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EVIDENTIARY HEARING BEFORE THE  
ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
CALIFORNIA ENERGY COMMISSION

In the matter of, )  
Walsh Backup Generating ) Docket No. 19-SPPE-02  
Facility )

**EVIDENTIARY HEARING**

**REMOTE WEBEX ACCESS ONLY**

WARREN-ALQUIST STATE ENERGY BUILDING  
1516 NINTH STREET  
1ST FLOOR, ARTHUR ROSENFELD HEARING ROOM  
SACRAMENTO, CALIFORNIA 95814

WEDNESDAY, MAY 27, 2020

10:17 A.M.

Reported by:

Peter Petty

## APPEARANCES

SITING COMMITTEE MEMBERS AND ADVISORS PRESENT:

Karen Douglas, Commissioner, Presiding Member  
Kourtney Vaccaro, Advisor to Commissioner Douglas  
Eli Harland, Advisor to Commissioner Douglas  
Patty Monahan, Commissioner, Associate Member  
Jana Romero, Advisor to Commissioner Monahan

HEARING OFFICER:

Susan Cochran, California Energy Commission

CEC STAFF PRESENT:

Jared Babula, Staff Counsel  
Rosemary Avalos, Public Advisor's Office  
Dr. Tao Jiang  
Dr. Huei-An Chu  
Dr. Wenjun Qian  
Kenneth Salyphone  
Liza Lopez

CONSULTANTS/CONTRACTORS PRESENT

Brewster Birdsall, Aspen Environmental Group

APPLICANT:

Scott Galati, Applicant's Representative  
Joe Hubbard, Digital Realty Trust  
Michael Lisenbee, David J. Powers & Associates  
Greg Darwin, Atmospheric Dynamics

## APPEARANCES (CONT.)

INTERVENOR:

Robert Sarvey

PUBLIC AGENCIES

Kevin Kolnowski, Silicon Valley Power (SVP)

Henry Hilken, Bay Area Air Quality Management District (BAAQMD)

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<u>Intervenor Sarvey</u>			
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1 MAY 27, 2020

10:17 A.M.

2 PRESIDING MEMBER DOUGLAS: This is the evidentiary  
3 hearing for the application for a small power plant exemption  
4 for the Walsh Backup Generating Facility.

5 I'm Karen Douglas, the Presiding Member of the  
6 Committee assigned to conduct proceedings on the application.

7 Before we begin, I would like to make introductions  
8 and then ask the parties to identify themselves for the  
9 record. So, I'm Karen Douglas, Commissioner and Presiding  
10 Member.

11 Patty Monahan is the Commissioner and -- is a  
12 Commissioner and the Associate Member of this Committee.

13 My Advisors are Kourtney Vaccaro and Eli Harland.  
14 And Patty Monahan's Advisor is Jana Romero.

15 We've heard from Rosemary Avalos, from the Public  
16 Advisor's Office. Then, of course, from Susan Cochran, the  
17 Hearing Officer.

18 I will now ask the parties to please introduce  
19 themselves and their representatives, starting with the  
20 Applicant.

21 HEARING OFFICER COCHRAN: That means he can't unmute  
22 himself.

23 MR. GALATI: I got it. This is Scott Galati,  
24 representing 651 Walsh Partners, LLC. The managing partner  
25 is Digital Realty. We are the Applicant for the Walsh Backup

1 Generating Facility and the Data Center.

2 PRESIDING MEMBER DOUGLAS: Great. Let me now ask  
3 staff if you could introduce yourselves.

4 MR. BABULA: Yeah, hi. This is Jared Babula and I'm  
5 Senior Attorney for staff. And today, who will be speaking,  
6 at least providing some direct testimony is Dr. Ann Chu and  
7 Dr. Tao Jiang. Thank you.

8 PRESIDING MEMBER DOUGLAS: Thank you. Now, we'll go  
9 to Intervenors. I'll ask first if Helping Hand Tools is --  
10 has joined us today? What about California Unions for  
11 Reliable Energy? All right and Mr. Sarvey.

12 I know we all know you're here, but if you don't mind  
13 speaking up, Mr. Sarvey, and then we'll move on.

14 MR. SARVEY: Bob Sarvey, Intervenor. Thank you.

15 PRESIDING MEMBER DOUGLAS: Thank you very much.

16 Let me now ask for agencies. Are there any elected  
17 officials or representatives from agencies of the federal  
18 government?

19 What about State of California, with the exception of  
20 the Energy Commission? Any state agency representatives  
21 here?

22 Native American Tribes?

23 All right, let me ask if the Bay Area Air Quality  
24 Management District has a representative?

25 MR. HILKEN: Yes, Henry Hilken.



1           PRESIDING MEMBER DOUGLAS: Great, thank you.

2           And what about City of Santa Clara or Silicon Valley  
3 Power?

4           MR. KOLNOWSKI: Yes, Kevin Kolnowski.

5           PRESIDING MEMBER DOUGLAS: With the City or Silicon  
6 Valley Power?

7           MR. KOLNOWSKI: We're one in the same. I'm an  
8 employee of the City of Santa Clara, but I work for Silicon  
9 Valley Power.

10          PRESIDING MEMBER DOUGLAS: Excellent. Thank you.

11          Anyone else from any local government agencies?

12          All right, at this time I will hand over the conduct  
13 of this hearing to the Hearing Officer, Susan Cochran.

14          HEARING OFFICER COCHRAN: Thank you and good morning.  
15 The Committee noticed today's evidentiary hearing in the  
16 Notice of Prehearing Conference and Evidentiary Hearing  
17 Revised Scheduling Order, and further orders issued on April  
18 30, 2020.

19          The evidentiary hearing is being held remotely. That  
20 is we are in separate locations and communicating only  
21 through electronic means. We are meeting in this fashion  
22 consistent with Executive Orders N25-20 and N29-20, and the  
23 recommendations from the California Department of Public  
24 Health to encourage physical distancing in order to slow the  
25 spread of COVID-19.

1           Before we proceed with the substantive portion of  
2 this evidentiary hearing, I wanted to discuss housekeeping  
3 issues. During last week's prehearing conference we  
4 discussed the changes necessary to ensure a smooth hearing  
5 and a complete transcript as we meet remotely. We practiced  
6 those changes and I would like to remind you of some of them.

7           First, I'm going to ask that only one person speak at  
8 a time. Use the raise your hand or chat feature if you would  
9 like to be recognized. Chat is probably going to be easier  
10 today because of the number of folks participating and I have  
11 to scroll up and down to see your raised hand. So, if you  
12 can use the chat feature that would be easiest for me.

13           Second, I would like it if you could please identify  
14 yourself before you speak. When we meet remotely it's harder  
15 for the court reporter and me to identify who is speaking or  
16 wishes to be recognized.

17           Moving now to the substance. This evidentiary  
18 hearing concerns the application for a small power plant  
19 exemption, SPPE, for the Walsh Backup Generating Facility.  
20 The application was filed on June 28th and it and many of the  
21 other documents I will be mentioning today are available on  
22 the online docketing system used by the Energy Commission.

23           The Backup Generating Facility would be used to  
24 ensure an uninterruptable power supply for the Walsh Data  
25 Center. The Data Center consists of a four-story, 435,050

1 square foot data center building that will house computer  
2 servers in a secure and environmentally controlled structure,  
3 and a three-story administrative building containing support  
4 facilities such as the building lobby, restrooms, conference  
5 rooms, and office space.

6 The Backup Generating Facility includes a totally of  
7 33 diesel-fired generators. A single, 2-megawatt diesel-  
8 fired generator would support the administration space,  
9 shipping and receiving, and common building systems such as  
10 elevators. The remaining generators will be 3-megawatt  
11 diesel-fired generators that will provide up to 80 megawatts  
12 of electricity to the Data Center. The 80 megawatts  
13 represents the maximum building load of the Data Center.

14 Under Public Resources Code Section 25541, the  
15 Commission may grant an SPPE only when it makes three  
16 separate and distinct findings. The proposed power plant has  
17 a generating capacity of up to 100 megawatts; no substantial  
18 adverse impact on the environment will result from the  
19 construction or operation of the power plant; and three, no  
20 substantial adverse impact on energy resources will result  
21 from the construction or operation of the power plant.

22 In addition, the Energy Commission acts as the lead  
23 agency under CEQA. In reviewing an SPPE, the Energy  
24 Commission considers the whole of the action. For the  
25 application, the whole of the action means the backup

1 generators, the Data Center, and the other project features  
2 such as the substation.

3           Staff prepared and published an initial study and  
4 Proposed Mitigated Negative Declaration on February 18, 2020.  
5 The initial study, Proposed Mitigated Negative Declaration,  
6 was subject to a public review and comment period that ended  
7 on March 19, 2019. Comments were received from the Bay Area  
8 -- I'm sorry, from the County of Santa Clara Roads and  
9 Airports Department, and from the Bay Area Air Quality  
10 Management District that I'm going to refer to as BAAQMD from  
11 now on. No comments were received from any intervenor or the  
12 Applicant.

13           Last Friday, May 22nd, we received comments from the  
14 National Fuel Cell Research Center. As explained in the  
15 April 30, 2020 notice, we required a prehearing conference  
16 statement from any party seeking to present evidence or  
17 cross-examine the witnesses at this evidentiary hearing.

18           We received prehearing conference statements from  
19 staff, Applicant, and Intervenor Sarvey. Neither Intervenor  
20 Californians for Reliable Energy, nor Helping Hand Tools  
21 filed a prehearing conference statement.

22           As set forth in the April 30, 2020 notice, the  
23 evidentiary hearing will be conducted using a formal hearing  
24 procedure modified to fit the remote nature of the hearing.  
25 As discussed during the PHC, we will deem all parties'

1 opening and rebuttal testimony as their direct. There is no  
2 need to discuss experts' resumes if we have them in writing,  
3 and there's no objection to the witness as an expert.

4 If witnesses testify who have not filed written  
5 testimony, please have them identify themselves by name and  
6 title. For example, I would introduce myself as Susan  
7 Cochran, Hearing Advisor II for the California Energy  
8 Commission.

9 If any party has an objection to a witness or his or  
10 her qualifications, please state the objection.

11 After the prehearing conference, both Applicant and  
12 Intervenor Sarvey identified additional exhibits for  
13 introduction at today's evidentiary hearing.

14 Liza, can you display the exhibit list, please?

15 Mr. Sarvey yesterday informed us that he was  
16 withdrawing Exhibit Number 504. Is that correct, Mr. Sarvey?

17 MR. SARVEY: Yes, it is, that's correct.

18 HEARING OFFICER COCHRAN: Have the parties had a  
19 chance to prepare their own witness list?

20 MR. BABULA: This is Jared. Jared Babula for staff.  
21 So, it's the same -- the witness list in the original  
22 prehearing statement. So, did you have an additional -- an  
23 additional question on that because --

24 HEARING OFFICER COCHRAN: Well, I want to make sure.  
25 What I wanted -- my purpose in asking this question is to be

1 able to admit all of the witness -- all of the exhibits at  
2 once.

