again, from this distance, the 8-foot-tall solar  
25 panels are blocking a large portion and you're just

1 seeing the tops of the eight stacks. And so it's hard to  
2 see, again, from 1.8 miles away, but the simulation also  
3 has the proposed expansion switchyard as well.

4 I do have nighttime from this location. And  
5 this image was taken on a hazy night. You do have a  
6 little bit of a glow there. The Redhawk existing plant  
7 is on the left screen and the creosote bush are blocking  
8 a little. You don't really see the solar panel at night.  
9 And the image on the right does have the Redhawk  
10 expansion project simulated. Again, only the tops of the  
11 towers are really capable of being seen due to the height  
12 and the distance at this location. If your eye can go  
13 between the left screen and the right screen, there is a  
14 little bit more light projected at that location, and  
15 really all my eye sees are the -- just a little bit  
16 thicker glow at this point.

17 CHMN STAFFORD: At the bottom, that's the  
18 panoramic view?

19 MR. TURNER: Yes, sir. And we're  
20 looking -- it's not quite as prevalent in the nighttime,  
21 so I'm going to go back to the daytime. We're looking  
22 down Elliot -- we're at the intersection, the -- on the  
23 E-15 screen, the right screen, if we're looking at the  
24 bottom panoramic shot, you see two roads, the road  
25 heading on the right -- on the left side heading south is

1 355th Avenue. The other paved road is Elliot Road, which  
2 services two different power plants as well. And so in  
3 the nighttime imagery, I believe you were looking at that  
4 bottom right and --

5 CHMN STAFFORD: Yeah, what is that?

6 MR. TURNER: That is additional -- that's  
7 Mesquite and maybe part of the Palo Verde -- excuse me,  
8 the Arlington Valley Power Plants.

9 CHMN STAFFORD: That one looks -- is  
10 further away, it looks brighter than Redhawk.

11 MR. TURNER: I was thinking through that as  
12 well and it may be just the straight shot of Elliot Road  
13 where you don't have any solar panels and other  
14 vegetation and it may be different lighting as well that  
15 was used.

16 MEMBER KRYDER: Mr. Chairman?

17 CHMN STAFFORD: Yes, Member Kryder.

18 MEMBER KRYDER: Is -- Mr. Turner, is this  
19 the view of the nearest resident?

20 MR. TURNER: Yes, sir.

21 MEMBER KRYDER: Okay. Thank you. I wanted  
22 that to be clarified in the record.

23 MR. TURNER: The nearest resident was built  
24 in 2017. I misspoke the first day, I said 2016. That  
25 community, as we mentioned, had about six or so homes

1 when Redhawk was constructed. And it has -- well, we'll  
2 talk more in our public involvement aspect, but seems to  
3 be about 200 homes and spaced out fairly far apart where  
4 they can.

5 CHMN STAFFORD: These are at least  
6 acre-sized lots, correct?

7 MR. TURNER: Correct. It's Rural-43, which  
8 is an acre-sized lot.

9 MEMBER GOLD: Mr. Chairman?

10 CHMN STAFFORD: Yes, Member Gold.

11 MEMBER GOLD: Just a quick question. Those  
12 on the lower -- that screen over there.

13 MR. TURNER: Yes, sir.

14 MEMBER GOLD: That power plant has bright  
15 white lights, when was it built?

16 MR. TURNER: Where or when?

17 MEMBER GOLD: When?

18 MR. TURNER: I don't have the specific  
19 date, but looking at aerial imagery, it was built before  
20 Redhawk.

21 MEMBER GOLD: Okay. So that didn't have  
22 the same restrictions that you have, it looks like you're  
23 taking into account, because that thing's farther away  
24 and it's far brighter than your plant.

25 MR. TURNER: There are two power plants

1 that are accessed off Elliot Road. You may be seeing  
2 that combined light from two facilities. I don't -- that  
3 was not part of our -- we didn't simulate anything there,  
4 that's just the existing conditions for that, but I agree  
5 with you it does seem brighter than the Redhawk --

6 MEMBER GOLD: Well, it looks like you're  
7 doing a much better job. Thank you.

8 CHMN STAFFORD: Well, if it's Mesquite, it  
9 was -- the CEC was granted in 2000, in December of 2000,  
10 so it would have been built within a couple years after  
11 that, but close to the same time as Redhawk, I think.

12 MR. TURNER: I can see construction of that  
13 one in the aerial imagery before Redhawk.

14 MEMBER KRYDER: Mr. Chairman?

15 CHMN STAFFORD: Yes, Member Kryder.

16 MEMBER KRYDER: Mr. Turner, could that be  
17 because of the color of the light in the lower right-hand  
18 corner that it appears to be brighter that it might be a  
19 different kelvin rating?

20 MR. TURNER: There's a lot of things that  
21 could make that lighting. There could be a truck with  
22 its bright lights coming down Elliot Road.

23 MEMBER KRYDER: Boom. Never thought of  
24 that.

25 MR. TURNER: Part of that looks a little

1 bit more intense than others, and I'm wondering if  
2 there's a vehicle down there as well.

3 MEMBER GOLD: Mr. Chairman?

4 CHMN STAFFORD: Yes, Member Gold.

5 MEMBER GOLD: Yeah, when you enlarge the  
6 lower screen, that's exactly what it looks like. Thank  
7 you.

8 BY MS. BENALLY:

9 Q. Mr. Turner, are you ready to move on to  
10 summarizing your conclusions?

11 A. (MR. TURNER) Yes.

12 The image on the right screen is from KOP-1,  
13 that closest view of half a mile away just to, again,  
14 show you what it would look like constructed. The lines,  
15 forms, colors, and textures, and scale of the expansion  
16 project will repeat those of the existing infrastructure  
17 development.

18 The construction and operation of the expansion  
19 project is not anticipated to impact the general views in  
20 the area from sensitive viewers, such as the school  
21 2.3 miles away, or the residential neighborhood with its  
22 closest resident 1.8 miles away, and therefore, we feel  
23 it is environmentally compatible with daytime and  
24 nighttime visual simulations.

25 Q. So I think you are ready to move on to cultural



1 resources?

2 A. (MR. TURNER) Yes.

3 Q. So let's just start at this element of the  
4 discussion or testimony by describing your evaluation.

5 A. (MR. TURNER) Yes. The proposed expansion  
6 project, as we have said, is located within the existing  
7 Redhawk Power Plant, which had intent -- was intensively  
8 survey -- surveyed for cultural resources in 2000, in  
9 conjunction with that construction project. We did  
10 perform a current database search, and to be honest, my  
11 company also did the cultural resource survey back in  
12 2000, so we have specific knowledge of the previous  
13 research.

14 Q. Mr. -- Mr. Turner, when you say you did the  
15 previous research in 2000, was that for the original  
16 Redhawk Plant?

17 A. (MR. TURNER) Yes, from a cultural resource  
18 standpoint.

19 Q. Thank you.

20 A. Dr. Gene Rogge was the lead archaeologist at  
21 that time and is still with our company and lead  
22 archaeologist today.

23 The cultural resource assessment indicated that  
24 there were no known historic sites or structures or  
25 archaeological sites in the expansion project site. The

1 survey found no cultural resources in the expansion site,  
2 which has been intensively farmed for over 50 years  
3 before it became a power plant.

4 CHMN STAFFORD: So how much -- what  
5 percentage of the existing site was surveyed before the  
6 original plant was built?

7 MR. TURNER: It was 100 percent pedestrian  
8 survey.

9 CHMN STAFFORD: Okay. So at the expansion  
10 the whole thing has already been covered then?

11 MR. TURNER: The expansion project was  
12 covered, skipping ahead a little bit in my discussion,  
13 obviously SHPO has to make a ruling on that to verify  
14 that they agree that the previous survey is still  
15 acceptable today, and have information on that as well  
16 from a trans- -- typically, it's the distance apart from  
17 the transects, and the transects were done to the current  
18 standards today, just happened to fall in that.

19 CHMN STAFFORD: Okay. So you're going to  
20 get to -- so SHPO's concurrence is coming up in a slide?

21 MR. TURNER: We'll talk about that.

22 CHMN STAFFORD: Excellent.

23 MR. TURNER: The survey found no cultural  
24 resources in the expansion project site. I just  
25 mentioned that area before it was a power plant was

1 agricultural for several decades. In our research, the  
2 railroad, the Union Pacific Railroad, which was called  
3 the Southern Pacific Railroad Phoenix Mainline, is  
4 eligible for the Arizona Registry of Historic Places,  
5 it's a half a mile away. However, the setting of the  
6 railroad has been substantially altered by prior  
7 construction, as well as the electric generation  
8 facilities in the area.

9 The proposed expansion project will not  
10 substantially diminish the historic -- historic integrity  
11 of the railroad. And the expansion project is unlikely  
12 to have any adverse proximity impacts on cultural  
13 resources within one mile of the expansion site, and this  
14 is due to factors such as physical change or landscape  
15 changes or increased noise.

16 In summary, the previous survey, as well as  
17 our database search and our current report that is  
18 available, is considered adequate for -- for concluding  
19 that the proposed expansion project will not  
20 substantially alter or diminish any properties listed or  
21 eligible for listing on the Arizona Registry of Historic  
22 Places and is, therefore, environmentally compatible.

23 And I would like to then -- now talk about  
24 the SHPO piece.

25 BY MS. BENALLY:

1 Q. And, Mr. Turner, the letter that -- well, let me  
2 back up a little bit. Did APS consult with SHPO in this  
3 matter?

4 A. (MR. TURNER) Yes.

5 Q. And APS sent a letter to SHPO, which is marked  
6 as APS-19; is that right?

7 A. (MR. TURNER) That is correct.

8 Q. Okay. If you'd walk us through that and also  
9 include what your next steps are -- APS's next steps are  
10 with regard to consultation with SHPO.

11 A. (MR. TURNER) We are following the ACC -- ACC  
12 SHPO consultation checklist from September '22, I  
13 believe, which requires cultural resource report and a  
14 letter to be sent to SHPO. That did occur, and we have  
15 reached out to SHPO and verified that they have received  
16 our consultation. They received it on August 5th. We  
17 have a SHPO consultation number, it's SHPO-2024-0832.  
18 And --

19 CHMN STAFFORD: Say that one more time. I  
20 didn't start writing fast enough.

21 MR. TURNER: I'm sorry. SHPO-2024-0832.  
22 And they have acknowledged receipt of our package, and  
23 they are reviewing. It has not been 30 days yet, so we  
24 would anticipate September time frame that we would  
25 receive a letter back. That letter would -- our

1 recommendations in the letter, Ms. Benally mentioned it's  
2 A-19, our recommendations in that letter was that there  
3 was no additional mitigation measures, obviously there's  
4 some standard procedures when digging in Arizona about if  
5 artifacts are found or bodies are found, there are  
6 specific restrictions, and you stop work at those  
7 locations.

8                   Beyond that, we do not feel there are any  
9 other elements with cultural resources that SHPO would  
10 want to see in any construction element.

11                   CHMN STAFFORD: So you expect their letter  
12 to be in concurrence with your assessment?

13                   MR. TURNER: We expect them to be in  
14 concurrence, but we don't have that letter back just yet.

15                   CHMN STAFFORD: Right.

16                   Yes, Member Drago?

17                   MEMBER DRAGO: Mr. Turner, I might have  
18 missed it, but is that letter in the documents?

19                   MR. TURNER: APS -- A-19 -- or 19, I  
20 believe.

21                   MEMBER DRAGO: Thank you.

22                   MR. TURNER: Do you have any other  
23 questions, from a cultural resource?

24                   (No response.)

25 BY MS. BENALLY:

1 Q. Did you state your conclusion on environmental  
2 compatibility with cultural resources?

3 A. (MR. TURNER) Yes, I did.

4 Q. Okay. Great. Thank you.

5 All right. So we are now on to recreation.  
6 Would you cover that element with the Committee today?

7 A. (MR. TURNER) Yes.

8 Recreation is part of the CEC application as  
9 Exhibit F. So AECOM conducted inventory of the existing  
10 and planned recreation sites and opportunities that are  
11 around Redhawk. We also -- I should mention that the  
12 Redhawk facility will be enclosed and not open to the  
13 public for any recreation opportunities as well.

14 In the general vicinity our analysis concluded  
15 that there are a few recreational resources within 10  
16 miles of -- of our facility. Let me get my notes better.

17 MEMBER KRYDER: Mr. Chairman?

18 CHMN STAFFORD: Yes, Member Kryder.

19 MEMBER KRYDER: Question for Mr. Turner,  
20 you say it will be -- the public will not have any access  
21 to the Redhawk facility, did I get that right?

22 MR. TURNER: Yes, sir.

23 MEMBER KRYDER: Because it will be  
24 completely fenced, or help me understand how you are  
25 policing that?

1 MR. TURNER: Yes. The Redhawk facility  
2 does have a fence around the entire property with a guard  
3 shack, so anybody coming up would have to drive through.  
4 The only reason I mention that is because sometimes with  
5 transmission lines, there are recreation trails that  
6 utilize them for a mile, you know, as a cut-through or  
7 something. This facility does not have any recreation  
8 opportunities in this area.

9 MEMBER KRYDER: And the -- that's, what, an  
10 8-foot with razor wire or what kind of a fence is it?

11 MR. TURNER: I remember a big fence when I  
12 went out there, my apologies.

13 MEMBER KRYDER: You couldn't get over?

14 MR. TURNER: I'm getting kind of old, I  
15 don't think I would scale it.

16 MEMBER KRYDER: Okay. That's fine. Thank  
17 you.

18 CHMN STAFFORD: From the photos it looks  
19 like chain link. You can't see what kind of wire is on  
20 top, or if any.

21 MEMBER KRYDER: Since you guys are in the  
22 electric business, I thought maybe --

23 MR. TURNER: All right. We're talking  
24 about recreation. And Redhawk is located with a red area  
25 where my cursor is. And I believe that just for

1 reference here I'm showing two miles just to help your  
2 eye. The Gila River has two wildlife recreation areas.  
3 One is for recreation and one is for wildlife viewing.  
4 These are the Powers Butte Recreation Area and the  
5 Arlington State Wildlife Area. They are accessed from  
6 State Route 85, which is on the right side of the screen.  
7 Also along -- and that access is on the south side of the  
8 Gila River.

9 In addition, the Buckeye Hills recreation  
10 area is about 12 miles away, it has recreation trails and  
11 picnic camp- -- grilling opportunities, mainly for  
12 travelers on State Route 85. I have been to that  
13 location, I cannot see Redhawk from that location. But  
14 those are the three wildlife -- or excuse me --  
15 recreational opportunities for the traveling public and  
16 the regional population to get out.

17 BY MS. BENALLY:

18 Q. Mr. Turner, when we look at this map I always  
19 find it difficult to identify the Gila River. Can you  
20 point that out again?

21 A. (MR. TURNER) My apologies. Natural resource  
22 guy, my eye picks it up right away.

23 But the Gila River is -- has several braids in  
24 this location, it is just south of the farmland and  
25 before the Buckeye Hills, where all these recreation



1 areas are. So the Gila River is where my cursor is  
2 going, and it's heading down to Gila Bend at that  
3 location.

4 Q. Thank you.

5 A. (MR. TURNER) Our -- as we mentioned, our project  
6 does not have recreational facilities in or adjacent to  
7 the area. The furthest are on the other side of the Gila  
8 River. Our project and the proposed expansion project  
9 will not have any effects on parks or recreation  
10 facilities within the expansion project area, and  
11 therefore, it is environmentally compatible.

12 MEMBER HILL: Mr. Turner?

13 MR. TURNER: Yes.

14 MEMBER HILL: Oh, I'm sorry.

15 I agree with your conclusion, but I do  
16 think you mentioned earlier the school has some soccer  
17 fields, maybe some community areas. I would just suggest  
18 that those are also potentially recreation facilities. I  
19 wondered if you looked at --

20 MR. TURNER: This is true.

21 MEMBER HILL: -- those kinds of things --  
22 other things that we might have missed. I don't disagree  
23 with your conclusion, I just wanted the record to reflect  
24 that.

25 MR. TURNER: Thank you for -- I didn't mean

1 to skip over that. As soon as my slide came up, I  
2 focused on the Gila River, but you're right, the school  
3 has -- appears to be maybe two baseball fields and a  
4 soccer field. It may -- it may just be for school  
5 activities, but it did have some lighting, so I figured  
6 maybe community events may occur out there as well. And,  
7 again, that school is about 2.4 miles away. Thank you.

8 BY MS. BENALLY:

9 Q. Okay. So now we get to Exhibit H which relates  
10 to existing plans of the jurisdiction and I believe  
11 Maricopa County is the only affected jurisdiction in this  
12 Redhawk expansion area. Can you walk us through the  
13 analysis and the conclusions for Exhibit H?

14 A. (MR. TURNER) Yes, one second, please.

15 Yes. As part of the land use efforts  
16 we -- Maricopa County's Vision 2030 Comprehensive Plan is  
17 the managing document that helps in those land use  
18 decisions and zoning. So we are in unincorporated  
19 Maricopa County. We did send a letter to Maricopa County  
20 requesting information on any existing and planned  
21 developments. Our research with Maricopa County did not  
22 find any other community, you know, large residential  
23 development or any other large buildings that are going  
24 on at this time in the area.

25 But we did send a letter, that letter -- we sent

1 a letter to the County -- Maricopa County's Planning and  
2 Development Department. That letter is on the right  
3 screen, which is APS-11, 288. We did not receive a  
4 response to our letter for Exhibit H, which is asking for  
5 additional plans. And that is my summary.

6 MS. BENALLY: Okay. So then that takes us,  
7 if there aren't any questions from the Committee, we'll  
8 move to noise. Mr. Derstine will work with Mr. Turner on  
9 this segment.

10 BY MR. DERSTINE:

11 Q. Ms. Benally asked me to handle the noise  
12 analysis. She said I am loud frequently, and so I'm  
13 better suited to handle this. I'm not sure how to take  
14 that, but I'll do it nonetheless.

15 Mr. Turner, the Committee heard testimony in  
16 relation to the Project Bella case concerning the noise  
17 modeling that was done for that project. This project  
18 you did your own noise modeling or had folks within your  
19 company perform that noise modeling.

20 Do you want to lay the foundation for the  
21 modeling analysis that was performed, please?

22 A. (MR. TURNER) Sure, happy to.

23 AECOM did prepare a site-specific noise analysis  
24 of the proposed expansion project. This was included as  
25 Exhibit I in the CEC application. We collected baseline

1 noise measurements on December 12th and December 13th of  
2 2023. The image on the right shows those locations. We  
3 had long-term and short-term locations, and if we look at  
4 the right screen, which is APS-11, page 299, we can look  
5 at the legend there, the yellow microphone symbol are the  
6 long-term noise measurement locations, and the blue  
7 microphone are the short-term noise locations, and I will  
8 get into those discussions now.

9 In general --

10 CHMN STAFFORD: I think that was slide 290  
11 you were just on.

12 MR. TURNER: It was 290, my apologies.  
13 Thank you.

14 The vacant -- excuse me -- from a noise  
15 analysis standpoint we do look at land use, and land use  
16 in the project vicinity is mostly vacant land and energy  
17 generation through power plants, as well as solar. There  
18 are areas of limited residential development in the  
19 project vicinity. We've pointed those out before, but I  
20 will do it again. I'm using the right screen, which now  
21 APS-11, 292, and the nearest resident is at LT-2, where  
22 my cursor is with the long-term measurement.

23 The project site and the nearest noise  
24 sensitive receivers are located wholly within Maricopa  
25 County, in unincorporated Maricopa County. And Maricopa

1 County does have noise ordinances, but they do not define  
2 limits of noise emitted by industrial land uses.  
3 Additionally, noise from power plants is exempt from the  
4 provisions of Maricopa noise ordinances during normal  
5 operations.

6 Because Maricopa County does not set the  
7 standard here for us, we have utilized the U.S. EPA's  
8 1974 guidance, which is the -- called a levels document.  
9 That document also is -- is fairly old when you look at  
10 that and say 1974, but also --

11 MEMBER HILL: It's literally my lifetime,  
12 so I'm just kind of --

13 MR. TURNER: I'm trying to find my page  
14 here and I have -- the HUD also has a 2009 document, and  
15 we have referenced both of those. Both of those  
16 documents use a day/night sound level of 55 decibels or  
17 less for acceptable exterior noises. So if you're  
18 sitting on your back porch, they expect, from those  
19 federal agencies, they would expect 55 decibels or less.

20 In addition, they also set interior sound  
21 levels, again, this is an average of day and night, they  
22 set those interior sound levels at 45 decibels, and  
23 they're not restricting what you do in your house,  
24 they're restricting the noises that come through your  
25 windows and walls into that space, not being greater than

1 45 decibels.

2                   And so, therefore, we have taken those  
3 day/night levels as our standard for analysis, and we'll  
4 move into that now. I mentioned both long-term and  
5 short-term monitoring locations. The long term were for  
6 24 hours. Again, those are the yellow locations on the  
7 figure on the right. LT-1 is at a sensitive receiver.  
8 LT-2 is at a sensitive receiver. LT-3, which is just  
9 above Redhawk, and I'll point that one out, so Redhawk is  
10 outlined in the blue area, and we put a monitoring,  
11 24-hour spot just outside of Redhawk's gates to get the  
12 sound level from Redhawk.

13 BY MR. DERSTINE:

14           Q.    When you said they're a sensitive receiver, what  
15 are they?

16           A.    (MR. TURNER) In this location, they are  
17 residents.

18                   And we also did short-term noise measurements.  
19 Those are called out in the blue colors.

20                   CHMN STAFFORD: Wait, you said at LT --

21                   MR. TURNER: LT-3 --

22                   CHMN STAFFORD: -- 3 is residents?

23                   MR. TURNER: No, sir. LT-3 is not at a  
24 residence, it is outside of the Redhawk facility --

25                   CHMN STAFFORD: Okay. LT-2 is where the

1 residences are?

2 MR. TURNER: LT-2 and LT-1 are both  
3 residents.

4 CHMN STAFFORD: Okay.

5 MR. TURNER: Short-term 1, 2 and 3, which  
6 are the blue colors are also at residents, and ST-1 is up  
7 near the school as well. We're in that community up  
8 there. The short-term used both daytime and nighttime  
9 measurements of about 20 minutes.

10 CHMN STAFFORD: Yes, Member Hill?

11 MEMBER HILL: And, just for the record, the  
12 measurements that you took assume that all units are  
13 firing at the same time?

14 MR. TURNER: We're not to that piece yet.  
15 We're --

16 MEMBER HILL: Okay.

17 MR. TURNER: We're just collecting baseline  
18 information at this point. So let me -- the next piece  
19 is baseline, what we're getting, and then we'll get into  
20 the analysis.

21 MEMBER HILL: Okay. Sorry.

22 MR. TURNER: We've mentioned the long-term  
23 and short-term. From those, the second bullet is where  
24 I'm reading now, we did gather that the existing  
25 conditions ranged from a 39- to 64-decibel level. Again,

1 this is the collection average of day/night. And I  
2 wanted to point out, we mentioned a 64 is collected, and  
3 that was collected at LT-1, and I'd like to point that  
4 out.

5 Because we do have several power plants in  
6 the area, noise can come from several different areas.  
7 LT-1 is a half a mile from the Arlington Valley Gener- --  
8 Power Plant, and therefore, we believe the 64-decibel is  
9 more attributed to that location. Our noise specialist,  
10 who was out on the site, in their notes that they take,  
11 mentioned that the dominant sources from all of these  
12 locations is roadway traffic noise. And then the  
13 residential noises of dogs and other things. But did  
14 comment that at LT-1 and LT-2 that they could hear energy  
15 production to some -- in the noise sound levels.

16 Now we'll get into the analysis piece. So  
17 we've established the existing conditions -- yes, sir?

18 CHMN STAFFORD: So you said LT-1 and LT-2,  
19 I would imagine LT-3 you would hear it all the time too.

20 MR. TURNER: Yes, my apologies. We would  
21 hear it, but it's not a sensitive receiver. My  
22 apologies, my context was for the sensitive receiver.

23 CHMN STAFFORD: Okay. Okay.

24 MR. TURNER: Ironically, LT-3 did not have  
25 a higher level than LT-1, though.



1 All right. AECOM used the Cadna-A noise  
2 prediction model from 2023. It was used to estimate the  
3 sound from the aggregate project operations and predict  
4 the sound pressure levels at various distances from the  
5 project. This analysis took in the specifications from  
6 the equipment that is being used. It also took into  
7 effect land or other buildings in the general vicinity,  
8 as well as the topography of the area.

9 BY MR. DERSTINE:

10 Q. Mr. Turner, let me have you back off on the gas  
11 pedal a little bit and slow down for the court reporter,  
12 I see her --

13 A. (MR. TURNER) My apologies.

14 Q. Firing away there.

15 So, please.

16 A. (MR. TURNER) All right. Thank you.

17 We mentioned the nearest resident 1.8 miles  
18 away. Our analysis looked at two different scenarios,  
19 scenario A and scenario B. Scenario A is the existing  
20 Redhawk facility, the two -- two units, four stacks that  
21 we've been looking at, and we assumed maximum production  
22 out of those for the noise analysis. As we have heard  
23 from others, including Ms. Carlton, maximum production  
24 from other permitting restrictions probably wouldn't  
25 exist. We've max- -- we've used the maximum levels.

1 Scenario B would -- does include the existing facilities  
2 at maximum intensity, as well as the proposed facility,  
3 the eight turbines all being run at maximum  
4 facility -- capabilities.

5 And so these figures that are on the screens now  
6 are the two scenarios, the one on the left screen, which  
7 is shown as Figure 7, is the existing Redhawk Power Plant  
8 and its noise contours. It's a little far from me, but  
9 I'm going to try to highlight some things.

10 Again, many of you heard Project Bella last week  
11 and have sound levels -- I'll talk about sound levels and  
12 what we hear in just a moment. We're showing multiple  
13 colors on the center of this screen. They radiate from  
14 more intense in the center to less intense in the outer  
15 colors. You can see several of the facilities inside.  
16 You can see the grouping of the two stacks as two tight  
17 circles. And just to the right, the east of that, you  
18 see a larger circle with two yellow lines. Those are the  
19 cooling towers of the existing facility. Those have  
20 noise. Those have been captured as well.

21 The noise contour lines -- so our number that  
22 we're tracking today is the 55-decibel, we want to make  
23 sure we're staying below that -- that color is the yellow  
24 color, so 55 decibels. 60 decibels is the orange-ish  
25 color. And then 55 is the yellow, and the green, the

1 outer color, is 50.

2 But I also want to point out the right screen,  
3 let me -- we'll get to -- we'll get to specifics in just  
4 a moment, but I want to point out the expansion projects.  
5 If you look at the left screen you saw two circles --  
6 small circles and one large circle. Now on the right  
7 screen, which is APS-11, 298, you can see the expansion  
8 project is proposed as well. And if your eye is attuned  
9 to the two screens, you can see the red color change at  
10 the southern boundary to capture that area.

11 But as from a -- the green contour line, the 50  
12 decibel line didn't really change much between those two  
13 images. I'd like to now draw your attention to the white  
14 boxes that you see on both screens. There are four of  
15 them. They are the same on both screens. They are the  
16 residents, the sensitive receivers, "R" stands for  
17 residents, and we have them at four locations. And the  
18 left screen shows what the predicted noise level from the  
19 Redhawk facility is, on the left at those locations.

20 My eye cannot -- oh, yes I can, 42 -- I'm  
21 looking at R-1 on the far left screen. I'm having a hard  
22 time seeing the numbers, my apologies.

23 CHMN STAFFORD: It looks like 42.6.

24 MR. TURNER: Thank you, I appreciate that.

25 I think the take-home message is that none of these

1 sensitive receivers have we increased by 1 decibel.  
2 We're at a .2 to .4 range of a decibel increase at these  
3 receivers, which are 1.8 miles away being the closest and  
4 the other's about 3.

5 CHMN STAFFORD: I have a quick question  
6 about R-1. The decibels there, the 42.6 in the first  
7 on -- the 42.6 on 297 and the 43.3 on 298, is that just  
8 measuring the noise from Redhawk or does it also include  
9 the noise from, is it Arlington Valley, which is directly  
10 south of that?

11 MR. TURNER: Thank you for that question.

12 We are predicting Redhawk only, so if  
13 Redhawk was the only operator in this valley, R-1, which  
14 is over 3 miles away, would have a sound level of 43.3.

15 CHMN STAFFORD: Which would be completely  
16 obscured by the sound coming from Arlington Valley, which  
17 I'm assuming is going to be probably closer to 55 or 60?

18 MR. TURNER: It's a half a mile from that  
19 particular noise receptor.

20 CHMN STAFFORD: All right.

21 MR. TURNER: So I've mentioned a  
22 1 decibel -- less than a 1 decibel increase at these  
23 sensitive receivers. Our human ear can perceive about a  
24 3 decibel change, so the people at these locations  
25 probably would not perceive a change from a noise level

1 at this point.

2 Do I need to talk about the sound levels?

3 I know you guys have heard different --

4 CHMN STAFFORD: Member Hill has a question.

5 MR. TURNER: Okay, I'm sorry. Yes.

6 MEMBER HILL: No, that's fine.

7 Curiously, I note that R-4 goes down?

8 MR. TURNER: I can see this screen at 42

9 with -- which is the --

10 MEMBER HILL: Oh --

11 MR. TURNER: -- 298, I believe it's gone

12 up --

13 MEMBER HILL: -- I misread it. I flipped

14 -- I was flipping back and forth.

15 MR. TURNER: It looks like it's gone up 3

16 decibels --

17 MEMBER HILL: Yeah. Yeah.

18 MR. TURNER: -- at that location.

19 MEMBER HILL: Okay.

20 MR. TURNER: Excuse me, .3 decibels.

21 MEMBER HILL: .3, correct. Correct. That

22 was my only question. So I misread it, apologies.

23 MR. TURNER: I have a table up that's also

24 from the report. It's the summary of what we just talked

25 about, and at this scale we're showing the noise levels

1 at 43. We're not showing the .2, .4. Again, these are  
2 all a minimal noise increase from the existing Redhawk.  
3 So therefore, we believe minimal impacts are expected due  
4 to the operation of the eight new units at Redhawk Power  
5 Plant and, therefore, we feel it's environmentally  
6 compatible.

7 And again, I'd like to say that our  
8 modeling, the contours you saw, was worst-case scenario  
9 with all of those turbines moving.

10 CHMN STAFFORD: Thank you.

11 Member Fontes, you have a question?

12 MEMBER FONTES: Thank you, Mr. Chairman.

13 And you can appreciate we're sensitive to  
14 noise and visual, based upon the other hearings that  
15 we've had to do in the past, I'll call it a quarter.

16 Mr. Derstine, I don't know if this is an  
17 appropriate time, but at some point could somebody walk  
18 us through design and how they factored into the design  
19 addressing noise on things like the combustion inlet  
20 filters? The exhaust stack mitigation noise, which uses  
21 a shroud of the piping system and the air cool condenser?  
22 Those are the major issues that we typically see the  
23 noise, and I understand this is a rural area, but I want  
24 to capture that for the record.

25 And then a last request, you did make some

1 modifications of the peaker plant in West Phoenix on the  
2 install there, and I want to know if those were taken --  
3 what were those and how they were taken into account for  
4 the design here. So, again, related to noise, not the  
5 studies, but actual into the design how we factored those  
6 in is what I'm looking for to capture for the record.

7 Thank you.

8 MR. DERSTINE: I'm looking across the room  
9 at our brain trust over there, and someone is going to  
10 dig into those answers and we'll be prepared to respond  
11 to those maybe at the next break.

12 CHMN STAFFORD: I think now is a good time  
13 for a break. We've been going for about 90 minutes and  
14 I'm sure Robin is ready. So let's take a 10- to  
15 15-minute recess.

16 We stand in recess.

17 (Recessed from 10:39 a.m. until 11:16 a.m.)

18 CHMN STAFFORD: All right. Let's go back  
19 on the record.

20 Mr. Derstine.

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

22 Q. Mr. Turner, I think we wrapped up, but I want  
23 you to add anything to your noise conclusions and  
24 analysis.

25 Did we cover your final noise conclusions?

1 A. (MR. TURNER) We did finish the noise  
2 conclusions. I have one slide sort of summarizing all  
3 the studies I've just discussed.

4 Q. Well, give us that summary, please.

5 A. (MR. TURNER) So we've just talked about land  
6 use, biology, cultural, visual, the project does conform  
7 with applicable management plans, as we discussed with  
8 the land use discussions. The project is located within  
9 industrial zoned land within the existing power plant  
10 project. It is adjacent to the existing facilities.

11 It results in minimal impacts to the existing  
12 and planned land uses, recreation, visual, noise,  
13 cultural, and biological resources. This project is  
14 environmentally compatible. We have not talked about  
15 public involvement. We'll be talking about that in just  
16 a little bit. I just wanted to wrap up the physical  
17 sciences.

18 CHMN STAFFORD: Thank you.

19 BY MR. DERSTINE:

20 Q. As part of your discussion on the visual impacts  
21 for the project there was a question about the Maricopa  
22 County's Dark Sky Ordinance, and whether or not the  
23 existing plant is in compliance with that.

24 Did you do any digging and do you have an answer  
25 for that?



1 A. (MR. TURNER) I have been digging into the  
2 regulations. The restriction -- the Maricopa County  
3 zoning ordinances were in chapter 11 is where the  
4 lighting elements come into play. The project has -- or,  
5 excuse me, the zoning ordinances restrict certain types  
6 of lighting, and as a project is being approved, they  
7 have to provide that documentation as part of their  
8 approval process.

9 So I would assume the existing Redhawk facility  
10 had to go through that facility -- that process and the  
11 lighting obviously would be in compliance.

12 Q. And the other plants that you identified that  
13 are in proximity to Redhawk, Mesquite, Arlington Valley,  
14 they have similar lighting; is that correct?

15 A. (MR. TURNER) They would have had to have gone  
16 through a similar process with the County as they were  
17 being approved.

18 Q. Okay. And then as to the expansion project,  
19 Mr. Van Allen, do you want to speak to what's been spec'd  
20 or what will be spec'd for the expansion project with  
21 regard to lighting and whether that will comply with the  
22 applicable ordinance?

23 A. (MR. VAN ALLEN) Yes, Mr. Derstine.

24 I'd like to add to the record, you know, we're  
25 still in ongoing negotiations. We've not completed

1 detailed design, and there's a very thorough process once  
2 you get under -- under contract. But regarding lighting,  
3 the EPC contractors stated in documents we've got on file  
4 at this time, "Lighting design will be in accordance with  
5 the Illuminating Engineering Society of North America,  
6 IES." I didn't know there was a -- such an organization.  
7 And that they'll use the most current handbook, which is  
8 the 10th Edition, which sets the standards and kind of  
9 complies with green building design standards.

10           The supplier will install approximately 45-foot  
11 tall lighting poles that have three LED lights on each  
12 pole that are faced in the downward orientation for area  
13 lighting. And, you know, across the expansion project  
14 they anticipate approximately 20 to 25 poles that would  
15 be positioned around the facility to provide adequate  
16 lighting for operation and maintenance.

17           And during the detailed design process, we have  
18 the ability to influence -- the lighting design will be  
19 submitted to APS. We can comment on that and ensure that  
20 we will comply with the dark sky requirements.

21           CHMN STAFFORD: And will that require --  
22 because those pictures of the existing plants, the lights  
23 seem pretty bright at the top of the stacks. I mean, are  
24 they on all the time? It seems like those don't need to  
25 be on most of the time, because the nearest residence it

1 seemed pretty bright at night in that -- in that photo.

2 MR. VAN ALLEN: Chairman Stafford, there  
3 were different photos that were showed during  
4 Mr. Turner's presentation. That lighting does stay on.  
5 Operators make rounds through the units during normal  
6 operations validating the system is safe and operating as  
7 intended. So I -- you know, without going out and using  
8 light meters and doing a full light study to survey that,  
9 you know, it was designed, originally built to the  
10 standard that was in effect at the time. So that's the  
11 best I know at this time.

12 CHMN STAFFORD: All right. Thank you.

13 BY MR. DERSTINE:

14 Q. To your knowledge, Mr. Van Allen, has APS been  
15 ever -- ever been cited for violating a Maricopa County  
16 lighting ordinance with regard to the Redhawk Plant?

17 A. (MR. VAN ALLEN) I'm not aware of a notice of  
18 violation for the lighting standard, Mr. Derstine.

19 Q. Okay. All right. Before the break, Member  
20 Fontes asked I think a couple questions since I've got  
21 you have at the mic, one -- well, yesterday we had a  
22 question on gas quality. Can you speak to that? One was  
23 who regulates gas quality and is there a difference  
24 between the gas quality that comes from the Permian Basin  
25 and what's the other location?

1 CHMN STAFFORD: San Juan.

2 MR. VAN ALLEN: Basin, correct.

3 So with further investigation we've  
4 identified, ultimately, gas that gets put into an  
5 interstate pipeline FERC sets the standard, right, for  
6 that. So they set that standard and all producers have  
7 to put product in that meets that standard, otherwise,  
8 they can't -- can't put it in the pipeline.

9 And regarding -- there's no operational --  
10 the difference between the Permian Basin and the San Juan  
11 Basin, from an APS perspective and the operations team,  
12 there's no noticeable difference between those two gas  
13 sources. There is multiple gas fields within each  
14 respective, you know, the Permian Basin or San Juan  
15 Basin, so it gets blended together, so by the time you  
16 get it, you know, all of them have complied with the FERC  
17 requirement and it's not noticeable to us by the time  
18 we -- we use it for our process.