3 MR. BABULA: Okay. Were you talking about witnesses  
4 or documents?

5 HEARING OFFICER COCHRAN: The exhibit list.

6 MR. BABULA: Oh, okay. I thought you --

7 HEARING OFFICER COCHRAN: I'm talking just about the  
8 exhibit list.

9 MR. BABULA: Oh, okay. I thought you said witness  
10 list.

11 HEARING OFFICER COCHRAN: No, I'm sorry, exhibit  
12 list.

13 MR. BABULA: Okay.

14 MR. GALATI: This is Scott Galati. On behalf of the  
15 Applicant I docketed a revised exhibit list, counting the  
16 exhibits that I intend to use during cross-examination.

17 HEARING OFFICER COCHRAN: Okay.

18 MR. GALATI: Yesterday. And so, my exhibits now are  
19 complete, 1 through 30.

20 HEARING OFFICER COCHRAN: And do you have a motion  
21 regarding your exhibits?

22 MR. GALATI: I'd like to move them into evidence.

23 HEARING OFFICER COCHRAN: Does anyone have any  
24 objection to Applicant's Exhibits 1 through 30?

25 MR. SARVEY: No objection.

1 MR. BABULA: This is Jared Babula. No objection.

2 HEARING OFFICER COCHRAN: Thank you.

3 With that, Applicant Exhibits are admitted.

4 (Applicant Exhibit Nos. 1 through 3 admitted  
5 into evidence.)

6 HEARING OFFICER COCHRAN: Staff, do you have a motion  
7 concerning your exhibits?

8 MR. BABULA: Yeah, this is Jared Babula. I'd like to  
9 move Exhibits 200, 201, 202, and 203 into evidence.

10 HEARING OFFICER COCHRAN: Is there any objection?  
11 Mr. Galati?

12 MR. GALATI: No objection.

13 HEARING OFFICER COCHRAN: Mr. Sarvey?

14 MR. SARVEY: No objection.

15 HEARING OFFICER COCHRAN: The exhibits are admitted.  
16 (Staff Exhibit Nos. 200 through 203 admitted  
17 into evidence.)

18 HEARING OFFICER COCHRAN: Mr. Sarvey, do you have a  
19 motion to make regarding your exhibits?

20 MR. SARVEY: Yeah, I move that we move Exhibits 500  
21 through 512 into the record.

22 HEARING OFFICER COCHRAN: Except for 504, correct,  
23 you're withdrawing 504?

24 MR. SARVEY: Except for 504. I'm withdrawing 504,  
25 thank you.

1 HEARING OFFICER COCHRAN: Is there any objections  
2 from staff?

3 MR. BABULA: This is Jared. I just have a question  
4 on -- there's the EIR he's introducing from the City's  
5 General Plan, which is a 600-page document. Was that -- was  
6 there a part in there that is of relevance?

7 HEARING OFFICER COCHRAN: Mr. Sarvey?

8 MR. SARVEY: Yes, I had referenced it in my  
9 testimony. And the relevance of it pertains to the  
10 conclusion in the EIR; the Santa Clara General Plan EIR that  
11 mentions GHG emissions would be significant. Significant and  
12 unavoidable for 2035.

13 HEARING OFFICER COCHRAN: Okay. Mr. Galati, do you  
14 have any objections to Mr. Sarvey's proffered evidence?

15 MR. GALATI: Yes, I object to the EIR. The questions  
16 that were answered by the Commission staff and Applicant is  
17 no one has tiered off the EIR, so I don't believe that it is  
18 relevant. So, I object on the grounds irrelevancy.

19 HEARING OFFICER COCHRAN: Well, I think because Mr.  
20 Sarvey has indicated that he relied on it in his testimony as  
21 the source document, so we're going to overrule the  
22 objections and will admit the CEQA -- the City of Santa  
23 Clara's EIR for its General Plan.

24 MR. GALATI: No other objections from me on Mr.  
25 Sarvey's other exhibits.



1 HEARING OFFICER COCHRAN: Okay. With that, we will  
2 admit Mr. Sarvey's Exhibits 500 through 512, excluding 504.  
3 That has been withdrawn.

4 (Intervenor Sarvey Exhibit Nos. 500 through 503 and  
5 505 through 512 admitted into evidence.)

6 HEARING OFFICER COCHRAN: During the prehearing  
7 conference we discussed which areas would require testimony  
8 today. They are Air Quality and Public Health, Greenhouse  
9 Gas Emissions, Utilities and Service Systems, and Energy  
10 Resources.

11 Are there any topics that I forgot or did not mention  
12 that you were expecting to cover at today's evidentiary  
13 hearing?

14 MR. GALATI: None.

15 HEARING OFFICER COCHRAN: Mr. Babula?

16 MR. BABULA: No, that covers it, thanks.

17 HEARING OFFICER COCHRAN: Mr. Galati?

18 MR. GALATI: That covers it.

19 HEARING OFFICER COCHRAN: Mr. Sarvey?

20 MR. SARVEY: Yes, I agree with that assessment.

21 HEARING OFFICER COCHRAN: Okay. Do the parties have  
22 a preference for the order in which these are taken? I know  
23 that we have representatives from both BAAQMD and Silicon  
24 Valley Power. Are there topic areas that you would prefer to  
25 have first in order to allow those witnesses to be excused

1 after they testify?

2 MR. BABULA: This is Jared Babula for staff. I would  
3 suggest we go with like Silicon Valley Power first, and then  
4 the Bay Area Air Quality Management District and then get  
5 into -- at least for our order, then staff witnesses. So, go  
6 first with our sister agencies that are calling in to allow  
7 them to provide the information, and then they can get off  
8 the line if they'd like.

9 HEARING OFFICER COCHRAN: Okay. And so, we have Mr.  
10 Babula's suggestion. Mr. Galati, do you have any comments on  
11 that?

12 MR. GALATI: No. My witnesses are going to testify  
13 as a panel on all of these subjects. We can take them in  
14 whatever order. I'd just point out that the Bay Area Air  
15 Quality Management District is specifically about Air Quality  
16 and Public Health. And Mr. Kolnowski, his testimony would be  
17 relevant to both Air Quality with respect to emergencies, as  
18 well as Energy Resources and Utilities.

19 HEARING OFFICER COCHRAN: Okay. Mr. Sarvey, do you  
20 have a preference with order?

21 MR. SARVEY: I agree with staff's attorney that we  
22 should take SVP and BAAQMD first, and that would probably  
23 eliminate a lot of questions and a lot of responses.

24 HEARING OFFICER COCHRAN: Okay. So, then at this  
25 point let's begin with Utility and Service Systems. Who all

1 will be testifying on the topic of Utilities and Service  
2 Systems?

3 MR. GALATI: This is Mr. Galati. I do not have any  
4 direct witnesses for Utilities and Service Systems.

5 HEARING OFFICER COCHRAN: Staff?

6 MR. BABULA: So, we would be utilizing Mr. Kolnowski  
7 from SVP as the primary person dealing with the Utility  
8 Services for the grid. And then, I do have staff witnesses  
9 that potentially could respond to cross or questions, but no  
10 direct from a staff witness.

11 HEARING OFFICER COCHRAN: Did you have an open  
12 summary that you were going to be offering?

13 MR. BABULA: I have questions to provide Mr.  
14 Kolnowski to address.

15 HEARING OFFICER COCHRAN: Okay. So, any witness that  
16 -- I need the names of any witness that you believe will be  
17 testifying either on direct or on cross.

18 MR. BABULA: So, that would -- this is Jared again.  
19 So, I would have a representative from SVP. Then, we have  
20 Henry Hilken, a representative from Bay Area Air Quality  
21 Management District. I will have questions for him.

22 And then for staff we have direct opening statement  
23 from Dr. Tao Jiang on Air Quality and GHG.

24 HEARING OFFICER COCHRAN: Right now, all I want to do  
25 is Utility Services.

1 MR. BABULA: Okay, then --

2 HEARING OFFICER COCHRAN: I just want Utility  
3 Services.

4 MR. BABULA: So, the only --

5 HEARING OFFICER COCHRAN: Because what I want to do  
6 is I want to be able to swear the panel.

7 MR. BABULA: Okay. Then for Utility Services  
8 relating to grid stuff, then I would like to with Kevin  
9 Kolnowski. And then also for staff, in case there are any  
10 cross-examination questions from Mr. Sarvey or the Applicant,  
11 then I would go with Shahab Khoshmashrab and Kenneth  
12 Salyphone.

13 HEARING OFFICER COCHRAN: Okay. Mr. Galati, do you  
14 have witnesses that you expect would be responding to  
15 questions on Utility Services? So, would that be Mr.  
16 Hubbard, Mr. Darvin, and Mr. Lisenbee?

17 MR. GALATI: No, I do not.

18 HEARING OFFICER COCHRAN: Okay.

19 MR. GALATI: We're standing on our writings. I'll  
20 have cross-examination questions and maybe some questions for  
21 Mr. Kolnowski.

22 HEARING OFFICER COCHRAN: Okay, thank you so much.

23 Mr. Sarvey, will anyone other than you be testifying?

24 MR. SARVEY: No, I'll be the only one. Thank you.

25 HEARING OFFICER COCHRAN: Okay. So, those witnesses

1 that we just discussed, Mr. Kolnowski, Mr. Khoshmashrab, Mr.  
2 Sarvey, and I'm sorry I missed that third witness. If you  
3 could raise your right hand? And I know that you're all  
4 doing this.

5 Do you swear or affirm that the testimony you're  
6 about to give in this proceeding is the truth and nothing but  
7 the truth?

8 Each of you needs to respond individually, starting  
9 with Mr. Sarvey.

10 MR. SARVEY: Yes. Bob Sarvey, yes.

11 HEARING OFFICER COCHRAN: Mr. Kolnowski?

12 MR. KOLNOWSKI: Mr. Kolnowski, yes, I do.

13 HEARING OFFICER COCHRAN: Mr. Khoshmashrab? I am not  
14 seeing Mr. Khoshmashrab.

15 MR. BABULA: Yeah, I don't see him, either. Okay,  
16 well, if he comes on we'll have to do it later. We can go to  
17 Kenneth Salyphone.

18 HEARING OFFICER COCHRAN: Thank you.

19 MR. SALYPHONE: Yes, this is Kenneth Salyphone and  
20 yes, I do.

21 HEARING OFFICER COCHRAN: Okay. So, Mr. Babula would  
22 you like to begin with your opening, please?

23 MR. BABULA: I can do that. I just wanted to make  
24 sure, our original order had had the Applicant asking  
25 questions first, so I don't know if you want to change that

1 or just go right to me or whether --

2 HEARING OFFICER COCHRAN: Because he is not  
3 sponsoring any testimony, I would like to hear from you.

4 MR. BABULA: Okay.

5 HEARING OFFICER COCHRAN: And because everyone is  
6 agreeing that Mr. Kolnowski has the information and he's not  
7 previously provided testimony, let's start with him.

8 MR. BABULA: Okay.

9 HEARING OFFICER COCHRAN: Thank you.

10 MR. BABULA: That's great. Mr. Kolnowski, can you  
11 hear me okay?

12 MR. KOLNOWSKI: Yes, I can.

13 MR. BABULA: Okay, great. Can you state your name  
14 and title?

15 MR. KOLNOWSKI: My name is Kevin Kolnowski, K-O-L-N-  
16 O-W-S-K-I. And I'm the Chief Operating Officer for Silicon  
17 Valley Power. And Silicon Valley Power is the municipal  
18 utility for the City of Santa Clara.