19 CHMN STAFFORD: Thank you.

20 Member Hill, you have a question?

21 MEMBER HILL: Sure. I was trying to figure  
22 out when to ask this question. So maybe this is the best  
23 time, because it is about the fuel. I was reviewing the  
24 proposed language for the CEC last night in preparation  
25 for ending this hearing today, hopefully, but there's a

1 lot, you know, even in the project description there's a  
2 description of potentially using hydrogen, which I don't  
3 think we usually include in the project description. And  
4 then WRA had asked for some language around hydrogen. I  
5 was -- so clearly we've contemplated hydrogen use in this  
6 project.

7 In contemplating hydrogen use in this  
8 project, are you thinking that hydrogen would be  
9 delivered by -- how would the hydrogen get to the site  
10 and be blended? Is there a facility that would need to  
11 be added to the site plan? What's the thought on the  
12 hydrogen use? Can you please talk to us about that?  
13 Thank you.

14 MR. VAN ALLEN: Member Hill, I believe  
15 Mr. Cole's better suited to speak to that item.

16 MR. COLE: Committee Member Hill, I'm happy  
17 to jump in. During my testimony on, what day of the week  
18 are we on, Monday, we did speak about this a little bit,  
19 but -- but it's a fair question, because I think, you  
20 know, if we -- if we say we're contemplating it, it's  
21 important to understand why, so no problem with the  
22 question.

23 The reality is the machines are capable of  
24 burning up to 35 percent hydrogen today. The other  
25 reality is that there is no clear path to be able to

1 actually do that, right. There is no plan on how you're  
2 going to distribute it. There's no plan on how we can  
3 get it. All of that is still very much up in the air.

4 We only point that out to be clear that  
5 today these are gas units. They're going to run as gas  
6 units. We need them as gas units for reliability. But  
7 we are leaving that opportunity in the future to be able  
8 to, if the technology advances, if the distribution  
9 advances, to the point that it makes sense for our  
10 customers, then we could move forward with hydrogen.

11 And so there are no current plans. It is  
12 just trying to hold out an open option to allow that to  
13 happen in the future. I hope that helps a little bit.

14 MEMBER HILL: Yes, thank you.

15 Given current technology and available  
16 infrastructure I kind of just see two ways that the  
17 hydrogen could be blended or included. It would either  
18 come via pipeline or it would be blended into the natural  
19 gas potentially one day in the future or it would be  
20 truck traffic. Have you guys -- and given that there's a  
21 lot of hydrogen facilities and production facilities,  
22 considering locating in the Valley, have you given  
23 thought to any of how that hydrogen would get to the site  
24 and be blended into the system?

25 Would you need new facilities in your site

1 plan or other things like that that we might want to  
2 consider in issuing the CEC?

3 MR. COLE: Committee Member -- sorry --  
4 Hill, you're asking all the questions we are. We don't  
5 know what that will look like. We've thought about, you  
6 know, could it be blended in a pipeline at some point in  
7 the future. The reality is that everybody that uses that  
8 pipeline would have to use that same blend, and so that  
9 becomes difficult. Will it be new pipeline?

10 I have a hard time getting my head wrapped  
11 around truck traffic, because the volumes that you would  
12 need in order to operate a power plant would be, I don't  
13 think you could make a truck big enough. So I think  
14 there's a lot of questions yet to be answered. I do  
15 think that there are some contemplations of  
16 some -- something in the CEC that kind of lets us come  
17 back and put reports to let you guys know when we do get  
18 to that point we'll absolutely document that, you know,  
19 talk about all the different components, the economics,  
20 the pieces, the distribution.

21 So I think that was talked about on the  
22 first day and so, you know, we're okay with doing that,  
23 because we know that has to be done anyway.

24 MEMBER HILL: Okay. My apologies for  
25 repeating this. I literally missed one hour, because I

1 got on a flight and I just missed like the latter portion  
2 of the day, so I apologize. But thank you for revisiting  
3 that topic with me.

4 MR. COLE: Committee Member Hill, no  
5 apology is necessary. And I'm happy to restate anything  
6 I need to restate. Thank you.

7 CHMN STAFFORD: Member Fontes, you have a  
8 question?

9 MEMBER FONTES: Thanks, Mr. Chairman.

10 I also apologize, because I missed part of  
11 the hearing yesterday on the phone, the end of the air  
12 emissions. And one of the things I was wondering because  
13 you've got close proximity to the solar plant there, and  
14 I believe they have a 15-year PPA with APS. I've seen  
15 this in other jurisdictions, again, I've been a developer  
16 too.

17 Is there a permission that you have to get  
18 from that solar plant developer or occurrence to avoid  
19 any potential future liability or insurance from  
20 ground-level ozone or particulate matters from pollutants  
21 impacting their operation?

22 Again, because they're pre-existing, and I  
23 think they came in after the Redhawk initial plant, but  
24 now you're going to put the peaker plant on top of that,  
25 could that impact the performance with that study? Are



1 you going to have to have an insurance product? How does  
2 that relate to them as it could be handled through these  
3 environmental factors?

4 That's what I'm trying to get a sense of  
5 here, have you looked at that?

6 MR. COLE: I'm probably not the right  
7 person to answer that question, I'm kind of looking  
8 across the room and hoping for a little call-in here, but  
9 I think if I were to speculate, and that's all it would  
10 be, Committee Member Fontes, if we are complying with all  
11 of our requirements for putting in the power plant  
12 specifically from an air quality standpoint and from the  
13 other components there, I'm not sure there would be any  
14 impact to be mitigated, for example, a solar plant.

15 But I -- I don't think I could go any  
16 further than that without getting some help in the -- at  
17 a break or something like that.

18 MEMBER FONTES: No issue, and I know it's a  
19 tough question. I just wanted to know if you thought  
20 through that in the design and the planning and the  
21 permits in terms of the mitigation of that that you  
22 should take, for sure, probably in financing, but in  
23 terms of insurance or getting a permission from that,  
24 that solar plant in the event that that contingency  
25 happens. So I appreciate you addressing it. Just so we

1 can have it for the record. Thank you.

2 MR. COLE: Thanks, Committee Member Fontes.

3 BY MR. DERSTINE:

4 Q. Mr. Cole, while you have the mic, Member Fontes  
5 had raised a question around decommissioning, are you  
6 able to speak to that issue?

7 A. (MR. COLE) Yes, Mr. Derstine.

8 Committee Member Fontes, related to the  
9 depreciation and maybe -- maybe to give a little bit more  
10 color around it, first of all, when we talk about  
11 depreciation, this will be part of a generation asset  
12 class when it comes to depreciation; however, each  
13 individual component is -- is calculated and done  
14 separately based on the in-service and then when we get  
15 to an in-service and expected lifetime. So I'm leading  
16 up to the direct question, but give me a second.

17 So I did want to be clear that this project and  
18 the assets around this project will be treated as a  
19 separate item and calculated on their own, so they'll be  
20 included in a broader asset class. But as a public  
21 utility corporation, we have obligations and ways that we  
22 do accounting, and I did testify that I'm not an  
23 accounting expert, I will reiterate that. But the way  
24 that is done is we'll treat that on an individual basis,  
25 then it will rolled up into the broader generation asset

1 class that will be found in all of our filings and I  
2 believe both FERC filings and ACC filings.

3 Now, getting to the -- the -- was it a  
4 depreciation question or was it a --

5 Q. My -- my apologies, I think Member Fontes maybe  
6 had both questions, one was how you were treating it for  
7 FERC accounting purposes and depreciation, and then he  
8 had a separate question about how APS intended or did  
9 have any plans for the ultimate end of life for this  
10 plant whenever that might occur.

11 A. (MR. COLE) Thank you.

12 MEMBER FONTES: Mr. Derstine, if I could  
13 add color to that, just to help get to the answer,  
14 because they're kind of commingled, it's on cost  
15 recovery. It was noted that the -- you guys are going to  
16 use the accounting treatment as CWIP, that would be  
17 capitalization on recovery as allowance for use during  
18 construction. And then it's going to be rate-based,  
19 okay? So that would be treated as a separate asset. And  
20 we'll eventually have a separate FERC form filing one in  
21 the base plant for the peaker units, if that's the case.

22 Can you confirm that.

23 MR. COLE: So I -- Committee Member Fontes,  
24 as I was explaining, we will be treating this project as  
25 a separate item, and so it will have its own -- I'll call

1 it calculations done, so you are correct.

2 MEMBER FONTES: So it will have its own  
3 rate base for accounting and operation for business and  
4 FERC filing?

5 MR. COLE: Correct.

6 MEMBER FONTES: Okay. That was the first  
7 thing, because I just wanted to make sure that it's  
8 separate in terms of an asset as we represent it on the  
9 balance sheet of Pinnacle West and APS in the base plant.  
10 Then the second thing is how -- how do you guys handle  
11 decommissioning? We're all about the Certificate of  
12 Environmental Compatibility, can you educate and inform  
13 here, and for the record, how do you guys think about the  
14 lifecycle of an asset for environmental mitigations and  
15 the Commission, just for the record, Brian. Appreciate  
16 you.

17 MR. COLE: Sure. Sure, Committee Member  
18 Fontes. And so just to try to make sure that I'm saying  
19 this the right way, there are -- there are differences,  
20 again, as a public service corporation, there are  
21 differences in the way that we deal with things in the  
22 public utility space than others might. So we can't  
23 really make a connection to last week's hearings here.

24 MEMBER FONTES: Yes, sir. And we just want  
25 to make sure we get it from your perspective, in your

1 case. So you and I are 100 percent synced on that.

2 MR. COLE: Okay. So -- so what we do is,  
3 in the case of an asset like a gas plant in this case,  
4 where APS owns the land, APS will own the plant for our  
5 customers' benefit, we will -- when we put this asset  
6 into rate base, we will establish what we believe a  
7 potential end of use of the asset need to do whatever we  
8 need to do. And I -- and I -- I'm hesitating to use  
9 words because you never know whether you're going to  
10 repurpose, whether you're going to take it down, what  
11 you're going to do, but we make an estimate of what we  
12 think that will be.

13 That then is essentially charged as part of  
14 that asset in our rate base toward our customers, and it  
15 becomes a -- I think the term is a regulatory liability.  
16 And so we're collecting that on behalf of our customers,  
17 because we know we have an obligation at the end. Along  
18 the way, right -- these assets last a while -- along the  
19 way, there may be changes to that based on what we now  
20 know. There may be federal regulations, state  
21 regulations, other things that occur, we may have to  
22 adjust it. Or we may determine there's a better way to  
23 do it and it's going to be less expensive and we can then  
24 change that going forward to adjust for that.

25 But either way what we're doing is we're

1 building in that on a regular basis and then each rate  
2 case we'll update that. And so that will be part of the  
3 asset itself and what gets collected. So very different  
4 from when you have a Palo Verde Nuclear Generating  
5 Station, there are federal regulations that dictate what  
6 that's going to look like at end of life and so we have  
7 to plan that one in a different way, but an asset like  
8 this, that's the way we take care of it.

9 MEMBER FONTES: So for my fellow members,  
10 it's a complete different treatment in that a regulating  
11 utility, in this case Arizona Public Service, has in the  
12 rate base a fund for all their assets for either end of  
13 life or reutilization purposes, where a merchant plant  
14 does not. So, in essence, in my personal opinion that  
15 end-of-life risk that we have to the environment is fully  
16 mitigated here, as opposed to what we saw last week.

17 Mr. Chairman, thank you for the  
18 opportunity. And, Mr. Derstine, I really appreciate you  
19 following up on these, as well as you, Brian.

20 MR. COLE: My pleasure.

21 CHMN STAFFORD: Thank you.

22 Member Hill, you have a question?

23 MEMBER HILL: Member Fontes, I tend to  
24 agree with you on mechanisms for decommissioning and  
25 de-risking that working with APS. I just want to point

1 out that there are some coal plants that have been  
2 decommissioned and had to be taken down, and there was  
3 some mitigation that even APS proposed, I think of Navajo  
4 Generating Station, where the economic impact was really  
5 significant in that community to losing Navajo.

6 And I think a couple of utilities were  
7 coming together to try and mitigate that, and you  
8 couldn't put it into rate base, if I remember right. You  
9 tried to figure out how to make that work, because all of  
10 our -- the low cost of electricity for decades, as a  
11 function of that facility, created a lot of economic  
12 opportunity for lots of folks. And you were trying to  
13 mitigate the impacts on the Navajo Nation and up in  
14 Coconino County, and we couldn't rate base it.

15 So I do think that understanding your  
16 decommissioning thinking and the life of a facility that  
17 you're using is helpful. And while I definitely see it  
18 being different than a merchant developer, I think we'll  
19 continue to ask these kinds of questions and get your  
20 perspective on that decommissioning.

21 Because when we build these facilities, we  
22 can't always, like you said, Mr. Cole, contemplate  
23 what -- what that decommissioning is really going to look  
24 like, and it's going to change over time, and so I just  
25 want to make sure that we're being conscientious about

1 that. So thank you.

2 CHMN STAFFORD: Any other questions from  
3 members?

4 Mr. Derstine.

5 MR. DERSTINE: I think Mr. Van Allen had a  
6 follow-up to another question that came from Member  
7 Fontes just before the break relating to -- let me make  
8 sure I get it right -- silencing baffles, et cetera, that  
9 are part of the LM6000 package and are those -- will  
10 those be included in the expansion project.

11 MEMBER FONTES: Mr. Derstine, if I can help  
12 out your team there.

13 MR. DERSTINE: Please, yeah.

14 MEMBER FONTES: I'm just looking for  
15 education and information that you have based on the West  
16 Phoenix peaker plant's design that you're going to  
17 incorporate, because I guess Mr. Van Allen has informed  
18 us that you don't have a final design on this plant --  
19 peaker plant yet, but what are those things that you've  
20 done on other peaker plants that you're going to  
21 incorporate in this to abate noise that you always do in  
22 terms of the APS other peaker plants?

23 So, you know, and those things are the  
24 things that I listed, shrouds, barriers, and other  
25 improvements on the plant, just so we capture that,



1 again, sensitivities based on last week's hearing that I  
2 think you all listened to. So we want to be consistent  
3 in our treatment in terms of the design part to address  
4 any future potential noise issues, because sometimes  
5 modeling is wrong and sometimes conditions change as  
6 plants evolve.

7 So thank you, Mr. Derstine, that's where it  
8 was coming from. Hope that's helpful.

9 MR. DERSTINE: That is. Thank you, Member  
10 Fontes. Let me ask a clarifying question to Mr. Van  
11 Allen.

12 Q. Mr. Van Allen, is -- is West Phoenix a peaker  
13 plant or is it a combined cycle plant?

14 A. (MR. VAN ALLEN) So there are seven units at the  
15 West Phoenix Power Plant, Mr. Derstine.

16 Q. Okay. And are they peak -- are they simple  
17 cycle peaking units or what's the nature of the units  
18 that are located there?

19 A. (MR. VAN ALLEN) I'm thinking through all the  
20 units just so I speak accurately. There are five  
21 combined cycle units at that facility, West Phoenix  
22 Station, and there are two simple cycle units at that  
23 facility.

24 Q. And so I --

25 MEMBER FONTES: I might orient you to

1 Securities and Exchange Form 10-K, the annual report  
2 filed on December 31st, 2023, it's represented that  
3 there's two units there, there's two plants there at West  
4 Phoenix, one being stated a peaker plant on your annual  
5 report, if that's helpful.

6 MR. DERSTINE: Yeah. And I think Mr. Van  
7 Allen indicated there's two peaking units at West  
8 Phoenix. The remaining units are combined cycle units.

9 Q. So were there any upgrades or -- performed on  
10 the peaking units or maybe at another APS plant that, I  
11 guess, informed your decisionmaking about the LM6000  
12 packages that you're using for the expansion project at  
13 Redhawk, and do those incorporate, I guess, the best  
14 available noise, silencing, and baffling technology?

15 Did I -- did I capture what you were looking  
16 for, Member Fontes?

17 MEMBER FONTES: Perfectly. Thank you,  
18 Mr. Derstine.

19 MR. VAN ALLEN: Mr. Derstine, Mr. -- or  
20 Member Fontes, so there are no LM6000 units at the West  
21 Phoenix Station, right, they're different units. The  
22 Redhawk Expansion Project is LM6000 packages. They are  
23 configured with silencers. They have a silencer in the  
24 stack. There are acoustic panels within the package that  
25 limit noise and there are sound guarantee levels that are

1 written into the agreement that are still being developed  
2 that are guarantees that are consistent with the  
3 guarantees that industries had for LM6000 packages for  
4 several decades now.

5           And the exact number of that is 85 decibels  
6 at a height of 1.5 meter, 1 meter away from the  
7 equipment. And that's a guarantee that's written in the  
8 agreement, and they will go through and do a test and  
9 ensure that they're complying with that. That's the  
10 design standard that Mr. Turner used as an input into his  
11 model, as he did the sound, right. And I think the facts  
12 of the Redhawk facility with its proximity to the nearest  
13 resident are much different than maybe the West Phoenix  
14 Station which is, you know, more in the west -- West  
15 Phoenix area.

16 BY MR. DERSTINE:

17       Q.    So what I heard you say is that you'll be  
18 utilizing whatever the state of the art noise-reducing  
19 elements for all the various components of the LM6000,  
20 and those will be utilized at the Redhawk Expansion  
21 Project?

22       A.    (MR. VAN ALLEN) That is correct.

23       Q.    And then those numerical values that are  
24 specified by General Electric or the manufacturer or the  
25 EPC contractor were utilized by Mr. Turner in his noise

1 modeling?

2 A. (MR. VAN ALLEN) That is correct.

3 MR. DERSTINE: Member Fontes, did you have  
4 any more follow-up on that issue?

5 MEMBER FONTES: I just want to clarify,  
6 because I think it's important for the record and I think  
7 it's a positive attribute, you have an EPC contractor,  
8 you're going to do independent noise testing as part of  
9 your commissioning plan. If there's performance issues  
10 on noise or other operation issues, that is incumbent  
11 upon the EPC contractor to either pay them out in  
12 performance scheduled liquidated damages or do the  
13 corrective action plan and do a punch list; is that  
14 correct, Mr. Van Allen, what I heard?

15 MR. VAN ALLEN: Member Fontes, that is  
16 correct.

17 MEMBER FONTES: So you have mitigated it in  
18 the event that it's not designed to address the issues.  
19 Thank you very much. I just wanted to capture that for  
20 the record.

21 Mr. Derstine, I don't have any further  
22 items. Mr. Chairman, but I appreciate you indulging me  
23 in this for our record.

24 MR. DERSTINE: Thank you.

25 CHMN STAFFORD: Thank you.

1                   So I believe you're ready to move on to the  
2 public outreach portion?

3                   MR. DERSTINE: I think we are. And  
4 Ms. Benally is going to take our witnesses through that  
5 final piece of our case.

6 BY MS. BENALLY:

7           Q.     Okay. Let me start with Mr. Turner.

8           A.     (MR. TURNER) Yes.

9           Q.     So let's start by outlining the various outreach  
10 methods that APS used.

11          A.     (MR. TURNER) Yes, I'll be happy to discuss that.  
12 The first element I was wanting to talk about was the  
13 notification element first before I went to my next  
14 slide. The notification area is called up on the right  
15 screen of APS-11, slide 308, and again, the Redhawk Plant  
16 is in the center and we utilized a three-mile area for  
17 our notification area. Again, this was due to the  
18 smaller number of residents nearby to the power plant, as  
19 well as mirroring the U.S. EPA's environmental justice  
20 review tool.

21                I do want to point out, though, we did expand  
22 the three-mile area at two locations, they're both in the  
23 general area. I'm using my pointer to point out an area  
24 of the circle that's broken. There are two little, small  
25 steps and then a larger step. The larger step that you

1 see that goes beyond the three-mile buffer was to include  
2 the entire platted community from 1970. We've mentioned  
3 this community several times, and only about half of the  
4 parcels actually have structures, but we wanted to notify  
5 everybody in that community. So landowners and existing  
6 residents were notified, and that larger area was to grab  
7 all the way up to South Mountain Road, which is the  
8 northern boundary of that community.

9 As we did that, though, we noticed that the  
10 three-mile area also was sort of bifurcating a group of  
11 about five homes, and we utilized the Maricopa County's  
12 assessor web page, and they all had the same last name,  
13 so we wanted to make sure that everybody, their brother,  
14 their sister, mother got the same notification, and I  
15 didn't have to knock on their doors. So that's where you  
16 see we've expanded out beyond that boundary.

17 And to Ms. Benally's question about our outreach  
18 efforts, we utilized several different opportunities,  
19 including project mailings. We did develop a virtual  
20 open house. We did have an in-person open house on  
21 June 6th. APS held stakeholder briefings. APS also had,  
22 in addition to the virtual open house, they also have a  
23 project web page, we'll talk specifics in a minute. We  
24 did have a project telephone hotline, an 800 number set  
25 up. And APS also utilized social media ads, as well as

1 their own customer email databases. And we'll talk more  
2 about all of those items here in just a moment.

3 Q. Thank you.

4 Let's start with discussion or testimony on  
5 project mailings.

6 A. (MR. TURNER) Thank you.

7 So I just mentioned that we had the three-mile  
8 area. Within that notification area, there approximately  
9 460 landowners, and we utilized the U.S. Postal Service  
10 as well as Maricopa County's Assessor's page to generate  
11 that mailing list. And we sent them a newsletter on  
12 April 12th that was calling their attention to the  
13 virtual open house, as well as letting them know  
14 information about the in-person open house, which was on  
15 June 6th at the Arlington Elementary School.

16 In addition to the newsletter -- by the way, the  
17 newsletter is on the right screen. It is an exhibit in  
18 Exhibit J of the CEC application. It was a two-page  
19 newsletter that was bilingual, all of our outreach  
20 efforts were produced bilingual if I forget to mention  
21 that again.

22 In addition to the newsletter, we did also send  
23 out postcards, smaller, just reminding them of the  
24 June 6th open house. And then again, in August, on  
25 August 5th, we sent a follow-up postcard that provided

1 information about this hearing, and we'll talk specifics  
2 about responses to that, but those -- that was the public  
3 mailings element of our outreach efforts.

4 Q. And APS held a virtual open house; is that  
5 right?

6 A. (MR. TURNER) Correct. The virtual open house  
7 was launched on April 12th, the address is up there. I  
8 hope everybody had time to take a look at it. These are  
9 engaging opportunities for the public. We've set it up,  
10 the screen on the right side has a couple screenshots  
11 from there. We had message boards that talked about the  
12 project schedule, the project overview, the CEC process,  
13 as well as specific summary statements from our technical  
14 reports.

15 And again, each of those boards, depending on  
16 which side you would click would be an English version of  
17 that message or a Spanish version of that message. The  
18 virtual open house was quite successful, I would have to  
19 admit. We had over 1,300 unique visitors, I've updated  
20 that from the slide that you see there. And "unique  
21 visitor" means, you know, a tablet or a phone or a  
22 computer. And so a person in their household may have  
23 visited off of several different devices, but we like to  
24 think that it's multiple people looking at that.

25 In addition to having 1,300 unique visitors they



1 did visit the site more than 2,100 times. So we feel  
2 like the information was there for them to be able to --  
3 to digest. And the virtual open house had an opportunity  
4 for the reviewer to send an email or to call the 800  
5 number. And the email link and the 800 number were used.  
6 We'll get to that in a moment.

7 Q. And the opportunity for the public to submit  
8 comments via the open house was available since  
9 April 12th, and it's available up to today; is that  
10 right?

11 A. (MR. TURNER) Correct. The virtual open house is  
12 still live and all the links are still working.

13 Q. All right. Then we also held an in-person open  
14 house, right?

15 A. (MR. TURNER) We did.

16 Q. Can you walk us through that?

17 A. (MR. TURNER) Yes. I'm happy to.

18 We utilized the Arlington Elementary School,  
19 which is about 2.5 miles from the project site. We  
20 wanted to be in the area, because obviously, the  
21 community we want to get the people in the general  
22 vicinity. That was held June 6th, at the Arlington  
23 Elementary School in their gymnasium. It was from 4:00  
24 to 8:00 p.m.

25 We did have 15 people from the general public

1 attend the meeting, and we did have written comment forms  
2 that could be filled out on-site and left behind or  
3 mailed in as -- at a later date, and several of the  
4 people that visited mentioned they had neighbors that  
5 they wanted to get the comment cards to.

6 We did receive seven written comments after the  
7 public open house in April, six were left behind and one  
8 was mailed in. And the summary of those comments I'll  
9 get to in a little bit as well. They are included in  
10 APS-20 in the exhibit binder.

11 Q. Thank you.

12 So up to this point you've walked the Committee  
13 through the outreach that we've done with the general  
14 public. APS is also required to do outreach to agencies  
15 and jurisdictions. I believe that's your next slide.  
16 Would you walk us through that?

17 A. (MR. TURNER) Yes, happy to.

18 So we are in unincorporated Maricopa County, so  
19 we didn't have a city directly to communicate with. We  
20 held one-on-one -- APS held one-on-one briefings with the  
21 local jurisdictions that included Maricopa County's  
22 Planning Department and the Supervisor's Office, the  
23 Governor's Office, the Energy Policy Advisor. As we  
24 mentioned earlier, the Arizona State Historic  
25 Preservation Office is also being communicated for

1 specifically.

2 The screen on the right shows some of the  
3 representatives that were reached out. Arizona District  
4 25 is the area, the senator and the representatives were  
5 reached with information, again, steering them to our  
6 prepared materials, as well as allowing them one-on-one  
7 conversations.

8 I mentioned we are in unincorporated Maricopa  
9 County, the nearest incorporated county -- excuse me --  
10 incorporated city is the City of Buckeye, and we did meet  
11 with the mayor and the City manager just as a courtesy as  
12 well to let them know our intentions at Redhawk.

13 And then, finally, the local Arizona Fire and  
14 Medical Authority, we met with the fire chief and the  
15 assistant fire chief just, again, letting them know about  
16 the project and giving them an opportunity to  
17 communicate.

18 Q. To your knowledge, were there any particular  
19 concerns that were raised by any of these stakeholder  
20 meetings?

21 A. (MR. TURNER) No concerns came back.

22 Q. Thank you.

23 So APS also used other methods to publicize the  
24 project more -- project information a little bit more  
25 broadly. Can you walk us through those methods?

1 A. (MR. TURNER) Yes.

2 So I've mentioned the virtual open house, which  
3 had a specific address. In addition to that, APS has a  
4 project web page dedicated to their transmission and  
5 power line projects where they keep additional  
6 information on the project, including the CEC  
7 applications and all the materials from this hearing.  
8 That address is on the web page. It is not intended as  
9 interactive with a link to email back. The virtual open  
10 house is where that avenue was available.

11 In addition to that web page, there was a  
12 project telephone information line. My company set up an  
13 800 telephone line. It was utilized a few times, twice.  
14 During our Monday public opportunity, that 800 number was  
15 given out. We have not received a phone call this week  
16 using that number. The two phone calls that did come in,  
17 as I mentioned, this community has residents that are  
18 there, as well as landowners that are outside of the  
19 state or maybe the county, and that seemed to be the  
20 avenue for them to reach out. They were most curious  
21 about if APS needed land for the project.

22 In addition to those elements, APS also has been  
23 utilizing social media ads, and again, we're in a rural  
24 area that doesn't have much population, so both Facebook  
25 and Instagram suggested that a 10-mile buffer be

1 established for the social media ad. So it went out  
2 broader than our area.

3 We placed ads in May -- May 17th through May  
4 31st, again, to try to generate -- provide general  
5 information, as well as information about the virtual  
6 open house, and the in-person open house. And some of  
7 those ads, they are in the exhibit binder, under Exhibit  
8 J, as some of the figures. I have them on this right  
9 screen. The social media ads were both in English and  
10 Spanish, and they -- I just wrapped them around here.  
11 They had a picture, as well as a message and then links  
12 back to project information, like the virtual open house.

13 Those social media ads seemed to be fairly  
14 productive with a 10-mile radius. It does seem to extend  
15 far enough north to grab I-10, so passengers in vehicles  
16 who are scrolling through Facebook might see that ad pop  
17 up when they pop through that area. But what I would  
18 like to point out is that it was -- the reason I say it  
19 was successful is at our virtual open house level, I can  
20 track how visitors hit the site, and in the May  
21 timeframe, 860-plus people used the social media ads to  
22 actually link to the virtual open house. We didn't quite  
23 get as much attention here in August, we had 100 new  
24 visitors through that avenue with social media ads,  
25 again, linking them back to the virtual open house. And

1 with the virtual open I can see those numbers. So in my  
2 opinion the social media ads had served a purpose and did  
3 get people directed back to the virtual open house.

4 In addition to that, we used -- APS used their  
5 customer emails, so if a customer provided an email  
6 address to them to say that you're allowed to reach out,  
7 that email was utilized for the customers in the general  
8 area that are served by the lines in the notification  
9 area.

10 And then, finally, in addition, newspaper ads  
11 were placed in the West Valley View, which services our  
12 project area, as well as the Arizona Republic. And that  
13 ad is in this top center of the screen on the right. And  
14 again, it had a -- what do you call, I apologize, URL  
15 code -- sorry, I'm old school, my apologies.

16 MEMBER FONTES: QRC.

17 MR. TURNER: Excuse me?

18 CHMN STAFFORD: I think Member Fontes said  
19 "QRC."

20 MR. TURNER: QRC, thank you. QR code, I  
21 think.

22 BY MS. BENALLY:

23 Q. QR code.

24 A. (MR. TURNER) QR code. And then general  
25 information.

1 Q. Mr. Turner, back to the newspaper ads, the focus  
2 of that communication was related to the virtual open  
3 house or the project launch; is that correct?

4 A. (MR. TURNER) Correct. The newspaper ad for the  
5 open house was in the West Valley View, the local paper.  
6 The Arizona Republic was more utilized for the hearing  
7 announcements.

8 Q. Okay. Thank you for that clarification.

9 You also mentioned that you compiled a summary  
10 of public involvement, which is APS 20 in the exhibit  
11 binder. Is there anything in particular you want to  
12 cover from that exhibit or have you covered it in your  
13 testimony so far?

14 A. (MR. TURNER) I have not yet. I was going to  
15 switch to the summary slide, which would talk about those  
16 public comments in just a brief overview.

17 Q. Okay.

18 A. (MR. TURNER) So we did --

19 Q. Let's move there, then.

20 A. (MR. TURNER) Yeah.

21 So just to summarize, our public involvement,  
22 our outreach efforts. We provided, as you saw, a robust  
23 opportunity to virtually reach out, as well as to call  
24 someone and to speak to someone on the phone. We  
25 utilized social media and other avenues, so it provided a

1 great opportunity to get to the virtual open house, which  
2 showed summaries of the environmental studies.

3 Newsletters and postcards are obviously, if  
4 people get mail, that is a good way to talk about a  
5 project in the general vicinity. In general, I do have  
6 an update to that slide, we have 14 comments that were  
7 received as of August 5th, which is when I was pulling  
8 these slides together. The additional comment came in as  
9 a fifth email. So we have five emails, two phone calls,  
10 and seven open house comments.

11 Those are summarized in APS-20. There is a  
12 table at the end of that short report that has those  
13 comments with names redacted. In general, the open house  
14 comments were in support of the project.

15 The phone calls, again, were looking for  
16 questions about the amount of land needed for the  
17 project, and the emails were, as you can see in the  
18 comment forms, asking projects -- project-specific  
19 questions or in support of the project.

20 MEMBER KRYDER: Mr. Chairman?

21 CHMN STAFFORD: Yes, Member Kryder.

22 MEMBER KRYDER: One question, Mr. Turner, I  
23 was quite taken, and this shows again my ignorance about  
24 your social media ads, you said people driving by on the  
25 10 may have seen the ads, so this -- the way this works,



1 then, is you're just flying through an area from  
2 Tuscaloosa, Alabama, but you're on the 10, and the ad  
3 pops up on your phone, is that the way that works?

4 MR. TURNER: So it's called "an  
5 impression." And so if you're thinking of Facebook and  
6 if you're scrolling there, ads can pop up. You can click  
7 on them or you don't click on them. So that's an  
8 impression, and we do know that, because Facebook and  
9 Instagram track that, they monitor that, we know how many  
10 impressions were there. With the impression, though, you  
11 can then click on it and read that ad, which was on the  
12 screen up there. In addition to that, you can then click  
13 on a link in the ad which brought them back to the  
14 virtual open house.

15 So getting to your point, the purpose of  
16 the social media ads was to get the local population, but  
17 we -- the social media companies wouldn't let us keep it  
18 at a 3- to 5-mile range, they suggested it needed to be  
19 larger to 10 miles, and the only reason I brought up I-10  
20 was because I know the area well enough that 10 miles  
21 would cover that traffic, so it is a possibility that  
22 someone, as a passenger, did see the ad that does not  
23 live in the area.

24 MEMBER KRYDER: Okay. So I'm flying  
25 through and the three kids are the backseat, each got

1 their phone, and so -- wow, I didn't realize that's the  
2 way it works, so thank you for the education on social  
3 media.

4 BY MS. BENALLY:

5 Q. So, Mr. Turner, just to be clear, on your slide  
6 321, you note that -- I think it's your third bullet,  
7 that there were 13 comments that were received and you  
8 give the breakdown, however, APS-20 has been updated to  
9 reflect the 14th comment that was received via email; is  
10 that correct?

11 A. (MR. TURNER) That's correct. That final -- 14th  
12 comment came in on April -- or, excuse me, August 5th.  
13 That was an email.

14 Q. Okay.

15 Thank you. Is there anything more on public or  
16 stakeholder engagement that you want to cover or does  
17 that end your testimony?

18 A. (MR. TURNER) I think that ends my testimony,  
19 unless there's a question.

20 MS. BENALLY: Okay. Seeing none, let's  
21 move to Mr. Duncan.

22 MEMBER FONTES: I did have a question,  
23 Mr. Chairman?

24 CHMN STAFFORD: Yes, Member Fontes.

25 MEMBER FONTES: Question is, did your

1 outreach extend to other infrastructure, asset managers  
2 in the area, such as that solar project that's located  
3 adjacent or other gas plants?

4 MR. TURNER: I do recall there were 15  
5 people that attended the public meeting, and I believe  
6 two were from one of the other gas-fired plants. Nobody  
7 introduced themselves as from the solar community or as  
8 an operator there, so that's not information they left  
9 behind in that regard.

10 MEMBER FONTES: But you went through the  
11 motions and you had others. That's useful. Any  
12 transmission -- independent transmission operators?  
13 Because I know there's an independent transmission line  
14 that goes on the periphery of that.

15 MR. TURNER: They would have been notified  
16 in our area. As a landowner in that area, they would  
17 have received of the mailings. Again, nobody identified  
18 themselves from that service industry during the public  
19 hearing -- public meeting.

20 MEMBER FONTES: Okay. Thank you.  
21 Appreciate it.

22 BY MS. BENALLY:

23 Q. Okay. Thank you, Mr. Turner.

24 So let's now turn to Mr. Duncan. Since you are  
25 appearing for the first time at this hearing, let's start

1 with your full name and business address for the record.

2 A. (MR. DUNCAN) You bet.

3 Good afternoon, Committee and good afternoon,  
4 Mrs. Benally. My name is Kevin Duncan and my business  
5 address is 2121 West Cheryl Drive, Phoenix, Arizona  
6 85021.

7 Q. And you are a senior siting consultant in APS's  
8 facility siting department; is that right?

9 A. (MR. DUNCAN) Yes.

10 Q. Okay. Would you share with us how you've been  
11 involved in the Redhawk Expansion Project?

12 A. (MR. DUNCAN) Yes.

13 For this project, I served as an advisor and  
14 consultant on the CEC application and -- and its  
15 materials.

16 Q. And before we launch into your testimony, would  
17 you just take a moment to describe your educational  
18 background and your work experience?

19 A. (MR. DUNCAN) Yes.

20 I had achieved a bachelor of science in urban  
21 planning from the University of Utah and a master's of  
22 business administration from Benedictine University. I  
23 have 23 years of combined experience between 14 years as  
24 an environmental consultant and nine years as a senior  
25 siting consultant with APS. I have testified eight times

1 in front of this Committee on the cases that are listed  
2 there on the screen.

3 Q. Okay. Thank you, Mr. Duncan.

4 So your testimony, if we could get to your next  
5 slide, is going to focus on the statutory requirements  
6 for public outreach. Is that a good characterization of  
7 your testimony?

8 A. (MR. DUNCAN) Yes.

9 Q. Okay. All right. So with that, let's start  
10 with the formal notice requirements, which are triggered  
11 by -- by the application.

12 Are you familiar with the date the application  
13 was filed?

14 A. (MR. DUNCAN) Yes.

15 The application was filed on July 8th, 2024.

16 Q. All right. And then just for the record, the  
17 application is APS Exhibit 1; is that right?

18 A. (MR. DUNCAN) Yes.

19 Q. Okay. Great. So one of the statutory  
20 requirements is to publish the Notice of Hearing that was  
21 issued by the Chairman. Was that performed by APS?

22 A. (MR. DUNCAN) Yes, it was. The notice was  
23 published in the Arizona Republic on July 17th and  
24 July 20th, 2024. The notice was also published in the  
25 West Valley View on July 17th and July 24th. Here on the

1 right screen are copies of the notice as they appeared in  
2 those publications.

3 Q. And those are in the hearing binder as  
4 Exhibit 13; is that correct?

5 A. (MR. DUNCAN) That is correct.

6 Q. Another notice requirement is to post signs  
7 within the vicinity of the project; was that done?

8 A. (MR. DUNCAN) Yes, it was. Two single-sided  
9 signs and one double-sided sign were placed. The  
10 single-sided -- one of the single-sided signs was placed  
11 at the southeast corner of 363rd and Elliot Avenues.  
12 That is noted here on the right screen where I'm pointing  
13 with my cursor here.