19 MR. BABULA: Can you briefly describe your  
20 responsibilities at Silicon Valley Power?

21 MR. KOLNOWSKI: I'm responsible basically for the  
22 day-to-day operation of the electric utility. And that  
23 includes transmission, distribution, resources, engineering,  
24 everything it takes to run the utility.

25 MR. BABULA: What is your level of knowledge of SVP's

1 Integrated Resources Plan?

2 MR. KOLNOWSKI: I am familiar with the document.

3 MR. BABULA: Did you review Mr. Sarvey's filings,  
4 Exhibit 501 and 502, Energy Resources, Utilities, and Service  
5 Systems?

6 MR. KOLNOWSKI: Yes, I did.

7 MR. BABULA: At page 5 of Exhibit 501, Mr. Sarvey  
8 calculates that due to various approved or formal data  
9 centers, SVP has a procurement shortfall of at least 187  
10 megawatts. Do you agree with Mr. Sarvey's calculation that  
11 SVP has a procurement shortfall?

12 MR. KOLNOWSKI: I do not.

13 MR. BABULA: Has SVP considered the addition of  
14 various proposed data center loads, including Walsh and  
15 Sequoia in its planning process?

16 MR. KOLNOWSKI: It has, yes.

17 MR. BABULA: Does SVP have sufficient resources to  
18 meet the electricity demand out to 2030?

19 MR. KOLNOWSKI: Yes, we do.

20 MR. BABULA: Does SVP's planning for demand growth  
21 due to potential data center expansion predate 2018?

22 MR. KOLNOWSKI: Yes, it does.

23 MR. BABULA: Can you explain what the planning  
24 horizon is for SVP's energy infrastructure?

25 MR. KOLNOWSKI: We typically look out ten years and

1 that's due to the long-term nature of a lot of the projects  
2 that are required to be implemented and get approved, so we  
3 typically have a ten-year planning horizon.

4 MR. BABULA: At page 2 of Exhibit 501, Mr. Sarvey  
5 argues that based on the 2018 power content label that  
6 nonresidential consumers, like data centers, consume all of  
7 SVP's natural gas-generated electricity, while most of the  
8 renewable generation are allocated to residential sources.  
9 Therefore, the data centers will increase reliance on fossil  
10 fuels. Is this an accurate description of how the energy is  
11 allocated on SVP's system?

12 MR. KOLNOWSKI: No, it is not.

13 MR. BABULA: Can you explain why this description is  
14 incorrect?

15 MR. KOLNOWSKI: Silicon Valley Power has about a 90  
16 percent industrial/commercial load where the residents are  
17 about 6 to 7 percent. So, in that 6 to 7 percent, on a given  
18 day the residential load is approximately I would say  
19 between, you know, 28 and 40 megawatts. And our resources  
20 are significantly -- our renewable resources are  
21 significantly greater than that.

22 MR. BABULA: In staff's initial study, staff  
23 identified SVP's (indiscernible) -- carbon intensity or  
24 emissions factor. As noted in the initial study on pages  
25 5.8-9, in 2017 SVP had an estimated carbon intensity of 430



1 pounds, but by 2019 SVP's carbon intensity had fallen to 341  
2 pounds. Are these carbon intensities based on SVP's overall  
3 portfolio or a specific product offering?

4 MR. KOLNOWSKI: This is based on the overall  
5 portfolio.

6 MR. BABULA: Why is calculation based on SVP's  
7 overall portfolio a more accurate reflection of its carbon  
8 intensity?

9 MR. KOLNOWSKI: We feel it is the most accurate and I  
10 believe it follows the CEC recommendation of -- I'd have to  
11 find that document -- of how to do this. And we feel that  
12 the overall is more representative of what our community is  
13 experiencing. And it's not based on, you know, picking one  
14 sector or another. We felt that that was the best approach  
15 to do that.

16 MR. BABULA: Are you familiar with the targets in SB  
17 100 for a hundred percent zero carbon electricity by 2045 and  
18 a 60 percent RPS by 2030?

19 MR. KOLNOWSKI: Yes.

20 MR. BABULA: Is SVP working to meet these targets?

21 MR. KOLNOWSKI: Yes, we are.

22 MR. BABULA: Can you explain what action SVP is  
23 taking to meet the state's GHG and RPS requirements?

24 MR. KOLNOWSKI: Continue to evaluate projects to  
25 bring in new resources to our portfolio mix. We currently

1 have about 400 megawatts of new projects coming in, another  
2 100 megawatts that we're investigating. And all of the items  
3 that we're looking at are renewable. We know we have to meet  
4 the RPS standard and that is our objective, and that's what  
5 is expected of us by our residents and the city council. So,  
6 we're continually trying to find resources to make that  
7 happen.

8           And we currently have 672 megawatts of carbon-free  
9 resources in our mix, out of our total of 978. And we have  
10 another 412 coming online over the next several years. And  
11 we're investigating another 100 megawatts of additional  
12 renewable resources to add to the mix. We're projected to  
13 have into the future, within the next couple years about  
14 1,400 megawatts. Of that, 78 percent is renewable  
15 generation.

16           MR. BABULA: Does the potential electricity demand,  
17 including demand from the data centers, such as Walsh and  
18 Sequoia, impede the ability for SVP to meet its GHG and RPS  
19 requirements?

20           MR. KOLNOWSKI: It does not impede it.

21           MR. BABULA: And can you explain why?

22           MR. KOLNOWSKI: We're continuing to evaluate products  
23 that are out there. We're part of the Northern California  
24 Power Agency. They recently went out for a request for  
25 proposals for renewable products. And we know we have to

1 meet the LPS standard and we have staff members that that's  
2 their focus. We have a team of about ten people that this is  
3 what they do on a regular basis. Trying to evaluate,  
4 procure, and secure long-term contracts with generation that  
5 is renewable because that's the direction we have to go.

6 MR. BABULA: Thank you. I have no further questions  
7 for Mr. Kolnowski and he's available for the other parties.

8 HEARING OFFICER COCHRAN: Okay, thank you. Mr.  
9 Sarvey, did you have opening remarks?

10 MR. SARVEY: Opening remarks on Utilities and Service  
11 Systems?

12 HEARING OFFICER COCHRAN: Yes.

13 MR. SARVEY: I would just ask that -- I would ask  
14 that you -- can you illustrate Exhibit 28, the Silicon Valley  
15 Power's Integrated Resource Plan, page 3-18, figure 3-4?

16 HEARING OFFICER COCHRAN: A little more slowly with  
17 the numbers, please?

18 MR. SARVEY: That would be Silicon Valley Power's  
19 Integrated Resource Plan, which is Exhibit 28.

20 HEARING OFFICER COCHRAN: Right. What pages?

21 MR. SARVEY: Page 3-18 and figure 3-4.

22 HEARING OFFICER COCHRAN: Liza, could you pull up  
23 Exhibit 28? I don't believe that Mr. Kolnowski has that.

24 Mr. Kolnowski, do you have that document?

25 MR. KOLNOWSKI: I do not.

1 HEARING OFFICER COCHRAN: Okay, if you could pull up  
2 Exhibit 28? Liza, you might want to do a control F for  
3 figure 3-4, it would be easier.

4 MR. GALATI: Liza, this is Scott Galati. It's on  
5 page 53 of the PDF, if you wanted to jump that way.

6 HEARING OFFICER COCHRAN: So, you're sharing your  
7 screen, correct, Liza?

8 MS. LOPEZ: Yes.

9 HEARING OFFICER COCHRAN: Thank you. So, is this the  
10 table that you're referencing, Mr. Sarvey?

11 MR. SARVEY: I can't use WebEx, but I'm assuming you  
12 got figure 4-3 on there.

13 HEARING OFFICER COCHRAN: Okay, 3-4 correct? Not 4-  
14 3? Mr. Sarvey?

15 MR. SARVEY: It's 3-4. 3-4.

16 HEARING OFFICER COCHRAN: Thank you. Mr. Kolnowski  
17 can you see the screen and the document on the screen?

18 MR. KOLNOWSKI: Yes, I can.

19 HEARING OFFICER COCHRAN: Thank you. Mr. Sarvey,  
20 please ask your questions.

21 MR. SARVEY: Mr. Kolnowski, I'd like you to talk  
22 about the tremendous amount of utility upgrades and service  
23 systems that are required to accommodate these data centers  
24 that are coming in, specifically the South Loop expansion and  
25 the five data center substations.

1 MR. KOLNOWSKI: I think the diagram you're showing is  
2 incorrect. I think you're asking figure 3.4, not table 3.4,  
3 correct?

4 MR. SARVEY: Yes.

5 HEARING OFFICER COCHRAN: Okay. Slide up, maybe.  
6 Let me find the controller.

7 Liza, try page 52 of the -- is it the Resource Map?  
8 Is there a title for this table? Or, I'm sorry, this figure,  
9 Mr. Sarvey?

10 MR. SARVEY: It's the Capital Improvement Map.

11 HEARING OFFICER COCHRAN: Keep going. Keep going,  
12 Liza. Keep going. Keep going. Looking for pictures.

13 MR. GALATI: Yeah, it's page 52 of the PDF.

14 HEARING OFFICER COCHRAN: 52 of the PDF, Liza. Thank  
15 you. Perfect thank you. Okay, now. Now, we're looking at  
16 figure 3-4, not table 3-4. Figure 3-4. What are your  
17 questions, Mr. Sarvey?

18 MR. SARVEY: Well, my question was to ask Mr.  
19 Kolnowski to describe the tremendous amount of utilities and  
20 service systems that are going to be required to accommodate  
21 all these data centers that are being proposed and being  
22 approved.

23 MR. KOLNOWSKI: In 2017 -- Santa Clara is a unique  
24 area compared to a utility. We have experienced an 7 percent  
25 annual growth, whereas a lot of utilities are flattening. As

1 we've investigated this in 2017 we came up with a plan to  
2 increase the capacity of our utility to be able to have a  
3 1,000-megawatt capability. And we laid out a series of  
4 projects, the South Loop expansion is a -- we currently have  
5 the South Loop as I think we've discussed before. Santa  
6 Clara utilizes a loop technology or a loop methodology for  
7 ensuring high reliability for power supply to customers. We  
8 don't -- we typically don't do a radial connection to a  
9 customer, we do a loop. So, if the loop fails, that the only  
10 breaks it in part, you end up with two radials.

11           And as we went through that, we realized we needed to  
12 do some upgrades. And the South Loop expansion has been on  
13 our books probably for about the last 15 years. We've been  
14 working on the design. So, we needed to expand the  
15 capability of the South Loop. The South Loop also feeds our  
16 residential community in the Sierra and Homestead  
17 Substations.

18           So, to improve, ensure the reliability for the  
19 residents and to accommodate system growth the Scott  
20 Receiving Station is a receiving station that brings in 115  
21 kv power. And we have a plan to upgrade the breakers and  
22 transformers to newer units, and it will also increase the  
23 capacity of the substation.

24           The Northern Receiving Station has two 230 to 115 kv  
25 transformers and they're nearing their end of life. So, we

1 came up with a project to install that.

2 We also have out here, in 2024, another transformer  
3 which is at the Northern Receiving Station, which is a  
4 parallel unit for our 230 line that we take from PG&E. Once  
5 we approach 1,000 megawatts we need to have -- we can  
6 withstand our 230 line going out of service in say a  
7 maintenance situation. But as we get to near 1,000  
8 megawatts, we need to have a backup for that. So, we came up  
9 with a plan to install a redundant transformer.

10 Serra Substation replacement is a substation that was  
11 build 42 years ago. It's a single-bank transformer. And,  
12 you know, we try to have more redundancy at the substations.  
13 This project's been on the books probably for about the last  
14 15 years.

15 Over the last 18 months we came to an agreement with  
16 -- we have a lease from a -- I'm trying to think, a medical  
17 supply company that has a 100-year lease. We're 42 years  
18 into the lease. We are committed to when we expanded the  
19 substation we wanted to make a larger footprint. We couldn't  
20 come to an agreement. We've reengineered and were able to  
21 keep the expansion in the existing footprint, which improves  
22 the reliability to our residents in that area.

23 Homestead Substation is similar. It's a two-phase  
24 project. We've got to do one transformer, then another  
25 transformer to enhance the load on that system. But that is

1 an infrastructure enhancement due to older equipment.

2           The Esperanca Substation is a substation that is  
3 coming because of City Place. It's a development project  
4 that the City had approved probably about -- it's been in  
5 process probably about eight to nine years. And as City  
6 Place comes onboard they're going to be taking about 42  
7 percent of the Esperance Substation, and the other remaining  
8 is going to be enhancing the reliability of the grid in that  
9 area.

10           Parker Substation, when this graph was originally  
11 created, Parker Substation was in development. You guys know  
12 it as McLaren. This was a Vantage project. There's a slight  
13 difference in nomenclature. We name a substation versus not  
14 the data center. So, Parker was the name of the substation  
15 but that was for McLaren. That project has been complete.  
16 That was commissioned about a year ago. And that station is  
17 currently in operation.

18           Fairview Substation is an additional transformer  
19 being added to. It was originally designed about ten years  
20 ago as a three-bank substation. Two transformers have been  
21 installed and a third bank is being added. That is a general  
22 distribution substation, but it also feeds the CoreSite Data  
23 Center.

24           The RW Substation is -- I don't know if I can say who  
25 it is, but that is for a data center.



1           And Laurelwood, there was some confusion about a  
2 Laurelwood Substation. This is not a substation for  
3 Laurelwood Data Center. But there's another substation being  
4 developed for another data center.

5           MR. SARVEY: Okay, so most of this utility growth is  
6 to accommodate data center growth, is that correct?

7           MR. KOLNOWSKI: We do see a lot of our growth as  
8 based on data centers, yes.

9           MR. SARVEY: Okay. Does the Walsh Data Center  
10 interconnect to any of these new substations?

11          MR. KOLNOWSKI: I do not believe so. I'm not  
12 positive, but I don't believe so.

13          MR. SARVEY: Okay. Okay, thank you.

14          MR. KOLNOWSKI: I believe the Walsh is having a  
15 dedicated data center for it and the name of the data -- or  
16 the substation, I'm not positive of.

17          MR. SARVEY: Do you have a separate carbon content  
18 for your nonresidential power mix?

19          MR. KOLNOWSKI: I'm not exactly sure what you're  
20 asking. We do -- what we present to the CEC is based on our  
21 overall portfolio. And that's --

22          MR. SARVEY: So, I notice your -- oh, I'm sorry, go  
23 ahead.

24          MR. KOLNOWSKI: It's how we prefer to look at it.  
25 And I believe that's how the Energy Commission prefers to

1 look at it. I'll try to find out the name of the buildup  
2 we're following.

3 MR. SARVEY: But your nonresidential power mix uses  
4 all your natural gas-fired resources and all your unspecified  
5 sources of power, is that correct?

6 MR. KOLNOWSKI: I'm not sure I exactly understand  
7 what you're asking there.

8 MR. SARVEY: Okay. What is the carbon content of the  
9 unspecified sources used in your nonresidential mix?

10 MR. KOLNOWSKI: I don't believe we have any -- are  
11 you looking at the power content label now?

12 MR. SARVEY: Yeah, 2018 power content label, yes.

13 MR. KOLNOWSKI: Let me find it. Do you want to put a  
14 copy of it up so we can look at it or I have a copy in front  
15 of me?

16 MR. SARVEY: Yeah, I have it as an exhibit. We can  
17 put it up.

18 HEARING OFFICER COCHRAN: What exhibit is that, Mr.  
19 Sarvey?

20 MR. SARVEY: Give me one second here and I'll find it  
21 for you.

22 MR. BABULA: This is Jared Babula. That's Exhibit  
23 501 of Mr. Sarvey's exhibits, and it has the page 3 that has  
24 the 2018 power content label on it.

25 MR. SARVEY: It's 507, Exhibit 507.

1 HEARING OFFICER COCHRAN: And is that -- and what  
2 page are you looking at, Mr. Sarvey?

3 MR. SARVEY: It's only one page.

4 HEARING OFFICER COCHRAN: Okay. Could you repeat  
5 your question to Mr. Kolnowski, please, about Exhibit 507?

6 MR. SARVEY: Yes. I just wanted to know what the  
7 carbon content of the unspecified resource is that you  
8 utilize in your nonresidential power mix.

9 MR. KOLNOWSKI: I'm not positive. I'd have to do  
10 some research on that.

11 MR. SARVEY: Okay.

12 MR. KOLNOWSKI: That is what usually comes from the  
13 Cal-ISO grid. And I believe there's a value that is modeled  
14 for that. And a lot of that occurs, you know, during the  
15 peak from noon to 6:00, while the sun is up. But,  
16 specifically, I don't have it off the top of my head.

17 MR. SARVEY: Does .428 metric tons per CO2 per  
18 megawatt sound familiar?

19 MR. KOLNOWSKI: I have to research it.

20 MR. SARVEY: For that number?

21 MR. KOLNOWSKI: It could be.

22 MR. SARVEY: Okay, no problem. I'll move on to the  
23 next question. SVP has already been impacted by the PG&E  
24 public safety shutoff events, hasn't it?

25 MR. KOLNOWSKI: The City of Santa Clara has not had

1 any power outages in Santa Clara caused by a PSPS.

2 MR. SARVEY: During the October PSPS shutoff SVP lost  
3 access to its geothermal resources that operates in  
4 conjunction with Northern California Power Authority, isn't  
5 that true?

6 MR. KOLNOWSKI: Correct.

7 MR. SARVEY: And how long were those geothermal  
8 resources offline?

9 MR. KOLNOWSKI: They were off for an extended period  
10 of time.

11 MR. SARVEY: Particularly, Geothermal Plant 1 was  
12 unable to come back online because of transmission line  
13 issues, is that correct?

14 MR. KOLNOWSKI: Correct.

15 MR. SARVEY: Okay. Do you have any estimate of how  
16 many megawatts of renewable energy were lost due to this  
17 curtailment?

18 MR. KOLNOWSKI: I do not.

19 MR. SARVEY: Okay.

20 MR. KOLNOWSKI: We have a fairly robust -- you know,  
21 we have 672 megawatts of renewable power that is available to  
22 us. So, if one resource goes down, it's not a -- the  
23 reliability and integrity of the grid was continued. And  
24 what will happen is when we do the 2019 power content label  
25 it will reflect what those -- what the impact of that was to

1 our GHG values.

2 MR. SARVEY: Thank you. Did SVP also lose access to  
3 some of its hydroelectric resources in Calaveras County due  
4 to the PSPS in October?

5 MR. KOLNOWSKI: Not the ones that we directly  
6 control, other than our Grizzly Power Plant, which has been  
7 out of service since the Camp Fire in 2018, due to a  
8 transmission line.

9 MR. SARVEY: Okay, thank you. Thank you. Do data  
10 centers report to the Silicon Valley Power every time they  
11 use their backup generators in emergency mode for any reason?

12 MR. KOLNOWSKI: No, they do not.

13 MR. SARVEY: Okay. So, did Vantage Data Center  
14 notify you when they tested all 30 diesel generators on May  
15 17th, 2017?

16 MR. KOLNOWSKI: Do not.

17 MR. SARVEY: Okay. Would a data center notify you if  
18 the operation of its backup generators due to a UPS failure  
19 or other internal issue, like the Friendster Data Center did  
20 in 2008? Would they report that to you?

21 MR. KOLNOWSKI: They typically report to us when we  
22 have a power outage, not when they operate their data centers  
23 or use their generators.

24 MR. SARVEY: So, basically, diesel generators could  
25 be operating without your knowledge, basically?

1 MR. KOLNOWSKI: Could. I do not -- they don't report  
2 to us, they're not required to.

3 MR. SARVEY: Okay.

4 MR. KOLNOWSKI: In fact --

5 MR. SARVEY: Are there -- go ahead.

6 MR. KOLNOWSKI: -- I found the information related to  
7 our urban content label. We follow AB 1110 and we work with  
8 the Energy Commission to make sure that we're doing that  
9 correctly in terms of the reporting for the power content  
10 label.

11 MR. SARVEY: Thank you. Are there other projects,  
12 other than these data centers that SVP has provided will  
13 serve letters to that have not commenced operations?

14 MR. KOLNOWSKI: I'm trying to think. I don't believe  
15 there's -- ask the question again. I'm trying to think of  
16 what you're asking for here, Mr. Sarvey.

17 MR. SARVEY: Pardon me?

18 MR. KOLNOWSKI: Could you ask your question again?  
19 I'm not sure I completely understand.

20 MR. SARVEY: Oh, sure. I was asking whether there  
21 are other projects that SVP has provided will serve letters  
22 to outside of the five data centers the CEC is permitting.

23 MR. KOLNOWSKI: I'm not positive we have provided  
24 will serve letters to all the data centers that are in the  
25 list.

1 MR. SARVEY: Okay.

2 MR. KOLNOWSKI: I don't have the list in front of me.  
3 But I know for us to -- I usually look at what agreements do  
4 we have, which for an agreement we have to go to counsel.

5 MR. SARVEY: Uh-hum.

6 MR. KOLNOWSKI: And not all the data centers that are  
7 on your list go to counsel or haven't gone to counsel yet.

8 MR. SARVEY: And do you have a GHG figure for 2019  
9 that SVP emitted?

10 MR. KOLNOWSKI: I do not have that yet.

11 MR. SARVEY: Not an actual number?

12 MR. KOLNOWSKI: No.

13 MR. SARVEY: Okay. So, the estimated GHG emissions  
14 from electricity used from just the five data centers the CEC  
15 is permitting is 693,519 metric tons per year, as shown in  
16 Exhibit 300, page 3. How do you propose to lower your GHG  
17 emissions to your 2030 level with those kind of impacts from  
18 the five data centers that the Energy Commission is  
19 permitting?

20 MR. KOLNOWSKI: Like I mentioned earlier, we  
21 currently have --

22 MR. GALATI: I'd like to make an objection to that  
23 question. Could you please, Mr. Sarvey, tell the witness  
24 where you got that number? And you said something about page  
25 3. Page 3 of what?