14 A single-sided sign -- single-sided sign was  
15 placed at the southeast corner of 355th Avenue and  
16 Southern Pacific Railroad. Again, I'm pointing at that  
17 location here with my pointer. And, finally, the  
18 double-sided sign was placed at the southeast corner of  
19 355th and Elliot Avenues. And I am pointing at that  
20 location with my pointer right now.

21 Q. And then the evidence of the sign posting is  
22 included as APS-18; is that correct?

23 A. (MR. DUNCAN) Yes.

24 Q. Thank you.

25 So moving on, there's another statutory

1 requirement that requires us to provide Notice of Hearing  
2 to the affected jurisdiction.

3 Who is that affected jurisdiction?

4 A. (MR. DUNCAN) The affected jurisdiction for this  
5 project is Maricopa County.

6 Q. And how was notice provided to Maricopa County?

7 A. (MR. DUNCAN) APS sent a certified letter to  
8 Maricopa County.

9 Q. Okay. And that's marked as APS-17; is that  
10 correct?

11 A. (MR. DUNCAN) Yes.

12 Q. Okay. The Chairman's Procedural Order requires  
13 APS that we place copies of the application and the  
14 transcripts from the procedural conferences at two public  
15 libraries. Would you walk us through when that was done  
16 and which locations they were placed at?

17 A. (MR. DUNCAN) Yes.

18 That was done shortly after the applications had  
19 been -- or, yeah, the application had been filed. The --  
20 one was placed at the Buckeye Public Library Downtown  
21 Branch at 310 6th Street, Buckeye, Arizona 85326. The  
22 second was at the Buckeye Public Library Coyote Branch,  
23 21699 West Yuma Road, Number 116, Buckeye, Arizona 85326.

24 And here on the right screen, we have  
25 confirmation from the librarians of receipt of the

1 application and placement at the reference desk.

2 Q. So I believe APS has two exhibits, APS-14 and  
3 APS-15 evidencing the delivery of the application and  
4 delivery of the transcripts; is that right?

5 A. (MR. DUNCAN) That is correct.

6 Q. Okay. All right. And then moving on to social  
7 media, the Chairman's Procedural Order required that we  
8 placed a notice of hearing, or at least advertised it via  
9 social media, which Mr. Turner discussed earlier; was  
10 that done?

11 A. (MR. DUNCAN) Yes, it was. And again, here on  
12 the right screen are copies of both the English and  
13 Spanish versions of that social media.

14 Q. The ad also included information about the  
15 project website; is that right?

16 A. (MR. DUNCAN) That is correct.

17 Q. Okay. Talking about the project website, we  
18 were also required to post the key filings, transcripts,  
19 and other project-related information on APS's project  
20 website; was that completed?

21 A. (MR. DUNCAN) Yes, it was.

22 Q. Okay. And the evidence showing that was  
23 performed is marked as APS-16; is that right?

24 A. (MR. DUNCAN) That is correct.

25 Q. All right. And then moving into other



1 information on the project website, can you walk us  
2 through what else APS posted on the -- on that website?

3 A. (MR. DUNCAN) Yes. This image here on the right  
4 screen is not the entirety of the website, but it does  
5 include some screenshots of some of the materials that  
6 are on the website. That includes a copy of the CEC  
7 application, the air permit revision application, the  
8 pre-filing and prehearing conference exhibits, public  
9 open house materials, newsletters, and it also has a link  
10 to the virtual open house.

11 Q. Okay. Thank you.

12 And then one final question regarding an  
13 additional action that APS took to inform the public of  
14 the notice of hearing that's occurring here is a postcard  
15 that was mailed; is that right?

16 A. (MR. DUNCAN) That is correct.

17 Q. Do you have the date of when that was mailed?

18 A. (MR. DUNCAN) I don't have it.

19 Q. I'm looking at our exhibit list here, APS-28 is  
20 evidencing that postcard mailing on August 5th of 2024;  
21 does that sound correct?

22 A. (MR. DUNCAN) Yes, that is correct.

23 Q. All right. Thank you.

24 Is there anything further you would like to  
25 speak to regarding your involvement in this case?

1 A. (MR. DUNCAN) No, there is not.

2 MS. BENALLY: Okay. Great. Thank you.

3 That concludes Mr. Duncan's testimony, as  
4 well as Mr. Turner's, unless there are questions.

5 CHMN STAFFORD: I must have blinked and  
6 missed it. Did you reference APS-27 with the social  
7 media posting with the hearing information?

8 MS. BENALLY: If I did not -- oh, yes, I  
9 did.

10 CHMN STAFFORD: Okay. Mr. Derstine,  
11 there's a number of exhibits still left, are you planning  
12 on introducing those or are you planning not to offer or  
13 withdraw them?

14 MR. DERSTINE: There are a number. I was  
15 just taking a look at our exhibits list. I'm happy to go  
16 through those now or if you'd like to do it after lunch,  
17 whatever your preference is.

18 CHMN STAFFORD: Yes, it is a quarter after  
19 12:00, it is lunch time. We can come back from lunch and  
20 cover the exhibits, and get them -- make sure we cover  
21 them and admit them. And then we can start discussing  
22 Conditions.

23 MR. DERSTINE: Very good. Thank you.

24 CHMN STAFFORD: All right. Well, let's  
25 take an hour break for lunch, so we'll be back at

1 approximately 1:15.

2 We stand in recess.

3 (Recessed from 12:14 p.m. until 1:20 p.m.)

4 CHMN STAFFORD: Let's go back on the  
5 record.

6 Mr. Derstine, I believe we have a few  
7 exhibits left to cover.

8 MR. DERSTINE: Yeah, would you like to go  
9 through the exhibits?

10 CHMN STAFFORD: Let's see, we have -- I  
11 have everything from 1 through 21 has been covered. What  
12 we haven't discussed is 22, 23, 24, 25, 26, 29, 30, 31,  
13 32, and 34.

14 MR. DERSTINE: Yup. If you'd like, I can  
15 walk through those and tell you some of those will be  
16 withdrawn.

17 CHMN STAFFORD: Okay.

18 MR. DERSTINE: Some of those I think have  
19 been covered, but tangentially. We didn't -- yeah, so  
20 let me -- starting with 22, is that what you said?

21 CHMN STAFFORD: Yes.

22 MR. DERSTINE: Okay. So the Exhibit APS-22  
23 is the North American Electrical Liability Corporation  
24 2023 long-term reliability assessment. Mr. Cole spoke to  
25 quoted language from that, and spoke to that as being

1 kind of the underpinning and support to help support the  
2 need for flexible natural gas as part of balancing of  
3 resources and the need for this project.

4 APS-23, similarly, was the 2023 Western --  
5 Western Assessment of Resource Adequacy by the Western  
6 Electricity Coordinating Council, similarly quoted from  
7 and spoke to by Mr. Cole in his testimony, and the quote  
8 from that was incorporated in his witness slides.

9 Happy to withdraw -- well, 24 and 25 -- no,  
10 withdraw 24. 25, 26 we did not speak to, those are  
11 simply articles that deal with new battery energy  
12 storage, resources that APS has entered into PPAs or  
13 tolling agreements, but I think, you know, Mr. Cole and  
14 Mr. Eugenis spoke to the amount of battery storage that  
15 APS is utilizing as part of its broad mix of diverse  
16 resources, but we didn't specifically speak to those, so  
17 I'm happy to withdraw those.

18 CHMN STAFFORD: All right.

19 MR. DERSTINE: 27 and 28 --

20 CHMN STAFFORD: We've covered those.

21 MR. DERSTINE: Those were covered in the  
22 testimony today. 29 and 30 were simply recent articles  
23 dealing with new peaks hit by APS and some of the other  
24 utilities in the area. Mr. Cole testified about the  
25 number of times that APS has hit a new peak and as well

1 as the hitting the peak I believe on August 4th of this  
2 year, but I'm happy to withdraw those.

3 CHMN STAFFORD: All right.

4 MR. DERSTINE: 31 was -- we'll withdraw  
5 that as an exhibit. It may be planned to be used in the  
6 event that WRA participated in the case, same for APS-32.  
7 We've covered APS-33 through Mr. Spitzkoff's testimony.  
8 Withdraw 34. 35 is the revised proposed Certificate of  
9 Environmental Compatibility that incorporates the two WRA  
10 hydrogen-related Conditions that we've agreed to with  
11 WRA.

12 CHMN STAFFORD: All right. With that, so  
13 let me make sure we're clear, exhibits APS-24, 25, 26,  
14 29, 30, 31, 32, and 34 are withdrawn?

15 MR. DERSTINE: Yes.

16 CHMN STAFFORD: And then all the rest are  
17 admitted.

18 MR. DERSTINE: Thank you.

19 CHMN STAFFORD: APS-1 through 11, APS-12  
20 through 22, APS-23, 27, 28, 33, and 35, specifically, are  
21 admitted.

22 MR. DERSTINE: Sounds correct.

23 (Exhibits APS-1 through APS-23, APS-27  
24 through APS-28, APS-33, and APS-35 were admitted  
25 into evidence.)

1 CHMN STAFFORD: Okay. Are there any  
2 additional questions from members?

3 MR. DERSTINE: Mr. Chairman, I think you  
4 had a question on kind of the plant operations and the  
5 reason for -- well, you had indicated there were recent  
6 questions from members and that you had one or two.

7 CHMN STAFFORD: Yeah, I think -- I think  
8 there was some confusion about why you're adding eight  
9 smaller units as opposed to -- and running them less, as  
10 opposed to having fewer units, even the same size and  
11 just running them more.

12 Would you like to, if you could have  
13 someone address that. I think it has to do with  
14 capacity, but I'd like to hear it from your witness.

15 MR. DERSTINE: I notice that Member Kryder  
16 is not present, did -- maybe if we wanted to wait for him  
17 or he may be tied up on a call or something else.

18 CHMN STAFFORD: We're kind of on a time  
19 crunch here, so let's --

20 MR. DERSTINE: Yeah, I'll have Mr. Cole  
21 address the question.

22 CHMN STAFFORD: And then after he gives his  
23 answer, Member Fontes has a question.

24 MR. DERSTINE: All right.

25 MEMBER FONTES: It's related --

1 Mr. Chairman and Mr. Cole, or Brian, to the question that  
2 was posed by Mr. Derstine.

3 MR. COLE: Okay. So Chairman, Committee  
4 Members, as I understand it, the question is why not  
5 build two units, two LM6000s and operate them more,  
6 because we're talking about 20 percent capacity factor  
7 versus building eight units. And the answer is really  
8 that we need to be able to have, I'll call it, rounded up  
9 400 megawatts, during those summer times, right.

10 So I mentioned the deficit of capacity that  
11 we've got, and so the reason that we need all eight units  
12 is to be able to run them up to their full capability.  
13 And so it's not about how much I run them or the volume  
14 of energy that I put out over time, it's when I get it,  
15 and so that's for the ramp-up, ramp-down, it's for the  
16 variability, but most importantly, it's for that capacity  
17 of peak that I really need it for. I hope that helps  
18 with the answer to --

19 CHMN STAFFORD: Yeah, because you draw the  
20 distinction between energy and capacity, that's the  
21 distinction here, that's why there's eight units that  
22 you'll run sporadically or at 20 percent capacity,  
23 roughly, as opposed to having two of them that you run 80  
24 or 90 percent capacity?

25 MR. COLE: That is correct.

1 MEMBER GOLD: Mr. Chairman, what I was  
2 discussing with Member Kryder, I think we clarified it,  
3 that you're running specifically at the period at night  
4 when the solar panels aren't -- no?

5 CHMN STAFFORD: It's not night, it's that  
6 late afternoon into the evening hours. Because when the  
7 solar -- the solar production drops off when the sun goes  
8 down, but the demand is still there because it's still  
9 hot, and people still run their AC. So they need to be  
10 able to pick up that difference quickly in a large  
11 amount, but then they can scale it back down at night  
12 when it's -- when it -- when it cools off and the  
13 air-conditioning is dropped off.

14 MEMBER GOLD: Exactly, Mr. Chairman.  
15 That's what we discussed over lunch that you can turn  
16 them all on from 7:00 to 9:00, when you need the peak  
17 power, and then turn them down. So you're really running  
18 100 percent or 90 percent of the time for a couple of  
19 hours, which gives you your 20 percent usage that you're  
20 talking about because it's only for a couple of hours  
21 during the night or during the evening.

22 MR. COLE: Yeah. You're both correct. I  
23 mean, that is absolutely why they're being used.

24 MEMBER GOLD: Yes, sir.

25 MR. DERSTINE: Okay. And, Member Fontes, I



1 apologize, if you could clarify or reframe your question  
2 for Mr. Cole.

3 MEMBER FONTES: Yeah, I just want to get a  
4 little more granular with this, Brian. My understanding  
5 is the Redhawk existing facility is load following for  
6 dispatch characterization and the new plant will be a  
7 peaker. Can you frame that up for the Members of the  
8 Committee on how those will be operated differently,  
9 given one's load following and the other one's going to  
10 be peaker? And then relate it back to the air emissions,  
11 because I think those are separate plants, as you  
12 previously described in the various items that we  
13 discussed. I just want to get a sense of the operational  
14 distinction for the members of the Committee. Thank you.

15 MR. COLE: Sure, Committee Member Fontes.  
16 And maybe, to frame it a little bit better, to some  
17 degree all generating plants are load following, right,  
18 because at the end of the day we have to generate as much  
19 as our customers need. So I think what Committee Member  
20 Fontes is referring to, though, is sometimes we put the  
21 Redhawk units on something called automated generating  
22 control, which is AGC, and that allows them to stay  
23 synced to where I need them, right, so I don't have to  
24 have somebody constantly changing them. And so they'll  
25 be able to be on and operating and follow the load, so to

1 speak.

2           The peaking units are a little bit  
3 different, because they're going to be used more  
4 sporadically. They're not going to be used as regular.  
5 During the summer the Redhawk combined cycles are  
6 probably on every day. And the peakers, it depends, on  
7 how difficult a day it is and how much load we have from  
8 our customers. And so I think that's the differentiator.

9           As it relates to emissions, we're going to  
10 be running those combined cycle units more. They're more  
11 efficient units when they're running a two-on-one  
12 configuration. And so we'll use that as much as we can  
13 to fill in those bigger pieces of those graphics that I  
14 showed you on -- on day one. And then some of those peak  
15 areas and some of the variabilities and ramps that  
16 Mr. Eugenis pointed out, that's what the peakers will be  
17 used for.

18           So hopefully that helps, and that's what  
19 you're looking for me to describe, Committee Member --

20           MEMBER GOLD: Mr. Chairman?

21           MR. COLE: -- Fontes.

22           CHMN STAFFORD: Yes, Member Gold.

23           MEMBER GOLD: And for the record, your  
24 peaking units means your simple cycle units?

25           MR. COLE: That is correct.

1 MEMBER GOLD: Thank you.

2 MR. COLE: I just realized I was talking  
3 fast --

4 MEMBER HILL: Mr. --

5 MR. COLE: -- sorry about that.

6 THE REPORTER: If everybody could not  
7 interrupt, that would be great.

8 CHMN STAFFORD: Yes, remember to speak one  
9 at a time.

10 Member Hill?

11 MEMBER HILL: Thank you, Mr. Chair.

12 So the air quality permit covers the entire  
13 site, right? So you just have emissions that you -- you  
14 have a limit to emissions regardless of what generation  
15 type you're using on the site, right? Is that how the  
16 air permit works?

17 MR. COLE: So, Committee Member Hill, I'm  
18 going to do my best to answer this, and I'm going to look  
19 across the room to make sure I don't mess something up.  
20 The -- the air permit that is -- was discussed in the  
21 case here is an air permit just for these units. The  
22 other Redhawk units have their own air permit.

23 Is it totaled together?

24 Okay. So, again, not the expert. But if  
25 you want to jump up, Anne -- let's let the person who

1 knows talk about it.

2 MS. CARLTON: Thank you.

3 MR. COLE: I shouldn't have answered that.  
4 Thank you.

5 MS. CARLTON: Is it okay if I sit here?

6 MR. DERSTINE: If they say it's okay.

7 MS. CARLTON: Committee Member, thank you  
8 for the permission to sit here.

9 MS. DERSTINE: Member Mercer said it was  
10 fine.

11 MS. CARLTON: So we will have one air  
12 permit for the entire facility, both existing generation,  
13 as well as new generation, but what you'll see in the  
14 permit -- thank you, Mark -- what you'll see in the  
15 permit is that there will be separate emission-related  
16 conditions for the expansion and for the existing  
17 generation.

18 MEMBER HILL: Okay. So this kind of goes  
19 to -- and I might have a follow-up question here. I'm  
20 getting my thoughts together, hold on, because I want to  
21 make sure I ask it correctly, because I know enough to be  
22 dangerous. So we've talked about the peaker piece of  
23 this facility being roughly 20 percent --

24 MR. COLE: Capacity.

25 MEMBER HILL: -- capacity factor. If there

1 were enough resources on the grid and you decided not to  
2 use the combined cycle for a while, would you be  
3 using -- you could use the peaker facility instead and  
4 not violate the air permit, right, but that -- but then  
5 you might go beyond the 20 percent capacity factor, do  
6 you see what I'm saying? Like, just using the -- you get  
7 so many emissions for the site, so -- and it doesn't  
8 necessarily matter to me, but I just want to make sure  
9 that the record reflects the operations that we've talked  
10 about, I guess.

11 MR. COLE: Committee Member Hill, I'll  
12 start with the operational component, and stick to my  
13 lane where I should it be speaking. When we operate  
14 these units, both the combined cycle at Redhawk and the  
15 peakers at Redhawk, it depends on system conditions, so  
16 there still may be situations, and actually I think  
17 Mr. Eugenis actually showed some graphics where we were  
18 looking at a spring day. We still have significant  
19 ramping that has to occur. We may not need all of that  
20 energy that a combined cycle generates, and so we'll  
21 still use the peakers.

22 Now, as far as the limitations, even in  
23 those, so we've planned for that, and so even with that,  
24 we plan on -- sorry, I don't know where that came from --  
25 that 20 percent capacity factor that we are saying we are

1 going to stay within, we've planned for that within that  
2 type of operation.

3 MEMBER HILL: Okay.

4 MR. COLE: So if there's any further  
5 specifics on air permit, I'm going to pass it over to the  
6 one who really knows.

7 MEMBER HILL: No, I'm just trying to  
8 visualize and imagine operations and overlapping  
9 permitting and, you know, when we do these CECs, it feels  
10 usually really discrete, but now we're kind of looking at  
11 two different generation types that share certain permits  
12 and maybe don't share other permits, so I was just trying  
13 to think of how that operates together, so -- thank you.