1           MR. SARVEY: That's my exhibit. That's my opening  
2 testimony. Page 3 has a table that shows all of the  
3 projected GHG emissions from the CEC data centers, and I  
4 backed out the San Jose Data Center since Silicon Valley  
5 Power doesn't have any reason to just provide them with  
6 electricity. So, basically, I was just telling him,  
7 reporting to him what the CEC initial studies project as the  
8 GHG emissions from these five data centers. And I'm asking  
9 him at 692,519 metric tons per year how Silicon Valley Power  
10 is going to meet their GHG emission reductions that they're  
11 supposed to achieve by 2030.

12           HEARING OFFICER COCHRAN: Okay, give us just a  
13 moment. Liza, could you pull up exhibit -- I believe it's  
14 Exhibit 501, Mr. Sarvey, or is it 500?

15           MR. SARVEY: 500.

16           HEARING OFFICER COCHRAN: Could you pull up Exhibit  
17 500, please, so we could all refer to the table? And what  
18 page is this on in your testimony, Mr. Sarvey?

19           MR. SARVEY: Page 3. Oh, excuse me, it's on page 4,  
20 I'm sorry.

21           HEARING OFFICER COCHRAN: Is this the correct table,  
22 Mr. Sarvey, that's currently on the screen?

23           MR. SARVEY: I can't -- I can't see the screen so I  
24 couldn't tell you.

25           HEARING OFFICER COCHRAN: Oh, you can't see the



1 screen.

2 MR. SARVEY: Let me -- let me check it.

3 HEARING OFFICER COCHRAN: Data center application.

4 MR. SARVEY: I can check it in just my testimony.

5 Yeah. Yeah, that's the correct one.

6 HEARING OFFICER COCHRAN: Thank you. And what was  
7 your question to Mr. Kolnowski?

8 MR. SARVEY: What was my question to him?

9 HEARING OFFICER COCHRAN: Regarding this table, yes.

10 MR. SARVEY: Yeah, is SVP going to meet its GHG  
11 reduction for 2030 with that kind of impact coming in from  
12 these data centers?

13 MR. KOLNOWSKI: I'm not positive where those values  
14 are from. Are those from the electricity or are those from  
15 the standby operation of the generators?

16 MR. SARVEY: Those are GHG emissions from electricity  
17 used at the five data centers.

18 MR. KOLNOWSKI: So, again, as we talker earlier is we  
19 currently have 112 new megawatts of renewable power coming on  
20 that will take our total mix up to 1,390 some megawatts. Of  
21 that, 70 percent is renewable. We are marching to a  
22 renewable portfolio.

23 MR. SARVEY: Uh-hum.

24 MR. KOLNOWSKI: And we are obligated to get there and  
25 we will get there. And whether it's via other projects that

1 we enter into on our data facilities, solar facilities, wind  
2 facilities, we'll do what it takes to get us to follow the  
3 requirements of the RPS Standard.

4 And one other thing to add is even though these  
5 projects are listed at 99 megawatts, our history has shown  
6 they typically load approximately to 50 percent.

7 HEARING OFFICER COCHRAN: Mr. Kolnowski, could you  
8 repeat that again? I'm not sure I followed that.

9 MR. KOLNOWSKI: So, if you look at McLaren Data  
10 Center, McLaren Data Center shows 99 megawatts. This was  
11 approved. This is what we call the Parker Substation. It  
12 went operational one year ago. Today, that facility's  
13 operating at less than 2 megawatts one year after  
14 installation.

15 So, while these projects are designed for a certain  
16 capacity, our experience of what we have seen from them and  
17 where they load is approximately, somewhere between around 50  
18 percent. I can't explain it and I don't have the answer as  
19 to why the data centers aren't loaded more, but that's what  
20 it is.

21 MR. SARVEY: Well, I appreciate your answers --

22 HEARING OFFICER COCHRAN: Thank you.

23 MR. SARVEY: -- Mr. Kolnowski. That's all I have,  
24 thank you.

25 HEARING OFFICER COCHRAN: Mr. Galati, did you have

1 any questions?

2 MR. GALATI: Yes, I do. Mr. Kolnowski, thank you for  
3 coming. This is Scott Galati, representing the Applicant.

4 A question that I have that you just talked about is  
5 you know that these data centers ramp up over time from a  
6 very low load to a large load, correct?

7 MR. KOLNOWSKI: That's correct.

8 MR. GALATI: And in your Integrated Resource Plan do  
9 you work with the data centers to understand what they might  
10 need 12 months from now, up to 60 months from now, do you  
11 take that into account?

12 MR. KOLNOWSKI: Yes, we do.

13 MR. GALATI: So, you work with these large users  
14 directly and then integrate that into your overall  
15 procurement plan, correct?

16 MR. KOLNOWSKI: Yes, we do. They give us a -- before  
17 they come online they give us a ramp schedule. And we meet  
18 with them yearly. And as long as they're working for us to  
19 find out where they are in their ramp schedule. And like  
20 coming back to McLaren, they're currently at less than two  
21 megawatts.

22 MR. GALATI: Right. So, we're crossing the boundary  
23 between two subjects. I'm going to wait and ask you more  
24 about Energy Resources in a moment. But we're really talking  
25 about Utility Systems and sort of the infrastructure.

1           So, I want to focus you back on the substations and  
2 the South Loop Project figure. You don't have to put it up.  
3 I just want you to -- that you just testified to with -- that  
4 Mr. Sarvey asked you questions about.

5           MR. KOLNOWSKI: Okay.

6           MR. GALATI: The Laurelwood Substation, isn't that  
7 actually the substation that Walsh is going to connect to?

8           MR. KOLNOWSKI: I'll -- it may. I'll be honest, I'm  
9 not -- I get confused between what we call them and what  
10 they're called in the data center, so I'm not positive.

11          MR. GALATI: Okay. I think we can clarify that with  
12 another witness who will know the answer to that.

13          But isn't it true that the data centers that are  
14 interconnecting to those major substations you have on that  
15 figure are actually funding, or building, or both those  
16 substations?

17          MR. KOLNOWSKI: Yes.

18          MR. GALATI: And aren't they also funding their fair  
19 share of the South Loop upgrade?

20          MR. KOLNOWSKI: Yes.

21          MR. GALATI: So, from a -- would you then say that  
22 the new substations in the South Loop upgrade have no impact  
23 on Silicon Valley Power's resources? From an infrastructure  
24 perspective?

25          MR. KOLNOWSKI: Correct.

1 MR. GALATI: I don't -- Ms. Cochran, I'm having  
2 difficulty because we did cross the boundaries into Energy  
3 Resources. Since I don't want to hold this witness over is  
4 it okay for me to ask questions in that area as well?

5 HEARING OFFICER COCHRAN: Yes, please do. Because I  
6 think that we've already crossed into the realm of both. I  
7 mean I think when we started talking about the power mix  
8 label, et cetera we were getting into resources as opposed to  
9 just the system itself.

10 MR. GALATI: Okay. You just -- thank you. You  
11 described, Mr. Kolnowski, that in the Integrated Resource  
12 Plan you work with the data centers as you move forward,  
13 correct?

14 MR. KOLNOWSKI: Yes.

15 MR. GALATI: And that Integrated Resource Plan, you  
16 actually submit one at least every five years to the Energy  
17 Commission, is that correct?

18 MR. KOLNOWSKI: Yes.

19 MR. GALATI: And do you anticipate the next one you  
20 submit will be based on the best data you have then,  
21 including data centers?

22 MR. KOLNOWSKI: Yes.

23 MR. GALATI: I'm sorry?

24 HEARING OFFICER COCHRAN: What was that?

25 MS. LOPEZ: Hi, this is Liza. Abby Young, can you

1 please mute yourself?

2 HEARING OFFICER COCHRAN: Thank you.

3 MR. GALATI: Mr. Kolnowski, I'm going to ask that one  
4 again because I'm not sure whether they heard you or you  
5 heard me.

6 When you submit another Integrated Resource Plan and  
7 go through the Commission process, you will be addressing  
8 what the data centers have told you they need in the upcoming  
9 years, correct?

10 MR. KOLNOWSKI: Yes.

11 MR. GALATI: Okay. Can I also have Exhibit 30,  
12 please, put up on the screen?

13 HEARING OFFICER COCHRAN: Can you do that, please  
14 Liza? Thank you.

15 MR. GALATI: And I apologize, it's a -- I could only  
16 put it out in a very small font. It's Exhibit 30.

17 MS. LOPEZ: There is no Exhibit 30.

18 MR. GALATI: It probably hasn't been added, yet. I  
19 identified it later in response to something Mr. Sarvey was  
20 filing. I can give you the date and the transaction number.

21 MS. LOPEZ: Okay.

22 HEARING OFFICER COCHRAN: That would be helpful.

23 MR. GALATI: Okay, bear with me for a moment. My  
24 computer skills are not as good as they should be.

25 HEARING OFFICER COCHRAN: Is this -- were these

1 listed in your filing yesterday afternoon?

2 MR. GALATI: Correct. It was docketed at, let's see  
3 transaction number 233129. Docketed yesterday. It was  
4 admitted into evidence today with no objection.

5 And I apologize ahead of time because of the small  
6 nature of the way that this email printed out. But if we  
7 could zoom in to who the email -- who actually, from the very  
8 bottom there, there's a person there named Kathleen Hughes,  
9 who is the author of that email. Can you see that, Mr.  
10 Kolnowski?

11 MR. KOLNOWSKI: Yes.

12 MR. GALATI: Kathleen Hughes works for Silicon Valley  
13 Power?

14 MR. KOLNOWSKI: Yes. She is a Senior Division  
15 Manager in our Resources Group.

16 MR. GALATI: Okay. And do you see the table there?  
17 It looks like it's carbon intensity number projections from  
18 Silicon Valley Power. Are you familiar with that?

19 MR. KOLNOWSKI: Yes.

20 MR. GALATI: Would you say that that represents what  
21 you believe Silicon Valley Power's carbon intensity factor  
22 will be over time, what you're shooting for?

23 MR. KOLNOWSKI: Correct, yes.

24 MR. GALATI: Okay. Do you believe that you -- that  
25 Silicon Valley power will have any difficulty in procuring

1 additional resources, should it need them over time to supply  
2 increasing data center demand?

3 MR. KOLNOWSKI: We do not see an issue with doing the  
4 necessary procurement.

5 MR. GALATI: You've worked with data centers quite a  
6 bit, right --

7 MR. KOLNOWSKI: Yes.

8 MR. GALATI: -- over the last several years?

9 MR. KOLNOWSKI: Yes.

10 MR. GALATI: And you work directly with the planning  
11 department to determine when new data centers are being  
12 proposed, correct?

13 MR. KOLNOWSKI: Yes.

14 MR. GALATI: Does every data center that is proposed  
15 actually get constructed in the City of Santa Clara?

16 MR. KOLNOWSKI: No, it does not.

17 MR. GALATI: I have no further questions, thank you.

18 HEARING OFFICER COCHRAN: Thank you. Mr. Babula, did  
19 you have anything that you wanted to follow up on?

20 MR. BABULA: Yes, I just have one follow-up question.  
21 Mr. Kolnowski, that figure that Mr. Sarvey had you look at,  
22 3-4, that showed the timeline of different projects that you  
23 went over, project-by-project, were most of those -- or, let  
24 me rephrase that. Were all those projects and all those  
25 upgrades in the process prior to 2019 when the Walsh Project



1 was filed?

2 MR. KOLNOWSKI: Yes.

3 MR. BABULA: Okay. Thank you, I have nothing  
4 further.

5 HEARING OFFICER COCHRAN: Okay. So, I know that we  
6 have sort of mixed Utilities and Service Systems and Energy  
7 Resources together towards the end. I don't want to  
8 foreclose anyone. I want to make sure, have all of the  
9 questions you want to ask in both of those topic areas been  
10 asked? Mr. Babula?

11 MR. BABULA: Yes, I've completed those.

12 HEARING OFFICER COCHRAN: Mr. Galati?

13 MR. GALATI: Something came up that I would like to  
14 swear in one of my witnesses that they can answer.

15 HEARING OFFICER COCHRAN: Okay. And who is that?

16 MR. GALATI: That is Joe Hubbard.

17 HEARING OFFICER COCHRAN: Mr. Hubbard, are you online  
18 and unmuted? Okay, my screen shows that you are unmuted, Mr.  
19 Hubbard.

20 MR. GALATI: Joe, could you unmute your phone?

21 HEARING OFFICER COCHRAN: Mr. Hubbard?

22 MR. GALATI: If you would allow me to -- if you would  
23 allow me to come back to Mr. Hubbard on that topic, I will  
24 make sure that he's available then.

25 HEARING OFFICER COCHRAN: Okay. Well, let's do this.

1 I do have a question right now that I think fits into this.  
2 And it concerns the PUE for the project. Does everyone  
3 understand what I mean by the PUE?

4 MR. BABULA: Yes. This is Jarod.

5 MR. GALATI: Yes, we do. And I need probably Mr.  
6 Hubbard on the phone to answer that.

7 HEARING OFFICER COCHRAN: Oh, okay. Then I'll just  
8 continue to hold my question.

9 MR. GALATI: So, I have nothing else on this, other  
10 than with Mr. Hubbard. I'm going to take a second and try to  
11 reach him on the telephone. Maybe he's having difficulties.

12 (Pause)

13 MR. GALATI: Ms. Cochran, I talked to Mr. Hubbard.  
14 He can hear everything. He couldn't speak. Everything's  
15 unmuted on his end and it looks like it's unmuted here. He's  
16 going to hang up and call in again.

17 HEARING OFFICER COCHRAN: Okay, thank you.

18 MR. GALATI: Ms. Cochran, I have some direct evidence  
19 that if I could ask him about, it would also -- it might  
20 answer your PUE question.

21 HEARING OFFICER COCHRAN: Okay.

22 (Pause)

23 MR. HUBBARD: All right, Joe Hubbard on. Can you  
24 hear me?

25 MR. GALATI: Yes.

1 HEARING OFFICER COCHRAN: Yes, thank you, Mr.  
2 Hubbard. You would not have been sworn. Can you raise your  
3 right hand?

4 MR. HUBBARD: Yes, ma'am.

5 HEARING OFFICER COCHRAN: Do you swear or affirm that  
6 the testimony you're about to give in this proceeding is the  
7 truth, the whole truth, and nothing but the truth.

8 MR. HUBBARD: I do.

9 HEARING OFFICER COCHRAN: Thank you.

10 Mr. Galati, please proceed.

11 MR. GALATI: Yes, Mr. Hubbard, can you please  
12 describe for the court reporter who you work for?

13 MR. HUBBARD: I am the Senior Design Director for  
14 Digital Realty, for the Central and West Regions.

15 MR. GALATI: Okay. Did you hear the description that  
16 Mr. Kolnowski in his testimony described of data centers  
17 don't typically use the maximum amount of electricity that  
18 they're designed for?

19 MR. HUBBARD: Yes, I did.

20 MR. GALATI: And do you agree that in your  
21 experience, in Digital Realty's experience is that data  
22 centers are typically in the 60 to 70 percent of that design  
23 maximum?

24 MR. HUBBARD: I would. That is typically what we  
25 see, historically.

1 MR. GALATI: Is that because tenants don't typically  
2 use all the electricity that is available to them?

3 MR. HUBBARD: It is.

4 MR. GALATI: So, you could have a building that was  
5 completely leased out and occupied, but it would -- it's not  
6 likely that it would use the maximum electricity?

7 MR. HUBBARD: That is very correct.

8 MR. GALATI: Could you also describe the project's  
9 further design and the PUE?

10 MR. HUBBARD: Yes, we've continued to do the design  
11 and further refine the design for Walsh Data Center. And the  
12 original estimated of expected PUE that we applied to the  
13 application has been revised to be downwards of 1.8 to 1.23.  
14 And which is for this market. And so, it's in our interest,  
15 financial interest to keep the PUE as low as possible because  
16 that results in a direct cost to us.

17 MR. GALATI: I guess I'll just ask you this question  
18 because Mr. Sarvey asked it to Mr. Kolnowski. Do you plan on  
19 doing, after the facility is built and occupied, a pull-the-  
20 plug test?

21 MR. HUBBARD: We do not.

22 MR. GALATI: I don't have any further questions for  
23 Mr. Hubbard.

24 HEARING OFFICER COCHRAN: Mr. Babula, do you have any  
25 questions?

1 MR. BABULA: Yeah, I was muted. I just have one  
2 question. You've described how your PUE is coming down. Is  
3 your rack rate still the same as initially proposed or is  
4 that reduced as well?

5 MR. HUBBARD: No, the same rack rates, just  
6 refinement in the efficiencies of our mechanical systems.

7 MR. BABULA: And then one other question. On the  
8 pull-the-plug test, can you explain what that is and why  
9 you're not going to be doing it?

10 MR. HUBBARD: What typically a pull-the-plug test is  
11 you pull the main fuse on a switch gear and the whole  
12 building goes dark, and you see the whole building go to  
13 generator. We don't do that typically because our customers,  
14 once they're online, and once the going is online are not  
15 acceptable to that. It's just --

16 MR. BABULA: Thank you, I have no further questions.  
17 Oh, sorry.

18 MR. HUBBARD: No, no, no, I was done. Thank you.

19 MR. BABULA: Okay, thanks. I have no further  
20 questions.

21 HEARING OFFICER COCHRAN: Thank you. Mr. Sarvey, do  
22 you have any questions for Mr. Hubbard?

23 MR. SARVEY: I believe I do, but it could be another  
24 witness, but it's definitely the Applicant's witness.

25 So, you explained that your PUE is going to be

1 revised downward. Could you tell us what the design changes  
2 are?

3 MR. HUBBARD: Well, originally, we had not selected  
4 the equipment at the time of application for our cooling  
5 systems. We were in design at the time with the site and  
6 shell and had projected what our mechanical systems were  
7 going to be. We have been in full design, now, and working  
8 with different manufacturers on chiller technology,  
9 compressor technology, and we have run our own studies to  
10 show that we're -- you know, based on the efficiency of these  
11 units that the projected 1.3 is going to come down to the  
12 1.8, 1.23 area.

13 MR. SARVEY: Has CEC staff been made aware of these  
14 design changes, i.e. perhaps your criteria pollutants will go  
15 up or more electricity use will occur? Have you consulted  
16 with the CEC on these design changes?

17 MR. HUBBARD: We have not.

18 MR. SARVEY: Okay. Is the Applicant willing to  
19 accept a condition limiting the expected PUE to 1.8 to 1.23?

20 MR. HUBBARD: Yes.

21 MR. SARVEY: They are, awesome. Thank you.

22 MR. HUBBARD: I'm sorry what was your question again?  
23 Can you repeat the question? Sorry.

24 MR. SARVEY: I said is the Applicant willing to  
25 accept the condition limiting the expected PUE to 1.18 to

1 1.23?

2 MR. HUBBARD: Limiting the condition that we will not  
3 go over that at all? I mean that's our projection. I don't  
4 know if I'm understanding the question.

5 MR. SARVEY: What I'm asking is would you guys accept  
6 a condition limiting you to that range?

7 MR. HUBBARD: I'm not the authority to be able to  
8 speak on behalf of the company to limit us in that condition.  
9 That's just -- again, this is a design correct area that  
10 we're heading towards, that we'd be using.

11 MR. GALATI: I would also object to the  
12 characterization that a limitation of a PUE is necessary to  
13 mitigate a significant impact. And so, therefore, on behalf  
14 of the company I will say we will not accept a condition like  
15 that.

16 MR. SARVEY: Okay, thank you, Mr. Galati on behalf of  
17 the company.

18 Would the Applicant be willing to accept the  
19 condition that they would require the maximum amount of solar  
20 generation feasible on the site if it was acceptable to the  
21 City of Santa Clara?

22 MR. HUBBARD: We haven't looked into solar  
23 generation, so I can't really speak to that.

24 MR. SARVEY: Okay. Thank you, that's all I have.

25 HEARING OFFICER COCHRAN: So, I have a question. I'm

1 not sure if this is the appropriate time. But if it's for a  
2 different panel that would be fine.

3 When the backup generators are operated for testing  
4 and maintenance what happens to the power generated during  
5 those operations?

6 MR. HUBBARD: Well, it depends on the situation.  
7 Typically, when they're tested monthly it is without load.  
8 So, we would still be on SVP power, Silicon Valley Power at  
9 that time. Typically, they're tested without the building  
10 load, so it's just more for run time to keep them -- to make  
11 sure everything's working efficiently and when we do lose SVP  
12 power that they will be available.

13 HEARING OFFICER COCHRAN: Okay, thank you for that.  
14 Does anybody have a follow-up question?

15 MR. SARVEY: May I have a follow-up question on that,  
16 please?

17 HEARING OFFICER COCHRAN: Yes, you may.

18 MR. SARVEY: Okay, I'm sorry. This is Bob Sarvey.  
19 Is it possible to store the energy from the testing of the  
20 generators in a battery energy system?

21 MR. HUBBARD: Possibly. I'm not familiar of one from  
22 a diesel energy stored energy system that's compatible with  
23 our engines. It may be out there, but we haven't looked into  
24 it.

25 MR. SARVEY: Okay, thank you. That's all I have.



1 HEARING OFFICER COCHRAN: Anything else on either  
2 Utilities and Service Systems or Energy Resource?

3 MR. GALATI: Is Mr. Sarvey going to testify on Energy  
4 Resources? I have cross-examination in that area. I haven't  
5 heard his direct testimony.

6 HEARING OFFICER COCHRAN: Could you -- Mr. Sarvey?

7 MR. SARVEY: My direct testimony would just be in  
8 writing. If you have some questions, please ask.

9 HEARING OFFICER COCHRAN: Mr. Galati, please ask your  
10 questions.

11 MR. GALATI: After hearing Mr. Kolnowski's testimony  
12 and going through the Integrated Resources Plan and hearing  
13 how they work with data centers do you still contend -- and  
14 hearing that the data centers have ramp over time, do you  
15 still contend that Silicon Valley Power will not have enough  
16 resources to supply the Walsh Data Center or other data  
17 centers?

18 MR. SARVEY: I'm not saying they won't have the  
19 resources, I'm saying they're going to have to add a lot of  
20 resources. And when you look at the resources and you talk  
21 about 1,200 megawatts, you have to look at the net qualifying  
22 capacity of those resources. And if it's all renewable, your  
23 net qualifying capacity is much lower than what he's quoting.