14 CHMN STAFFORD: Member Fontes, you have  
15 your hand raised?

16 MEMBER FONTES: Mr. Chairman, thank you.

17 I have a question, Mr. Derstine, and maybe  
18 Mr. Van Allen can address this. We're talking about air  
19 emissions here -- I understand what the permit says, that  
20 was very informative -- but how are the controls on the  
21 plant going to be designed? Are they going to be  
22 separate monitoring for the peaker plant, and those  
23 individual units from that that the -- what I'll refer to  
24 as the load-following base plant, and then how are they  
25 going to be reported for monitoring? Thank you.

1 MR. DERSTINE: Thank you, Member Fontes.  
2 I'm going to let Mr. Van Allen speak to that, but first  
3 give you my understanding, because we did have some  
4 discussion about how will the separate units be  
5 controlled. It's my understanding that they will have  
6 separate control areas.

7 Q. But fill us in, Mr. Van Allen; is that correct?  
8 And give us a little more detail.

9 A. (MR. VAN ALLEN) Mr. Derstine and Member Fontes,  
10 we're intentionally keeping the control system for the  
11 new peaking units separate from the existing units, and  
12 that includes the emission control system, and the CEMS  
13 system, which is the continuous emission monitoring  
14 system, that includes what's known as a data acquisition  
15 handling server. It's a server that records the  
16 emissions on a minute-to-minute basis that was described  
17 by Ms. Carlton previously.

18 So it will, for all intents and purposes, be a  
19 stand-alone facility adjacent to the existing facility,  
20 from a control perspective.

21 Q. And from an emissions monitoring perspective?

22 A. (MR. VAN ALLEN) That is correct.

23 MEMBER HILL: And then from a reporting --  
24 pardon me.

25 MEMBER FONTES: Yeah, reporting, thank you.

1 I appreciate that.

2 MR. VAN ALLEN: So I defer to Ms. Carlton  
3 to speak to the reporting part.

4 MS. CARLTON: Thank you for the questions,  
5 Members. So the -- I think one thing to clarify is that  
6 though the facilities will be -- I would consider, you  
7 know, to be separated per Mr. Van Allen, the each  
8 individual units will also be monitored individually, and  
9 so they will not be monitored collectively. Data would  
10 be consolidated, as required.

11 So something like our fuel-burning limit,  
12 where it's across the eight turbines would be calculated  
13 individually for each turbine, and then consolidated, and  
14 this is done essentially immediately so we can pull live  
15 reports. Reporting requirements under our Title V permit  
16 will exist for the existing facility, as well as the  
17 expansion. And the reports, some of them, thank you, are  
18 monthly, some of them are quarterly. We have biannual  
19 reporting requirements, as well as annual reporting  
20 requirements. And then most of the -- all of the reports  
21 go to Maricopa County. Some of the reports also go to  
22 the environmental protection agency or the EPA.

23 MEMBER FONTES: Are they reported by the  
24 unit or by the facility, Ms. Carlton? I was unclear on  
25 your answer. It's very thorough, I appreciate your



1 context, but just want to drill down on that.

2 MS. CARLTON: Sure.

3 So it would be dependent on what the permit  
4 condition is. And so for something like a 2.3 PPM limit  
5 that we have for a one-hour limit, that's going to be  
6 based off the CT itself. So that would be reported  
7 individually for each turbine, whereas, if we have a  
8 collective requirement, so maybe eight tons per year  
9 across the eight turbines, that would be reported all  
10 aggregated. So it's truly permit condition, permit  
11 condition dependent.

12 MEMBER FONTES: That makes sense. But so  
13 just to summarize -- and I want to make sure I've got  
14 this right, Mr. Derstine -- the sensors and controls are  
15 at the individual units, but then the reporting, as  
16 Ms. Carlton's characterized it, depends upon the -- the  
17 required report in terms of how you report the data?

18 MR. DERSTINE: I'll let -- I'll let our  
19 witnesses respond to that.

20 Q. Do you agree with Member Fontes's  
21 characterization?

22 A. (MS. CARLTON) Yes, that is correct.

23 MEMBER FONTES: I appreciate that. I just  
24 wanted to clarify that for my fellow members here, in  
25 terms of that plant build-out and then the monitoring and

1 reporting to complete the picture.

2 Thank you very much.

3 MR. DERSTINE: Thank you.

4 CHMN STAFFORD: And the annual emission  
5 limits, that applies to the project and the existing  
6 Redhawk facility?

7 MS. CARLTON: Thank you, Chairman. We will  
8 have, again, two sets of conditions that would represent  
9 tons per year or 12-month rolling, and they will be laid  
10 out in our permit to reflect CTs 1 through 8 versus  
11 combined cycles 1 and 2. There will be separate  
12 conditions for each of those.

13 CHMN STAFFORD: But is there a -- and then  
14 the fuel limit is across the entire -- across both -- the  
15 fuel limit on the air permit is across both the combined  
16 cycle and the simple cycles, correct?

17 MS. CARLTON: The fuel limit that limits  
18 the new CTs to 20 percent, or it's actually 19.4 percent,  
19 is only applicable to the combustion turbines in the  
20 expansion project.

21 CHMN STAFFORD: Okay.

22 MS. CARLTON: The combined cycles do not  
23 have a fuel-burning limit.

24 CHMN STAFFORD: At all?

25 MS. CARLTON: At all.

1 CHMN STAFFORD: Any other questions,  
2 Members?

3 (No response.)

4 CHMN STAFFORD: All right. Well, I think  
5 with that, Mr. Derstine, we are ready for your closing.

6 MR. DERSTINE: Were there any other wrap-up  
7 or outstanding questions that anyone can think of that we  
8 failed to address?

9 (No response.)

10 MR. DERSTINE: I think we've covered it.  
11 Okay.

12 CHMN STAFFORD: Oh, Member Fontes has his  
13 hand up again.

14 MEMBER FONTES: I do. And I appreciate  
15 you, Mr. Derstine.

16 Expansion, in your closing can you address  
17 that? Because we're talking about two separate power  
18 plants for -- for construction and for operations, for  
19 dispatch, for accounting and finance. I get it's a site  
20 expansion, but then we've got a separation of two plants  
21 and two assets, based on the way APS operates and other  
22 utilities. So if you could include that in your thinking  
23 in your -- just to help me understand what is part of the  
24 expansion and what is separate.

25 Thank you.

1 MR. DERSTINE: Well, rather than me wading  
2 into uncharted territory that I may not be capable of  
3 dealing with in a closing, let alone just don't have the  
4 knowledge for.

5 Q. Mr. Cole or Ms. Carlton, can you speak to that  
6 issue?

7 A. (MR. COLE) Yeah, Mr. Derstine and -- and Member  
8 Fontes, I assume you're referring to more of the, I'll  
9 call it the accounting side of the plant separation, and  
10 is that -- let me ask, is that correct before I --

11 MEMBER FONTES: What I'm looking at, Brian,  
12 is to -- we're using the term "expansion" and we're in a,  
13 you know, formal proceeding here. How are we defining  
14 that? And I don't mean to get into, like, a legal  
15 defined term, but it seems like the plant is going to be  
16 designed, constructed, operated, and then monitored  
17 separately in some aspects, but then we use the term  
18 "expansion."

19 So I guess I'm looking for some borders  
20 around that so as we take into factor our deliberations  
21 on conditions and then we start looking at the CEC, how  
22 do we use the term "expansion" here? I'm just struggling  
23 with that, and you see where my question is, I'm just  
24 trying to make sure that we've got a clear understanding  
25 of that, so when we get into our deliberations we can

1 give you your desired outcome in a clean format.

2 So that's where I'm coming for. I hope  
3 that's useful, Mr. Derstine, as well, since you're lead  
4 counsel there.

5 MR. DERSTINE: That's helpful. So maybe  
6 I'll do my best to address it, and then Mr. Cole can fix  
7 anything that I mess up.

8 From my perspective, from a legal  
9 perspective, and for this proceeding, we are here on the  
10 application for what we have, for naming purposes, simply  
11 identified as the Redhawk Expansion Project. And so it's  
12 given that name simply because these new eight simple  
13 cycle units will be sited -- assuming this Committee sees  
14 fit to grant a CEC for the project -- will be sited,  
15 approved to be constructed, constructed and operated  
16 within the existing confines of the Redhawk Power Plant.

17 The Redhawk Power Plant was built in the  
18 early 2000s under a prior CEC, CEC 95. This CEC will  
19 specifically authorize the construction of the new units,  
20 the eight simple cycle units in the areas identified. We  
21 have attached a number of maps, which show the location  
22 of the, quote-unquote, expansion project within the  
23 confines of the existing plant.

24 And then we have described through our  
25 testimony and exhibits what will be built within that

1 inner portion of the existing plant. And so this CEC, to  
2 my way of thinking, is -- what's up for consideration by  
3 the Committee is whether to approve the construction of  
4 the new eight simple cycle units at the location within  
5 the existing perimeter of the existing Redhawk Power  
6 Plant, with the associated common infrastructure or new  
7 infrastructure that's required, and that's really the  
8 scope of the application.

9 Does that answer your question? Does that  
10 frame it?

11 MEMBER FONTES: I think that's extremely  
12 useful, and thank you for indulging me in that. Just --  
13 we're going to get into project description and we're  
14 going to start deliberating on the Conditions, but it  
15 really puts a box around it.

16 But I would also ask, does anybody have  
17 anything else they want to add from the APS team that  
18 might be useful for us along those lines? Mr. Chairman,  
19 do you have anything? Because I think this is something  
20 I've been wrestling with here is just that we get that in  
21 our frame of mind for our description in particular in  
22 the Conditions.

23 CHMN STAFFORD: Right. I guess that kind  
24 of gives me additional questions.

25 How much equipment will be shared between

1 the existing facility and the expansion, the project  
2 that's before the Committee today?

3 MR. DERSTINE: I think Mr. Van Allen, and  
4 he'll add to it if, again, if I misspeak. What's been  
5 identified is that the Redhawk Expansion Project will  
6 share and will benefit from the existing natural gas  
7 infrastructure that's at the Redhawk Plant site. It will  
8 benefit from and utilize, to some degree, the existing  
9 electrical infrastructure in terms of the generation tie  
10 line that runs from the existing plant over to the  
11 Hassayampa Switchyard.

12 There will be some, as Mr. Spitzkoff  
13 indicated, construction of the addition of a transformer,  
14 and some of the related electrical infrastructure needed  
15 to connect to the expanded switchyard, so the existing  
16 switchyard will be expanded. But in terms of what the  
17 new project will rely upon, it's really the land, the  
18 natural gas infrastructure that's already there, the  
19 groundwater rights that are already there, and then some  
20 of the existing electrical infrastructure that allows for  
21 the interconnection without the need for new transmission  
22 lines.

23 CHMN STAFFORD: It seems to me that this is  
24 almost -- this CEC would almost be like an amendment to  
25 the existing one, because if you look at the -- a

1 Certificate has already been issued for the site and it  
2 includes the site of the project. So I'm just trying to  
3 be mindful of how to -- how we're going to define the  
4 relationship between the prior CEC and this CEC.

5 MR. DERSTINE: Yeah. Well, certainly, the  
6 prior CEC authorized what's there today, and the  
7 operation of what's there today. The existing Title V  
8 permit covers the operation that's there today, as  
9 Ms. Carlton testified, we're going to revise that  
10 operating permit. But, again, in many ways the two  
11 projects are going to be treated and reported separately,  
12 depending on the relevant pollutant or the category.

13 So in many ways they're separate projects,  
14 but you're right, it's certainly one of the  
15 considerations that we had at the beginning was should we  
16 go in and just seek an amended CEC for this. And the  
17 decision was made, given the passage of time and what  
18 we're proposing, it made sense to come before you and  
19 seek a new CEC.

20 But in terms of what modifies the original  
21 CEC 95 -- excuse me, that pasta is still with me -- I  
22 don't know that there's anything in this new project that  
23 modifies CEC 95, other than to say that this CEC  
24 authorizes the construction of this project at that site.  
25 I hope that answers your question, Member Fontes.



1 CHMN STAFFORD: I think so.

2 MEMBER FONTES: It does. I really  
3 appreciate that. And it helps, I think, clarify our  
4 thinking as we deliberate on the next steps here.

5 Appreciate it.

6 MR. DERSTINE: Thank you.

7 CHMN STAFFORD: I'm just trying to think, I  
8 think the Conditions that were imposed in the prior CEC  
9 would also be applied to this CEC, because it's a subset  
10 of the existing site, but I think that every new CEC that  
11 comes out has at least the Conditions that were attached  
12 to CEC 95, and typically, significantly more. I think  
13 there's only a couple of Conditions on 95, if my memory  
14 serves correct.

15 MR. DERSTINE: Your memory serves correct.

16 CHMN STAFFORD: Okay. So I guess, then, it  
17 would be your position that any Conditions in this CEC  
18 would only apply to the subset of the land of this  
19 project, this plant that we're considering today, as  
20 opposed to the existing plant?

21 MR. DERSTINE: That's correct.

22 CHMN STAFFORD: All right.

23 MR. DERSTINE: So certainly the Conditions  
24 that were in place under 95 can and should apply to this  
25 project. But in terms of the Conditions under this new

1 CEC, those would apply specifically and only to this  
2 project.

3 CHMN STAFFORD: Okay. And then I guess  
4 that kind of brings me to my next question about the  
5 proposed condition that you agreed to with WRA.

6 MR. DERSTINE: Uh-huh.

7 CHMN STAFFORD: I think it specifically  
8 references the project, meaning the peaker units.

9 MR. DERSTINE: Correct.

10 CHMN STAFFORD: But would it also include  
11 the combined cycle units or are those specifically  
12 excluded from this, and if so, is it more or less likely  
13 that you would -- hydrogen would be used for a peaking  
14 unit, as opposed to a combined cycle unit? I guess  
15 that's a question that your witness will have to answer,  
16 the last part of it.

17 MR. DERSTINE: Yeah, I -- yeah, I think  
18 Mr. Cole would have to answer whether or not it's more or  
19 less likely that hydrogen someday maybe in the future,  
20 could be blended and utilized in the combined cycle  
21 units, I don't know. I will say that we've -- that  
22 Condition was negotiated with WRA specifically for the  
23 new peaking units, the new eight simple cycle units,  
24 because those are -- come from the manufacturer hydrogen  
25 capable of that blend up to 35 percent.

1 CHMN STAFFORD: And I would go -- I'll  
2 leave it to Mr. Cole to answer the question, but I would  
3 venture to guess that the CTs for the combined cycle are  
4 different and may not be so accommodating?

5 MR. COLE: Chairman and -- that is correct.  
6 And you kind of asked me to handicap a little bit what  
7 are the odds, and the reality is that the CTs that are  
8 part of those combined cycles that were manufactured  
9 25 years ago are not the same type of CTs that these are.  
10 They don't come prepared for up to 35 percent hydrogen.  
11 If there were ever an opportunity to do something related  
12 to hydrogen, that would probably be a complete  
13 change-over of equipment there. And in that case that  
14 would, I believe, fall under the need for an amendment to  
15 the CEC for those units. And so in this case, these  
16 coming capable of 35 percent is the reason why the item  
17 within the CEC that we're talking about here should apply  
18 to them.

19 Does that make sense?

20 CHMN STAFFORD: Yeah, yeah, that's kind of  
21 my thought. And I guess I'm interested from  
22 Mr. Derstine, do you agree with your witness's legal  
23 assessment that the difference -- that a significant  
24 change of that nature to the existing combined cycle  
25 units would -- should entail an amendment to that, to CEC

1 95?

2 MR. DERSTINE: I have more than once  
3 indicated that Mr. Cole is maybe a better lawyer than I  
4 am, but I think on that point I would agree with him.

5 CHMN STAFFORD: I see Ms. Doerfler. I  
6 think I'd like to ask her what WRA's motivation --  
7 primary concern was that they addressed with this  
8 amendment that this Condition that you and APS and WRA  
9 agreed to.

10 Ms. Doerfler?

11 MS. DOERFLER: Hi. Emily Doerfler here  
12 representing WRA. So we drafted these two Conditions  
13 with a concern that there were multiple -- what's the  
14 word I'm looking for -- mentions, I guess I could say, of  
15 hydrogen, and its compatibility with the units that are  
16 being proposed for this project.

17 Our first Condition concerns a report about  
18 using hydrogen-blended fuel. At the end of the day, we  
19 really know so little about hydrogen fuel, and especially  
20 with its use at natural gas facilities. And so our hope  
21 with Condition 23 and 24 here was to provide common sense  
22 guardrails on APS's future exploration of hydrogen and  
23 the use of hydrogen-blended fuel, specifically at Redhawk  
24 facility.

25 At the end of the day, these are very

1 unknown entities, very unknown usage -- usages of this  
2 fuel, and so we were hoping that this Committee could be  
3 informed of the realities of this burning of hydrogen  
4 fuel if it is to occur before it would occur rather than  
5 maybe after the fact.

6 CHMN STAFFORD: Thank you.

7 Do any other members have a question for  
8 Ms. Doerfler?

9 (No response.)

10 CHMN STAFFORD: Thank you.

11 Any further questions from Members,  
12 otherwise, we're ready for Mr. Derstine's closing?

13 (No response.)

14 CHMN STAFFORD: Hearing none --

15 MR. DERSTINE: All right.

16 CHMN STAFFORD: Please proceed.

17 MR. DERSTINE: Well, I had a very, in  
18 anticipation that we might finish today, I had a very  
19 short closing. I won't go too much longer than that but  
20 I was just going to say thank you and we ask for your  
21 vote, but I may add a little more to it than that, given  
22 we've got a few minutes.

23 So I will start with a thank you. We made  
24 it, you made it. We're here at the end of the case. We  
25 want to just say thank you. We understand, I mentioned

1 in my opening that, you know, this Committee was  
2 before -- was down in Pinal County, had four full days of  
3 hearings then and you're back here again hearing the  
4 Redhawk Expansion Project. So we thank you. We  
5 understand this is a big commitment of time. You folks  
6 have important things you do outside of this forum, and  
7 this is important work, important for the state,  
8 important for the people of Arizona, and so we appreciate  
9 it. And so thank you.

10 And I guess I would be remiss if I didn't,  
11 on behalf of Ms. Benally, the entire APS team, all of our  
12 witnesses, a lot went into this case presentation, we  
13 hope it was helpful. We hope we have given you the  
14 information you need, but yeah, we took this very  
15 seriously, and this was an important case for APS, its  
16 customers, and again, we thank you for hearing our case.

17 The case is about, and we've touched on it  
18 here just a minute ago, what's the project? And I  
19 appreciate Member Fontes asking for us to really define  
20 what the project is. It's eight new simple cycle LM6000  
21 generating units that will be located at the existing  
22 plant site. And you've seen the maps and we will have  
23 maps attached to the proposed CEC that define where those  
24 projects -- where those units will be constructed within  
25 the existing plant.

1           The new units will utilize existing plant  
2 infrastructure, natural gas pipeline, water rights,  
3 transmission facilities. And the new units will utilize  
4 state-of-the-art emission controls, and you've heard  
5 testimony on those -- all those subjects.