24 Now, if you look at the Integrated Resource Plan, the  
25 amount of resources that Silicon Valley claims for 2019 is

1 somewhere in the 800 range, whereas the numbers we're hearing  
2 now that Silicon Valley has 1,200 megawatts of resources.  
3 But when you take the net qualifying capacity, yeah, I say  
4 you're still short.

5 MR. GALATI: You believe that CEQA requires Silicon  
6 Valley Power to purchase all of these resources now to supply  
7 every data center, even though they're not built?

8 MR. SARVEY: No, absolutely not. What I'm saying is  
9 the 650 megawatts that these data centers are projected to  
10 use is more than the maximum capacity of the system right now  
11 when you add it to the existing -- when you add it to the  
12 existing annual usage of somewhere around 587 megawatts is  
13 their peak capacity. So, yeah, I say that's true.

14 MR. GALATI: And you understand that it's unlikely  
15 the data centers together, even if they're all built, would  
16 ever reach that peak capacity, correct?

17 MR. SARVEY: Oh, I understand from what your witness  
18 said it would be 70 percent. But I've also read that many of  
19 these data centers are already sold out, like the Vantage  
20 Data Center is already at maximum capacity and I expect the  
21 other ones will be with the tremendous growth in data centers  
22 and how everybody's using all of this data. Particularly  
23 right now, when everybody's at home. So, yeah, I expect that  
24 it will outpace it.

25 MR. GALATI: I have no further questions.

1 HEARING OFFICER COCHRAN: Okay. Last call for  
2 Utilities and Service Systems and Energy Resources. Anyone  
3 else?

4 MR. BABULA: This is Jared Babula. So, I do have one  
5 cross question for Mr. Sarvey, since Mr. Galati asked a  
6 couple of my other ones.

7 HEARING OFFICER COCHRAN: Thank you, Mr. Babula,  
8 please proceed.

9 MR. BABULA: Okay. So, in various -- Mr. Sarvey, in  
10 various places in your filing, such as Exhibit 500, pages 1  
11 and 2, and 501, page 4, you describe the data centers as  
12 being approved or permitted by the Energy Commission. Is  
13 your contention that the Commission approved the construction  
14 and operation of the McLaren and Laurelwood Data Centers and  
15 the Walsh facility is now pending such approval?

16 MR. SARVEY: Well, yeah, they did approve those two  
17 data centers. Yeah, I believe that. And I believe they'll  
18 approve this one. I believe they'll approve the rest of  
19 them.

20 MR. BABULA: And that's approve the construction and  
21 operation of those data centers?

22 MR. SARVEY: Absolutely. I think the Energy  
23 Commission will approve all of these data centers. I have no  
24 question in my mind that they will.

25 MR. BABULA: Okay, thank you. That's the only

1 question I have.

2 MR. SARVEY: Okay.

3 HEARING OFFICER COCHRAN: Okay. Mr. Sarvey, did you  
4 have anything you wanted to say to sum up?

5 MR. SARVEY: No, I'll save that for my closing  
6 argument. Thank you.

7 HEARING OFFICER COCHRAN: Okay. So, with that we  
8 have concluded Utilities and Service Systems, and Energy  
9 Resources.

10 Are we ready, now, to proceed to Air Quality, Public  
11 Health and Greenhouse Gases?

12 MR. BABULA: This is Jared Babula for staff. Yes.

13 HEARING OFFICER COCHRAN: Mr. Galati?

14 MR. GALATI: Yes, we're ready.

15 HEARING OFFICER COCHRAN: Mr. Sarvey?

16 MR. SARVEY: Yes, I'm ready.

17 HEARING OFFICER COCHRAN: Okay. For the witnesses  
18 who are about to testify for Air Quality, Public Health and  
19 Greenhouse Gases. Staff, can you identify your witnesses  
20 please?

21 MR. BABULA: Yes, that would be Dr. Tao Jiang and Dr.  
22 Ann Chu.

23 HEARING OFFICER COCHRAN: As well as Mr. Kolnowski  
24 and Mr. Hilken from Bay Area Air Quality Management District?

25 MR. BABULA: Right. Well, so, let me just also --

1 so, for who's going to provide from staff, who will have an  
2 opening statement, that would be Dr. Tao Jiang and Dr. Ann  
3 Chu.

4 We also have available to address cross questions,  
5 depending on the nature of the question, Dr. Wenjun Qian and  
6 Brewster Birdsall from staff.

7 And then, from the Bay Area Air Quality Management  
8 District there's Mr. Henry Hilken.

9 HEARING OFFICER COCHRAN: Thank you. Okay, from  
10 Applicant, who are you planning to either have direct or  
11 cross-examination of?

12 MR. GALATI: So, for direct and an opening statement  
13 we have Mr. Greg Darvin. I guess I'll go ahead and have Mr.  
14 Michael Lisenbee sworn just in case there's any crossover  
15 with Greenhouse Gas Emissions. And Mr. Hubbard is already  
16 sworn. Those are my three witnesses, should he be needed.  
17 But Mr. Darvin is the only one that will make an opening  
18 statement in Air Quality and Public Health.

19 HEARING OFFICER COCHRAN: Okay. And Mr. Sarvey, are  
20 you -- is there anyone else?

21 MR. SARVEY: There's just me.

22 HEARING OFFICER COCHRAN: Okay. So, if I could have  
23 Mr. Hilken, Dr. Jiang, Dr. Chu, Dr. Qian, Mr. Birdsall, Mr.  
24 Darvin and Mr. Lisenbee please raise your right hand. And  
25 then what I'm going to have you do is I'm going to have each

1 of you then respond orally that you have accepted the oath.

2 Do you swear or affirm that the testimony that you're  
3 about to give in this proceeding is the truth, the whole  
4 truth, and nothing but the truth?

5 Mr. Hilken?

6 MR. HILKEN: Yes.

7 HEARING OFFICER COCHRAN: Dr. Jiang?

8 DR. JIANG: Yes.

9 HEARING OFFICER COCHRAN: Dr. Chu?

10 DR. CHU: Yes.

11 HEARING OFFICER COCHRAN: Dr. Qian?

12 DR. QIAN: Yes.

13 HEARING OFFICER COCHRAN: Mr. Birdsall? Mr.  
14 Birdsall?

15 MR. BIRDSALL: Yes.

16 HEARING OFFICER COCHRAN: Mr. Darvin? I've unmuted  
17 you, Mr. Darvin, if that was the issue.

18 MR. DARVIN: Yes.

19 HEARING OFFICER COCHRAN: And finally, Mr. Lisenbee?

20 MR. LISENBEE: Yes.

21 HEARING OFFICER COCHRAN: Okay. Let the record  
22 reflect that all the witnesses have been sworn.

23 Mr. Galati, would you like to go first?

24 MR. GALATI: Yes, please.

25 HEARING OFFICER COCHRAN: Please proceed.

1 MR. GALATI: All right. For Mr. Darvin and Mr.  
2 Lisenbee, would you please just state your name for the  
3 record and just a brief description of what you're doing for  
4 the project? I'll have Mr. Lisenbee go first.

5 MR. LISENBEE: This is Mike Lisenbee. I'm a Senior  
6 Project Manager at David J. Powers & Associates, which is a  
7 CEQA consulting firm in San Jose. I've been a CEQA  
8 practitioner at David J. Powers & Associates for 13 years.  
9 And my typical role is to prepare legally defensible CEQA  
10 documents on behalf of lead agency staff.

11 For this project, my role was to prepare the SPPE  
12 application on behalf of the project Applicant.

13 MR. GALATI: Mr. Lisenbee, we'll come back to you in  
14 case there's any questions.

15 But Mr. Darvin, could you go ahead?

16 MR. DARVIN: Sure. My name is Greg Darvin and I'm  
17 the Air Quality Consultant who prepared the Air Quality and  
18 Public Health sections of the small power plant exemption on  
19 behalf of the Applicant. I'm the Senior Meteorologist for  
20 Atmospheric Dynamics. And I've been actively involved in CEC  
21 proceedings in both Air Quality and Public Health over the  
22 past 20 years.

23 MR. GALATI: Mr. Darvin, could you please summarize  
24 your testimony, really focusing on the questions that the  
25 Committee had asked us to address in this hearing?

1           MR. DARVIN: Yes. Specifically, I believe that's  
2 with the cumulative health risk impacts that we prepared,  
3 which we followed the Bay Area CEQA guidelines, and which  
4 includes looking at sources out to 1,000 feet. And based on  
5 comments we received from the CEC, we actually expanded that  
6 radius to include the San Jose Airport.

7           Using that cumulative analysis we found, with San  
8 Jose Airport and other background sources, we had found that  
9 cumulative impacts from all background projects following the  
10 Bay Area CEQA guidelines for doing the cumulative analysis  
11 showed that all impacts were less than significance.

12           You know, one comment I want to add to that, too, is  
13 that typically the Bay Area CEQA guidelines have us just look  
14 at sensitive receptors within 1,000 feet of the project site,  
15 and there are no sensitive receptors within that prescribed  
16 distance.

17           MR. GALATI: And Mr. Darvin --

18           MR. DARVIN: Initially -- sorry, go ahead, Scott.

19           MR. GALATI: Did you review Mr. Sarvey's testimony?

20           MR. DARVIN: Yes, I did.

21           MR. GALATI: Do you have any comments or additional  
22 information you'd like to add that you think might be helpful  
23 for the Committee?

24           MR. DARVIN: At this time not really, just other than  
25 the methods that he -- or some of the impacts that he cited



1 using screening modeling results from past projects probably  
2 are not the best approach to look at these types of projects.  
3 But realistically, you know, all the analyses that we did  
4 following the guidelines have shown insignificant impact.  
5 So, no additional comments on Mr. Sarvey's testimony.

6 MR. GALATI: And can you describe -- the project is  
7 using diesel particulate filters, correct?

8 MR. DARVIN: That is correct.

9 MR. GALATI: And what do they actually do?

10 MR. DARVIN: They actually reduce the emissions of  
11 diesel particulate matter by up to 90 percent. They're a  
12 type of filter, basically, that reduce the overall emissions  
13 of particular matter. Applying DPFs to these types of  
14 projects significantly reduce the risk, the modeled risk  
15 impacts, and the associated health risk impacts associated  
16 with these types of projects.

17 The typical standard Tier 2 emission factor that we  
18 often use for diesel engines is about .15 grams per brake  
19 horsepower hour of diesel particular matter. These diesel  
20 particulate filters proposed for the project would drop the  
21 DPF emissions by over 90 percent to .01 grams per brake  
22 horsepower hour. So, a sizeable drop in emissions.

23 MR. GALATI: Can you please briefly describe for the  
24 difference of a diesel engine such as this versus maybe the  
25 traditional power plant that the Commission is aware of?

1           MR. DARVIN: Sure. What we found on most  
2 reciprocating engines or diesel engines is that a lot of the  
3 impact's due to the type of the source, namely reciprocating  
4 engine has a small amount of plume rise based on both  
5 momentum and exit temperature. As compared to let's say a  
6 turbine, which is what we call a mass machine, which  
7 typically has high volumes of mass or air going through it,  
8 resulting in much higher plume rise and often a higher  
9 temperature.

10           But what we've found typically with smaller engines  
11 or smaller sources, such as diesel reciprocating engines in  
12 the 3 megawatt range, most of the modeled impacts are  
13 immediately adjacent to the property fence line. Whereas  
14 turbines, often the impacts extend out some distance.