6           The location of the Redhawk Plant, and  
7 you've seen this aerial photo before, but it sits in a  
8 pocket of power plants and solar fields. The Mesquite  
9 Plant, the Arlington Valley Plant, and Redhawk were all  
10 constructed at or about the same time. They're all  
11 combined cycle plants. And then in the following years,  
12 solar fields, solar generation, battery storage has come  
13 to fill in the spaces in between. But you also heard the  
14 testimony was that that this area is it sparsely  
15 populated. The closest resident is 1.8 miles away and  
16 most of the remaining residents are two miles or more  
17 away from the plant site.

18           I can't describe the project need any  
19 better than it's set forth in the application. The  
20 application reads, "The project ensures that APS has the  
21 reliable generation capacity to respond to fluctuations  
22 in load demand and intermittent resource output and can  
23 reliably supply power during periods of peak demand."

24           In my opening I also mentioned that there  
25 are folks who would oppose a project like this, any

1 natural gas facility, just on principle, and we  
2 understand that. But using the quote here that utilities  
3 have a pretty good track record of being lazy thinkers,  
4 and a gas-fired power plant is 2008's answer to energy  
5 problems, I hope that and I believe that the testimony  
6 you heard from Mr. Cole and Mr. Eugenis dispelled that  
7 myth.

8           This -- this project is not the product of  
9 lazy thinking. It's the product and the result of  
10 detailed resource planning, an All-Source RFP, in which  
11 this project was evaluated head to head with other  
12 projects. And this project became part of a diverse  
13 portfolio of various resources that include large amounts  
14 of solar, wind, battery storage. This is not 2008.

15           We saw this slide from Mr. Eugenis's  
16 presentation. This underscores the mix of diverse  
17 resources that were identified in the IRP, 2023  
18 Integrated Resource Plan. That diverse mix does include  
19 natural gas. So the IRP identified natural gas, in  
20 addition to these large amounts, 3,500 megawatts of  
21 solar, 3,000 megawatts of battery, distributed energy,  
22 wind, and demand response. So this is not a knee-jerk  
23 reaction, we just need to go build more gas.

24           Then the Redhawk Expansion Project was  
25 evaluated through the All-Source RFP through the



1 sophisticated modeling that Mr. Eugenis loves to talk  
2 about, and was analyzed head to head with other projects.  
3 And again, it came out as and was selected as part of a  
4 very diverse mix of resources.

5           So in simple terms, the project need, this  
6 is a relatively small but critical part of a diverse  
7 resource mix that APS will use to ensure reliable service  
8 for its customers. The need was identified through the  
9 IRP, and the project was selected through the All-Source  
10 RFP. It's a critical resource that ensures that APS has  
11 the reliable generation capacity to meet demand under a  
12 range of possible conditions. And that language is  
13 pulled from the WECC reliability or the adequacy  
14 assessment.

15           So that's the need for the project. How  
16 the project was selected. What did you hear in terms of  
17 the testimony about the compatibility, the factors that  
18 the Committee is directed to consider in evaluating  
19 whether or not you're willing to grant a CEC for the  
20 project? The testimony you heard is that the expansion  
21 project is indeed environmentally compatible. You heard  
22 that from Mr. Turner in his testimony this afternoon.

23           The project is located within industrial  
24 zoned lands within the existing Redhawk Plant site. So  
25 unlike, potentially, other projects that are being

1 developed on a new site, this is within an existing  
2 industrial site. And the results -- the results of that  
3 is that there are minimal impacts to existing and planned  
4 land use, minimal impact to biological resources, minimal  
5 impact to visual, noise, and recreation, as well as  
6 cultural resources.

7 I want to -- I don't know where she went,  
8 there she is, I want to thank Ms. Carlton for her  
9 patience in trying to lead me through and give me some  
10 understanding of the air permitting process and the  
11 complexities of that. I appreciated her testimony, and I  
12 thought she did a very nice job. The fact is that the  
13 Redhawk Plant is covered by a Title V permit. That  
14 permit will have to be revised to include the expansion  
15 project. She detailed how those -- the monitoring of the  
16 separate plant units will occur.

17 But the air permit application demonstrates  
18 the total impacts are below National Ambient Air Quality  
19 Standards, as well as the potential for significant  
20 deterioration increments. And I'll leave it to her to --  
21 I still don't understand what all that means, but it's  
22 true.

23 Groundwater, you heard from Mark Nicholls  
24 our hydrologist. Mr. Nicholls testified about the fact  
25 that the expansion project we use an additional 300 acre

1 feet of groundwater per year at the -- under APS  
2 certified water rights, which are for 3,356 -- excuse  
3 me -- acre feet per year. And the bottom line, in terms  
4 of this Committee's consideration, is that 360.13 says  
5 you need to consider that if a project is going to use  
6 groundwater, does it comply with the management plan and  
7 is -- does it negatively impact or unreasonably impact  
8 groundwater availability. And Mr. Nicholls testified  
9 that, based on his analysis and modeling and his testing,  
10 the groundwater is available, and the use for the  
11 expansion project will not unreasonably impact  
12 neighboring wells or groundwater availability.

13           Transmission and interconnection,  
14 Mr. Spitzkoff testified that no new transmission lines,  
15 term of art under our statute, are needed to deliver  
16 energy to the grid. Mr. Spitzkoff testified about the  
17 reliability studies that have been performed, and that  
18 those studies show the project will reliably connect to  
19 the grid. So we've touched on the WRA Conditions that  
20 APS has agreed to. I think, as Ms. Doerfler indicated,  
21 we had discussions with WRA about wanting to put, as she  
22 used the term, guardrails around the potential future use  
23 of hydrogen. APS agreed to those Conditions and we're  
24 proposing a CEC that includes them.

25           The bottom line is, as Mr. Cole has

1 testified, and Mr. Eugenis, APS has a clean energy goal,  
2 but there will need to be significant advancements in  
3 technology, whether that's fuels, sequestration, emission  
4 controls, to allow them to get there to reach that goal.  
5 But they take that goal seriously, and that may be one of  
6 the paths to reaching that clean energy goal is hydrogen.  
7 So we've agreed to include that Condition in this CEC.

8           The remaining Conditions in the proposed  
9 form of CEC are the basic standard Conditions. I know  
10 you had a number of Conditions that this Committee worked  
11 through with the applicant last week. We think that  
12 there's, as I mentioned at the outset, significant  
13 differences between this project and last week's project.  
14 And our view is that, for the reasons that I just went  
15 through, this project, the expansion project, should be  
16 granted a CEC under kind of the basic standard  
17 Conditions. We're certainly open to hearing discussion  
18 about any concerns the Committee Members have. But we  
19 think some of the Conditions that were raised last week  
20 do not fit this project. So that's it.

21           I just thought I would mention this is the  
22 first siting of a new natural gas generation by APS since  
23 APS obtained a CEC for the Ocotillo Modernization  
24 Project, and that was in 2014. Now, last year APS  
25 amended the CEC for the Sundance Plant, but that was to

1 construct two units that were originally authorized, but  
2 never built. And so we went back, amended the CEC to  
3 extend the term to build those two originally authorized  
4 units. But this is the first time that APS has been back  
5 since 2014 to seek authorization to build new natural gas  
6 units.

7 We're not relying on 2008 solutions to  
8 energy problems. APS is relying on an all-in strategy  
9 for providing reliable, affordable service to its  
10 customers, that are based on the foundational principles  
11 that Mr. Cole identified, and that are in line with and  
12 informed by a detailed Integrated Resource Plan, and that  
13 have been vetted through an All-Source RFP process.

14 So we're here to ask that you grant a CEC  
15 for the project, and again, we thank you for your time.

16 CHMN STAFFORD: Thank you.

17 I see Ms. Doerfler on my screen, were you  
18 wishing to make a closing statement?

19 MS. DOERFLER: Something very short, I  
20 promise.

21 So APS has spent the last few days  
22 detailing what it knows about the possible impacts that  
23 the addition of eight new turbines to the Redhawk Power  
24 Plant could have on the surrounding community and  
25 environment. I encourage this Committee to also consider

1 what APS does not know, what APS cannot know at this  
2 time. Due to the novel and uncertain nature of burning  
3 hydrogen fuel at a natural gas facility, APS cannot  
4 currently know certain details concerning the possible  
5 burning of hydrogen-blended fuel at the Redhawk Power  
6 Plant. WRA's concerns surrounding the possibility of  
7 burning hydrogen-blended fuel led to WRA's intervention  
8 in this case, as well as its subsequent negotiations with  
9 APS mentioned in my opening statement on Monday.

10           The two Conditions listed as Condition No.  
11 23 and Condition No. 24 that APS has added to its  
12 proposed CEC addresses many of WRA's concerns. Condition  
13 23 mandates a recording requirement if APS opts to use  
14 hydrogen-blended fuel for normal operations at the  
15 project. The report will address the economics, the  
16 feasibility, and the safety of burning a mix of hydrogen  
17 fuel and will be filed in this docket 120 days in advance  
18 of those operations. This will improve the transparency  
19 of APS's exploration of hydrogen-blended fuel at Redhawk.

20           Condition No. 24 requires APS to obtain and  
21 modify a CEC under certain circumstances, such as  
22 significant modifications to the Redhawk Plant as a  
23 result of APS's choice to burn a hydrogen-blended fuel.  
24 Recently which plants are and are not required to obtain  
25 a CEC have been called into question. This Condition

1 ensures that a review of the effects of burning  
2 hydrogen-blended fuel will have on the surrounding  
3 community and environment will occur prior to any major  
4 modifications to the plant.

5           These Conditions provide, like I said,  
6 common sense guardrails for APS's future exploration of  
7 hydrogen in relation to this plant. It is WRA's hope  
8 that this Committee will see the value in these  
9 Conditions, and will honor the agreement between APS and  
10 WRA, by including Conditions 23 and 24 in the CEC that it  
11 may soon grant this project.

12           With the inclusion of these Conditions, WRA  
13 does not oppose the granting of that CEC. In addition, I  
14 would like to thank the Committee for their time and  
15 effort during this process. We very much appreciate your  
16 inclusion in the build-out of these major facilities.

17           CHMN STAFFORD: Thank you.

18           All right. Members, let's have -- I'd like  
19 to have a discussion about potential Conditions. We had  
20 an extensive discussion about it last week, but I think  
21 Mr. Derstine and Ms. Doerfler are right, this is a  
22 different -- different animal. And for me, the big, the  
23 key difference is that they're building on an already  
24 certificated site. There's been some disagreements  
25 between this Committee and the Commission about what a

1 plant is, and whether a CEC is required. I think that  
2 that dispute will ultimately be resolved by the courts,  
3 and I think that the Committee got it right. I think  
4 that the project is a plant and it does require a CEC. I  
5 think we need to talk about how -- if it will be with the  
6 new CEC would be an amendment to an existing CEC or a new  
7 CEC that carves out a chunk of the prior one, because  
8 it's -- the new plant will be built entirely on land  
9 that's already received a certificate, but it's  
10 significantly different from what's already built there.  
11 So I think it was definitely appropriate to have this  
12 proceeding and address the environmental impacts of these  
13 new -- eight new units.

14 In terms of additional Conditions, I'm  
15 interested to hear from Members if they think we should  
16 be -- are there any other Conditions that we should be  
17 talking about imposing on this CEC, other than what we  
18 have before us in the proposed CEC? I think the  
19 Conditions that APS and WRA agreed to are reasonable.  
20 And I think it's reasonable for us to adopt them. Do  
21 Members have thoughts about other -- other proposed  
22 Conditions?

23 MEMBER GOLD: Mr. Chairman?

24 CHMN STAFFORD: Yes, Member Gold.

25 MEMBER GOLD: I agree with you about the



1 Conditions being adopted, but I do have a question, maybe  
2 something that -- Ms. Dormer?

3 CHMN STAFFORD: Doerfler.

4 MEMBER GOLD: Ms. Doerfler could respond  
5 to. I realize that excess energy can be converted into  
6 hydrogen, and that's where the hydrogen is supposed to  
7 come from, this extra energy that the solar plants are  
8 producing, but to my understanding, and I may be wrong,  
9 this energy requires the use of water to get the  
10 hydrogen. And we are in an area where water is a  
11 critical commodity.

12 And when you use excess energy to create  
13 hydrogen, you're using basically electrolysis, you're  
14 taking water out of the system and converting it into  
15 hydrogen and oxygen. I realize that we can use the  
16 hydrogen as a fuel, and I'm sure there's people who can  
17 use the oxygen that's created, but just keep in mind that  
18 it does use water to do this.

19 Am I misunderstanding something here?

20 MS. DOERFLER: Thank you, Member Gold.

21 That is exactly one of WRA's concerns, frankly. We are  
22 not opposed to the use of hydrogen, but we would rather  
23 look at the use of hydrogen on a case-by-case basis to  
24 ensure that it is an intelligent use and that it  
25 addresses all of the concerns that you are voicing now.

1 The -- I believe that the report that APS would need to  
2 file concerning the feasibility of using hydrogen should  
3 probably address the fact that we are in a drought area.  
4 We are in a desert, and a maximum amount of hydrogen fuel  
5 is a massive amount of water. So I agree that you are  
6 correct that it does use water, and that is a  
7 consideration that we should all keep in mind.

8 MEMBER GOLD: Thank you so much for that.

9 CHMN STAFFORD: Member Gold, I think the  
10 case we had where there was a solar developer that was --  
11 had a -- while we didn't site the solar facility, we did  
12 site the transmission line, and was there a switchyard  
13 for that one, I can't recall, but there was a  
14 transmission line, and they were considering adding a  
15 hydrogen production facility at their site. And we did  
16 impose an additional condition on them to re- -- and it  
17 was outside an active management area, so we did impose a  
18 Condition that any contract they entered into with a  
19 hydrogen provider they would have to report the water  
20 usage.

21 And so that was a Condition that's not  
22 applicable here, because APS isn't proposing to create  
23 any hydrogen at this site. But I think that going  
24 forward that is something that the Committee should be  
25 mindful of and at least -- I mean, it would be treated

1 differently inside an active management area than  
2 outside. In the case of outside, at the very least, we  
3 should require reporting, and that's what we did in that  
4 other case.

5 Was that 215, Member French?

6 MEMBER FRENCH: I don't remember which  
7 number it was, but I do recall the case that you're  
8 referring to.

9 MEMBER GOLD: Thank you, Mr. Chairman.  
10 Thank you, Ms. Doerfler.

11 MEMBER HILL: Mr. Chair?

12 CHMN STAFFORD: Yes, Member Hill.

13 MEMBER HILL: I don't have any significant  
14 or additional requirements, necessarily, that I'm  
15 thinking about, although I do have a couple of questions  
16 as we go through it section by section and some questions  
17 about edits and things. I think there's some updated  
18 SHPO language since we last did the Coolidge Plant that  
19 this is kind of based off on. So I don't think I have  
20 any major changes, but look forward to the conversation  
21 about each section.

22 I think my bigger question is the  
23 relationship of all of the generation across this  
24 facility and how we treat that. So I'm happy to take  
25 guidance from you guys and the applicant, how we reflect

1 that shared infrastructure. I feel like we need  
2 something that ties it all together. I don't know that  
3 it's an amendment or its own CEC, so I'm just looking for  
4 guidance from the experts on this. So I don't know what  
5 your thoughts are at this point.

6 CHMN STAFFORD: Well, I would look to  
7 include language in the Certificate referencing the prior  
8 Certificate and pointing out that this is -- this  
9 Certificate would be for a subset of the land that was  
10 included in the site of the prior certificate.

11 MEMBER HILL: Okay.

12 CHMN STAFFORD: I think that -- I'm kind of  
13 still trying to figure out whether this would be more  
14 like an amendment or a codicil to the previous one. But  
15 I think, as Mr. Derstine pointed out, all the Conditions  
16 that applied to 95 would apply to this, because it's the  
17 same site. But the new -- this subset site would have  
18 additional Conditions that would not apply to the  
19 previous site, because that's not before the Committee in  
20 this proceeding.

21 Whereas, I guess if you had gone to amend  
22 the Certificate, it would have been -- it would have  
23 opened the whole site up to additional Conditions. And  
24 I'm going to assume that's -- that weighed into the  
25 calculus of how -- what to ask for from the Commission

1 and this Committee, Mr. Derstine -- Derstine?

2 MR. DERSTINE: So we just went through  
3 that, as I mentioned, with the Sundance Plant CEC, and in  
4 connection with that, we did offer updated Conditions  
5 because the CEC for Sundance was, again, older. I don't  
6 think exactly the same vintage as the CEC for this case,  
7 but both of them had very limited conditions.

8 But, honestly, that wasn't -- it  
9 wasn't -- that's not amended, because we don't want these  
10 guys to throw a bunch of new Conditions on our existing  
11 plant. I think we would certainly oppose that, but that  
12 really wasn't a consideration. We thought it made sense  
13 to make a new record, do all the new environmental  
14 analysis, and give the Committee a full opportunity to  
15 look at what we planned to build here, and that was the  
16 reason for it.

17 But I understand in terms of how do you  
18 call that out. I think we can come up with -- my thought  
19 was, in talking about this with Ms. Benally, certainly we  
20 should include a reference to CEC 95 and its existence  
21 and its -- I don't know how we have to incorporate its  
22 terms, we can, so that's part of the record for this  
23 case. And then move on to the Conditions that apply to  
24 the new project would be my suggestion.

25 CHMN STAFFORD: I'm inclined to agree with

1 that.

2 Members?

3 MEMBER FRENCH: Yes.

4 CHMN STAFFORD: All right. Oh, and then I  
5 guess the other Condition would be the SHPO Conditions  
6 that have been in the last couple of CECs, have you seen  
7 those?

8 MR. DERSTINE: We have. And I think our  
9 proposed form of CEC incorporates the latest SHPO  
10 language. So if there's something new or different or we  
11 missed it, we'll double-check that, but we've done our  
12 best to keep up to date on that.

13 CHMN STAFFORD: Oh, yes, you did. You  
14 included it in this one. Was it in -- was it in the  
15 first one?

16 MR. DERSTINE: Probably not.

17 CHMN STAFFORD: I don't think so. Okay.

18 MR. DERSTINE: That's right.

19 CHMN STAFFORD: It's -- it's in the amended  
20 one, that has it in there.

21 MR. DERSTINE: It's in 35.

22 CHMN STAFFORD: Okay. Well, let's see --

23 MEMBER FONTES: Mr. Chairman?

24 CHMN STAFFORD: Yes, Member Fontes.

25 MEMBER FONTES: Was there not,

1 Mr. Derstine, help me out with your team there, another  
2 item that you were penning a letter of feedback on, and I  
3 can't remember if it was archaeology or something?

4 CHMN STAFFORD: It was SHPO.

5 MEMBER FONTES: It was SHPO --

6 CHMN STAFFORD: Yeah.

7 MEMBER FONTES: -- was the sole one? I  
8 thought there was two.

9 CHMN STAFFORD: I recall SHPO. Because  
10 that was the thing, they had sent the letter out to SHPO  
11 and they were waiting a response that they expected in  
12 September. Because they -- they -- the 30-day for review  
13 hadn't come, but they -- but they told SHPO that there  
14 will be no impact because the whole area has been  
15 surveyed as part of the prior CEC, and so there would be  
16 no need for additional survey, and they asked SHPO to  
17 concur that the surveys were adequate, but then again, if  
18 they discovered anything new, they have to go to SHPO and  
19 say, hey, we found something.

20 Is it something that's going to be -- have  
21 to be dealt with or is it not. And if -- because, I  
22 guess, you seek to avoid first, but if not, you have to  
23 catalogue and remove it. And I guess avoid is more  
24 relevant for transmission lines. I think when you're  
25 building a plant, it's going to be probably -- you're

1 going to have to remove it and catalogue it and move it  
2 out of the area.

3 MR. DERSTINE: That's right. Yeah, so we  
4 would certainly, waiting for the concurrence from SHPO in  
5 terms of their agreement with our surveys that were  
6 performed, and again, we don't foresee any issues  
7 because, again, it's an existing plant site that was  
8 graded, a lot of dirt movement. And, actually, the pad  
9 where the expansion project will be constructed is,  
10 again, has been fully graded, and so -- but if there is  
11 something that's found or Conditions are there, we would  
12 comply with the new Conditions, absolutely.

13 And, Member Fontes, if -- you may be  
14 thinking of we also sent a letter to Maricopa County  
15 concerning any new development plans. We never received  
16 a response from the County, but I think that's the only  
17 item in which we have not received a response.

18 MEMBER FONTES: Okay. I just didn't know  
19 if it was related to our -- I'll call it jurisdiction or  
20 domain as it relates to the CEC. I could not remember,  
21 but thanks for the clarification.

22 MR. DERSTINE: Sure.

23 MEMBER HILL: Mr. Chair?

24 CHMN STAFFORD: Yes, Member Hill.

25 MEMBER HILL: Mr. Fontes or Member Fontes,



1 I -- I think that there was one outstanding thing too.  
2 But I don't really under -- I wish Member Little was  
3 here. It was related to the System Impact Study of APS  
4 and maybe some portion of it was done for this generation  
5 and another portion wasn't done. And I feel like I  
6 didn't understand how to treat that, if I am being honest  
7 with everyone.

8 MR. DERSTINE: Please be honest. I'll let  
9 Mr. --

10 Mr. Spitzkoff, can you come up and speak to  
11 that? I think we have -- so there were two  
12 interconnection points which required reliability  
13 studies. One was the interconnection at the existing  
14 Redhawk switchyard, which APS has to study a request for  
15 interconnection by APS. And there's a separate  
16 interconnection at the Hassayampa Switchyard.

17 Q. Can you will speak to that, Mr. Spitzkoff?

18 A. (MR. SPITZKOFF) Yes, I can.

19 MEMBER HILL: And, Mr. Spitzkoff, if I  
20 could ask, when you speak to it, think about it in the  
21 context of the CEC, like, is there something that we need  
22 to include in the CEC, some contingency, some -- how do  
23 we treat that is what I'm thinking about?

24 MR. SPITZKOFF: Certainly, Member Little  
25 [sic].

1 So starting with the APS interconnection  
2 request --

3 MR. DERSTINE: Was that a joke?

4 CHMN STAFFORD: It's Member Hill.

5 MR. SPITZKOFF: Oh, sorry.

6 MR. DERSTINE: No, but I liked it, because  
7 she is channeling Member Little, so that's perfect.

8 MEMBER HILL: For the record, I wish I was  
9 at smart as Member Little, so -- you have the floor, sir.

10 MR. SPITZKOFF: For the APS interconnection  
11 request, one of the confusing points may have been there  
12 were two different requests for APS, because the original  
13 request came in at -- for 350 megawatts. But as the  
14 project developed the technology, the generation  
15 specifics it was coming out to be 393 megawatts of  
16 capability. So they had to file a second interconnection  
17 request for the delta, because you cannot raise, once an  
18 interconnection request is accepted, you cannot increase  
19 that number. So for the APS request there were two of  
20 them to cover the total.

21 The first request is the part that's  
22 currently being studied for the 350 megawatts. The first  
23 phase of that's completed; the second phase is being  
24 done. The second phase, the 43-megawatt incremental  
25 amount, will be studied in our next cluster study. And

1 I'll get back to overall, from a CEC perspective in a  
2 second. The other interconnection request with SRP, that  
3 was made at a later date than the original APS. So it  
4 includes the full 393 megawatt capability. So the draft  
5 results that we have for that and what SRP is studying  
6 covers the full plant size. And I'll just mention the  
7 Reliability Study that APS had performed for the 90-day  
8 filing covered the full 393 megawatts.

9 From the perspective of a CEC and should  
10 anything be included, so I've testified about the FERC  
11 interconnection process in a number of siting cases, and  
12 the -- I'd say the one take-away I would like to impart  
13 is the FERC interconnection process ensures no project  
14 will be interconnected that can jeopardize the  
15 reliability of the system. The process itself and the  
16 standards that the utilities have to meet ensures that.

17 So it's really if a project is connecting  
18 to the grid via a FERC interconnection process, which any  
19 project of nominal size would have to, just by going  
20 through that project and getting an interconnection  
21 agreement finalized and in place ensures that reliability  
22 will be met. So from -- I would say, from my  
23 perspective, from a CEC standpoint, I would not -- I  
24 would not feel like a specific Condition is required.  
25 And there is a Condition, a standard Condition already in

1 the CEC that says utilities have to meet the applicable  
2 WECC, NERC, and FERC standards that are in place. So all  
3 of that together, from a CEC Condition perspective,  
4 I -- I'm comfortable with.

5 MEMBER HILL: Okay. One follow-up  
6 question, because we won't have Member Little tomorrow,  
7 is sometimes we have Findings of Fact about the -- the  
8 nature of the project, and so I just want to make sure  
9 that when we make a statement in that Finding of Fact, we  
10 actually can make it because we have all of the reports  
11 in front of us, so we -- I would just like to look at  
12 that language when we get to that place related to that  
13 and think through, and make sure it reflects truly and  
14 accurately what we know today, so --

15 MR. SPITZKOFF: Certainly.

16 MEMBER HILL: Thank you.

17 CHMN STAFFORD: Thank you.

18 Member Fontes?

19 MEMBER FONTES: Thank you, Chairman.

20 Mr. Spitzkoff, redirect on that question.  
21 So we're going to have the System Impact Study for Q550,  
22 which is the second one, as I recall, in that cluster  
23 study. When will we have the facilities study complete  
24 that will inform design and, in your opinion, will either  
25 of the facility studies, because I think you're probably

1 going to have both if you follow the FERC process that I  
2 understand, could they impact the design and -- or the  
3 final design selection for this project?

4 MR. SPITZKOFF: I would -- Member Fontes, I  
5 would say no. The first interconnection in the APS  
6 reference, which is Q519, will have -- will have a  
7 Facility Study performed. And that will -- that will  
8 dictate the design of the interconnection facility, the  
9 switchyard expansion, and just how the new plant  
10 interacts with the existing grid via just making sure  
11 relays coordinate and things like that.

12 The second portion, the Q550 portion, the  
13 incremental, I expect that will not have a Facility  
14 Study, because nothing new is being constructed. What  
15 that will allow is it will just authorize the units, in  
16 total, to increase and output to the grid at a higher  
17 level, but they're -- the -- nothing new facilitywise  
18 needs to be constructed for that. So, therefore, if no  
19 new facilities need to be constructed or changed, you can  
20 bypass a Facility Study.

21 MEMBER FONTES: That -- that's helpful.  
22 Oftentimes we wrestle with that, and you know this from  
23 other applicants for sure that you've testified, that  
24 they don't have a System Impact Study, we don't know  
25 what -- if the design's going to change at the

1 interconnect on the transmission side, so therefore, how  
2 can the environmental studies that are supporting the CEC  
3 application. I don't think we have that in this case,  
4 so -- but I do appreciate the context in your answer for  
5 clarification on the record.

6 MR. SPITZKOFF: Yes. And, Member Fontes, I  
7 recall at least a handful of those, if not all of those.  
8 Were really in relation to how the tie line enters the  
9 interconnection switchyard. And for this case, you  
10 actually don't. It will all be contained within the  
11 plant footprint, and generally, within that hashed area  
12 that was shown. So I think that was also a part of those  
13 previous discussions of as the tie lines come in from  
14 miles away and get closer, if they're, you know,  
15 identifying a specific bay, and it could come in from the  
16 north, it could come in from the east, things like that.

17 MEMBER FONTES: That was extremely helpful,  
18 and I appreciate you providing that detail on this.

19 I have no further questions, Mr. Chairman.

20 CHMN STAFFORD: Thank you.

21 All right. Members, so, I guess, I'm not  
22 hearing any interest in giving the applicant homework to  
23 craft new Conditions for this CEC, so that's a huge  
24 difference between this and last week. I do think that  
25 we need to add language to reference the prior CEC, and

1 to kind of define the relationship between it and this  
2 one for this project.

3 I'm going to need some time to think that  
4 through and draft up Chairman's 2. So -- and the  
5 applicant and WRA are also welcome to come up with any  
6 kind of language they think would be appropriate. And  
7 then tomorrow morning when we come back, we'll be  
8 prepared to vote on the CEC.

9 MR. DERSTINE: Thank you. I appreciate  
10 that. I think Ms. Benally has already made an effort to  
11 draft some language that would be included in the project  
12 description that includes the reference to CEC 95, which  
13 is the CEC for the existing plant.

14 CHMN STAFFORD: Okay.

15 MR. DERSTINE: We can email that to Tod,  
16 and so that you have the benefit of it, Mr. Chairman, and  
17 maybe that can be forwarded to Members of the Committee,  
18 so they have the benefit of it in advance of tomorrow  
19 morning. That might speed things along. And then if we  
20 can make, if there's other suggestions on, we can add  
21 that.

22 Member Hill?

23 CHMN STAFFORD: And in the meantime, I'll  
24 create Chairman's 2, which will be the version of the CEC  
25 we'll be working off tomorrow to vote on. And I'll

1 circulate that and then Tod will get it to you and then  
2 you can -- I think what we did last week was we put it on  
3 the tablet for the members. We'll have to make sure we  
4 get it to Member Fontes, because -- are you going to be  
5 here in person tomorrow, Member Fontes, or are you going  
6 to be remote again?

7 MEMBER FONTES: I will be in person.

8 CHMN STAFFORD: Okay. Great. So you don't  
9 have to email it to him, then. He'll be here. So we'll  
10 get that circulated, and then we'll have -- I think  
11 it's -- if you put it on the tablet it's much easier as  
12 we go through because then the members can read at their  
13 own pace, as opposed to scrolling through everyone at the  
14 same -- looking at the same screen, so --

15 MR. DERSTINE: We can do that.

16 CHMN STAFFORD: All right.

17 MEMBER HILL: Mr. Chair?

18 CHMN STAFFORD: Yes, Member Little? Now  
19 you've got me doing it. Member Hill?

20 MEMBER HILL: This is Member Nicole Hill.  
21 Not Natalie, not Ms. Little.

22 Sorry, I -- I am being a little lazy with  
23 this question, but because I'm a nerd I was wondering if  
24 when we get the proposed language if you could also share  
25 Decision No. 95 or the CEC just so that I can see all of



1 it together as a whole, because I haven't seen that yet  
2 and if you've got it handy, it would be nice to have it  
3 all together. That's my request.

4 MR. DERSTINE: Absolutely. And if you  
5 like, we might be able to make a copy of it now before  
6 you leave this afternoon.

7 MEMBER KRYDER: That would be great.

8 MR. DERSTINE: Okay.

9 MEMBER FONTES: Special request to email  
10 that. That was my question.

11 MR. DERSTINE: Yes. We'll make sure it  
12 makes it out virtually as well.

13 MEMBER FONTES: Mr. Chairman, I just have  
14 one clarification, if I may?

15 CHMN STAFFORD: Yes, Member Fontes.

16 MEMBER FONTES: Where did we leave the  
17 hydrogen? If it's -- if they introduced hydrogen,  
18 there's typically a CapEx, you're not just changing out,  
19 as Member Kryder said for, you know, regular for  
20 high-test unleaded. There's actually skids and there's  
21 construction that we have to deal with when you change  
22 out a LM6000's fuel sources.

23 So I do have concern about that, that we do  
24 include some sort of language that it should be revisited  
25 since we don't -- there's only one project that I know

1 that's been converted, and it did have a major CapEx.

2 CHMN STAFFORD: Yeah, I mean, the  
3 Conditions that APS and WRA agreed to would cover any use  
4 of hydrogen at the project. It's unlikely -- highly  
5 unlikely, based on this testimony we heard from the  
6 witnesses, that they would be used for the combined cycle  
7 units, because the LM6000, I think it's capable to take a  
8 30 percent mix --

9 MR. DERSTINE: 35.

10 CHMN STAFFORD: -- 35 percent mix out the  
11 gate. But you're right, it would take significant  
12 capital expenditures to go anything higher than that.  
13 They'd have to retrofit a significant part of the  
14 turbine, I understand. But I think --

15 MEMBER FONTES: You're going to have to put  
16 in additional civil infrastructure and skids and mounting  
17 and conduit there, so that could have an environmental  
18 impact. That's where I'm coming from, Mr. Chairman.

19 CHMN STAFFORD: Right. And that's why the  
20 Condition they had -- it says that they had to -- if  
21 they're going to utilize hydrogen at a blend greater than  
22 35 percent, they had to come in and make an amendment to  
23 the CEC.

24 MEMBER FONTES: Thanks for the  
25 clarification. I just lost track on that.

1 CHMN STAFFORD: Yeah. Yeah. So  
2 that -- yeah, because that's -- but here's the thing,  
3 though, even though the units are capable of utilizing  
4 that mix, how do you get it to them? No one has a way to  
5 do that at this point in time. So it's -- if they  
6 come -- if that -- they wouldn't need to get a  
7 modification of the CEC to blend 35 percent, because  
8 they're capable of doing that now, getting the -- I think  
9 they talked about trucking it in, but I don't think  
10 there's a big enough truck to make it worth their while,  
11 the amount they need to be able to operate the plant.

12 MEMBER HILL: Maybe you just produce it  
13 on-site, that's a really nice water right that they have.

14 CHMN STAFFORD: Again, they wouldn't be  
15 able to do it -- I don't think they have enough space to  
16 have the solar to do it, they'd have to get it from the  
17 neighbors. But I think other people want that power  
18 to, you know, for electricity and not just hydrogen  
19 generation, I guess. Potentially someone could concoct a  
20 scheme where they could get all the excess from all the  
21 surrounding solar to make hydrogen that you could feed to  
22 this plant, but that seems like a pretty significant  
23 undertaking that I don't think anyone's in the market to  
24 do that at this particular juncture in time.

25 MEMBER FONTES: Certainly it's an emerging

1 technology, Mr. Chairman, as you've underscored. And we  
2 don't know the future, so that I just wanted to put some  
3 ends around it if they did have to do a capital  
4 expenditure and additional construction, we would have to  
5 revisit how it could potentially impact the environment.  
6 So that's where I wanted to revisit that from just simply  
7 that small end point.

8 CHMN STAFFORD: Well, I think that would be  
9 addressed by the Conditions that they -- the new 23 and  
10 24 they agreed to. But take a look at those, and if you  
11 think they need -- that language needs further  
12 modification, we can certainly discuss it tomorrow.

13 I don't know if any tweaks to that will  
14 cause heartburn for APS or WRA. But we'll -- we can hear  
15 from them if we do propose to make any changes to those  
16 Conditions, because my understanding that those were kind  
17 of a package deal between the two parties.

18 MR. DERSTINE: That's right. Ms. Doerfler  
19 extracted a lot for those very onerous Conditions, and  
20 we've agreed to them, so -- and I was struggling before,  
21 I was trying to use the term "efforting" because it made  
22 her happy when I used it the other day, but I couldn't  
23 find a way to use it.

24 CHMN STAFFORD: Efforting.

25 MR. DERSTINE: Right.

1 CHMN STAFFORD: I have to work that one  
2 into the rotation until it gets adopted. It will be the  
3 next new word in the dictionary come 2025, huh?

4 MR. DERSTINE: That's what she said.

5 CHMN STAFFORD: All right. All right.  
6 Well, I have some work to do on some language additions  
7 for the proposed CEC. Any other -- anything further from  
8 Members before we recess today and come back tomorrow  
9 morning at 9:00 a.m.?

10 MR. DERSTINE: I think we're making those  
11 paper copies of 95 right now and so we should have those  
12 to you before you take off for the day, and we'll see you  
13 in the morning. I assume our start time 9:00 a.m.?

14 CHMN STAFFORD: 9:00 a.m. And we should be  
15 done by the time of the first break. I would think to be  
16 done by 10:30, but --

17 MEMBER KRYDER: Which day?

18 CHMN STAFFORD: Tomorrow. Tomorrow. Yes.  
19 Yes, I think that -- you know, barring any tangential  
20 lines of questioning from Members, I think we should be  
21 able to get it done.

22 MEMBER KRYDER: Thank you. I'll take that.

23 CHMN STAFFORD: All right. Anything  
24 further for the good of the order?

25 (No response.)

1 CHMN STAFFORD: With that, we are in recess  
2 until tomorrow morning at 9:00.

3 (The hearing recessed at 2:45 p.m.)  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

1 STATE OF ARIZONA )  
2 COUNTY OF MARICOPA )

3

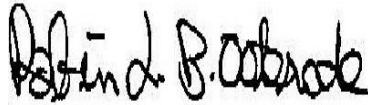
4 BE IT KNOWN that the foregoing proceedings were  
5 taken before me; that the foregoing pages are a full,  
6 true, and accurate record of the proceedings all done to  
the best of my skill and ability; that the proceedings  
were taken down by me in shorthand and thereafter reduced  
to print under my direction.

7 I CERTIFY that I am in no way related to any of  
8 the parties hereto nor am I in any way interested in the  
outcome hereof.

9 I CERTIFY that I have complied with the ethical  
10 obligations set forth in ACJA 7-206(F)(3) and ACJA 7-206  
11 (J)(1)(g)(1) and (2). Dated at Phoenix, Arizona, this  
26th day of August, 2024.

12

13



14

ROBIN L. B. OSTERODE, RPR  
CA CSR No. 7750  
AZ CR No. 50695

15

\* \* \* \* \*

16  
17  
18 I CERTIFY that Glennie Reporting Services, LLC,  
19 has complied with the ethical obligations set forth in  
ACJA 7-206(J)(1)(g)(1) through (6).

20

21



22

23  
24 GLENNIE REPORTING SERVICES, LLC  
Registered Reporting Firm  
25 Arizona RRF No. R1035