15           MR. GALATI: Thank you, Mr. Darwin. I don't have any  
16 more direct questions.

17           HEARING OFFICER COCHRAN: All right, thank you.  
18 Staff, do you have your direct information ready?

19           MR. BABULA: Yes. So, I'd like to start, then, with  
20 Mr. Henry Hilken from the Bay Area Air Quality Management  
21 District.

22           HEARING OFFICER COCHRAN: Go ahead.

23           MR. BABULA: Okay, Mr. Hilken, can you just provide  
24 your name and your title?

25           MR. HILKEN: Yes, Henry Hilken, H-I-L-K-E-N. I'm the

1 Director of Planning and Climate at the Bay Area Air Quality  
2 Management District.

3 MR. BABULA: And what are your responsibilities  
4 there?

5 MR. HILKEN: I oversee a couple of teams. I oversee  
6 an air quality planning team that prepares local and regional  
7 air quality plans. It also does a lot of our CEQA work and  
8 other work with cities and counties. And I also oversee a  
9 climate protection group that coordinates many of the Air  
10 District's climate activities.

11 MR. BABULA: Are you aware that the District  
12 submitted comments on the CEC staff's initial study for the  
13 Walsh Data Center Project?

14 MR. HILKEN: Yes.

15 MR. BABULA: And that based on the direction of the  
16 Committee overseeing the Walsh proceeding, CEC staff  
17 developed additional analysis to address comments made by the  
18 District related to public health and GHGs. Have you  
19 reviewed CEC staff's additional analysis?

20 MR. HILKEN: Yes.

21 MR. BABULA: In the area of Public Health did CEC's  
22 cumulative HRA, or health risk assessment analysis address  
23 the concerns raised by the District in its comments on  
24 initial study?

25 MR. HILKEN: Yes, they did.

1           MR. BABULA: Do you agree with CEC staff's cumulative  
2 health risk assessment analysis conclusion that the project's  
3 contribution to PM 2.5 of .00006 micrograms per meter squared  
4 is not cumulatively considerable?

5           MR. HILKEN: I agree that that's a very, very small  
6 increment that's added to other sources within that radius  
7 that was modeled. Certainly much more significant are  
8 freeways, and roadways, and railways. Mobile sources for the  
9 most part are much more significant a contribution from this  
10 project.

11           MR. BABULA: In the area of GHG did staff's  
12 supplemental information regarding the product's consistency  
13 with long-term state GHG reduction goals address the concerns  
14 raised by the District in its comments on the initial study?

15           MR. HILKEN: Well, the staff responses were very  
16 responsive. The CEC staff added additional language  
17 regarding state programs, regulatory programs, and executive  
18 orders that do speak to long range greenhouse gas reduction  
19 statewide. So, that was very responsive.

20           And there was a discussion of the indirect emissions  
21 resulting from the power plant -- or the electricity to power  
22 the data center. And aligning with the state's Renewable  
23 Portfolio Standard and Silicon Valley Power's green energy  
24 mix and further improvements in the future, I think we would  
25 still like to work further with CEC staff on the question of

1 diesel generators. You know, we are concerned about fossil  
2 diesel use. It's a policy objective of ours to eliminate  
3 diesel fossil use. And so, that's something we would like to  
4 continue to work with the CEC on and how our respective  
5 agencies can move towards eliminating fossil diesel over the  
6 long term.

7 MR. BABULA: So, do you agree that CEC staff's  
8 conclusion that the project's indirect GHG commissions would  
9 be consistent with long-term GHG reduction goals based on the  
10 decreasing GHG associated with SVP's grid power?

11 MR. HILKEN: Yes.

12 MR. BABULA: And then, finally, for permitting do you  
13 agree with CEC staff that air quality impacts -- emergency  
14 generator operation during emergencies are typically not  
15 evaluated during facility permitting by the District?

16 MR. HILKEN: Could you repeat that?

17 MR. BABULA: Yes, sure. So, for permitting, do you  
18 agree with CEC staff that air quality impacts of emergency  
19 generator operation during emergencies, so the emergency  
20 operations of the backup generators are typically not  
21 evaluated during facility permitting by the Air District?

22 MR. HILKEN: I believe our permitting mainly looks at  
23 the maintenance and testing emissions, only. But I would  
24 also invite my colleague from our Engineering Division to  
25 respond to how our permit engineers do that evaluation.

1 MR. BABULA: Okay, thank you. I have no further  
2 questions for this witness. And I could -- Hearing Officer  
3 Cochran, do you want this witness available for questions by  
4 the other parties or should I go on to the other direct  
5 witnesses I have.

6 HEARING OFFICER COCHRAN: What I thought is that we  
7 would complete all of the direct information and then allow  
8 cross-examination. So, go ahead with your next witness for  
9 direct.

10 MR. BABULA: Okay, thank you. This is Dr. Tao Jiang,  
11 who will do an opening statement summarizing the testimony  
12 and responding to some of the issues brought up by the  
13 intervenors.

14 Go ahead, Dr. Jiang.

15 DR. JIANG: Hello, my name is Dr. Tao Jiang. So, can  
16 you hear me well?

17 MR. BABULA: Yes, we can, thanks.

18 HEARING OFFICER COCHRAN: Yes.

19 DR. JIANG: Okay. My name is Dr. Tao Jiang and my  
20 areas of expertise include air quality, chemical and  
21 engineering. I prepared the commentary on the Greenhouse Gas  
22 Emission sections of the initial study, responses to Bay Area  
23 AQMD comments, and the responses to the Committee questions  
24 which represent my written testimony. My declaration and the  
25 qualifications were previously filed in this proceeding.

1           In my written testimony covering Air Quality and the  
2 Greenhouse Gas Emissions that was in the initial study,  
3 responses to Bay Area AQMD comments, and the responses to the  
4 Committee questions, I concluded of my independent analysis  
5 that the project would not have any significant impacts in  
6 the area of Air Quality and the Greenhouse Gas Emissions.

7           Consistent with CEQA, my analysis of Air Quality and  
8 the Greenhouse Gas Emissions in the initial study, responses  
9 to Bay Area AQMD comments, and the responses to the Committee  
10 questions includes determining project impacts and assessing  
11 whether the impacts are significant.

12           My written testimony in the initial study, which is  
13 number 200, at page 5.3-1 to 5.3-7, 5.3-10 to 5.3-22, 5.3-31  
14 to 5.3-39, 5.8-1 to 5.8-16 support the analysis in detail.

15           I want to highlight the following key points from the  
16 initial study. The emissions during the demolition and  
17 construction, and extent by generator readiness testing and  
18 maintenance are all below the thresholds of significance from  
19 the Bay Area AQMD CEQA guidelines. The project would also  
20 not to be expected to result in a cumulative and considerable  
21 increase of criteria pollutants during the  
22 demolition/construction, and the readiness testing and  
23 maintenance. These impacts would be less than significant.

24           The indirect GHG emissions are estimated at 109,164  
25 metric tons CO2 equivalent per year. Since the majority of

1 these indirect emissions comes from the electricity  
2 generation provided by SVP, increasing the percentage of  
3 carbon-free power procured by SVP will be the most impactful  
4 GHG reduction measure.

5 SVP's GHG emissions are trending down due to its low  
6 and decreasing carbon intensity for emissions factor and  
7 comprised with renewable and low carbon energy requirements.  
8 Because staff determined that the project would not cause  
9 significant impacts, mitigation beyond SVP's GHG reduction  
10 efforts is not required.

11 I also reviewed the filings of Mr. Sarvey and would  
12 like to address a few points he raised. In Exhibit 500, page  
13 1, Mr. Sarvey asserts that the project is not eligible to use  
14 the Santa Clara Climate Action Plan to determine significance  
15 of project GHG emission found in the CEQA because the plan  
16 only goes to 2020. And even if the project would use the  
17 CAP, its emissions levels are not consistent with the CAP.

18 The City of Santa Clara CAP, adopted in 2013,  
19 provides a comprehensive emissions reduction strategy that  
20 will allow the City to achieve its fair share of statewide  
21 emissions reductions through 2020, consistent with AB 32.

22 The consistency with CAP framework is relevant  
23 consideration in the analysis of significance of the  
24 project's GHG impacts because many of the policies are  
25 expected to be carried forward by the City to address the



1 post-2020 emission in its next CAP update.

2 GHG impacts from all project emissions also would be  
3 considered less than significant if a project is consistent  
4 not only with the City Climate Action Plan, but also  
5 applicable regulatory programs, and the policies adopted by  
6 the California Air Resource Board, AB 32, SB 350, SB 100 and  
7 the executive orders. All of these various law and policies  
8 drive a reduction in GHG emissions and the increases in the  
9 use of renewable electricity.

10 Since the RPS increase to 60 percent by 2030, defined  
11 by SB 100, the carbon intensity of California's electricity  
12 supply and the GHG emissions generated to serve the project's  
13 electricity demand will continue to drop.

14 On page 2 of Exhibit 500, Mr. Sarvey claims that the  
15 GHG emissions from the project erase all the emission  
16 reduction gains made under the CAP. This is not the case.

17 Mr. Sarvey simplistically assumed that the SVP GHG  
18 footprint is fixed for all future years. We know that this  
19 will not be the case as they are already making significant  
20 progress toward their GHG goals. With more and more  
21 renewables entering the market, GHG emissions from the SVP  
22 grid will reduce and the project's GHG emissions will also  
23 reduce accordingly.

24 And on page 3 of Exhibit 500, Mr. Sarvey claims that  
25 the project is not consistent with the Diesel-Free by '33

1 initiative. The City of Santa Clara adopted a resolution to  
2 their 189-003 on August 9, 2018, endorsing the Bay Area  
3 AQMD's Diesel-Free by '33 Statement of Progress. This  
4 Statement of Progress does not create a legally binding  
5 obligation on the signatories. Bay Area AQMD leaves it to  
6 the signatories to develop their individual strategies to  
7 meet the goal of zero emissions from use of a petroleum  
8 derived diesel fuel within their communities. I'm not aware  
9 of any regulations implemented at this time by the City to  
10 implement the Statement of Purpose.

11 If any such regulations are applying to existing data  
12 centers in the future, the facility would have to comply and  
13 deploy the complying technology.

14 On page 4 of Exhibit 500, Mr. Sarvey contends that in  
15 calculating the amount of GHG resulting from the project  
16 staff either used an older power content label or used the  
17 residential power mix product from the power content label,  
18 and not the known residential product mix.

19 The analysis I used to determine the GHG emissions  
20 related to the use of grid electricity was not based on the  
21 2017 SVP overall power mix, nor the 2018 power label. To  
22 calculate the emissions set forth in Table 5.8-4 of the  
23 initial study, I multiplied the carbon intensity value by the  
24 maximum annual energy used at the facility to estimate the  
25 project's maximum expected GHG emissions.

1           This carbon intensity value was obtained from SVP.  
2 As indicated by SVP, the carbon intensity is derived from the  
3 Cal-ISO's carbon number, including the heat rate, and the  
4 emissions record of all power plants dispatched into the grid  
5 in a given hour.

6           So, the PCL, as referred by Mr. Sarvey is not  
7 designed to capture the actual GHG impact of a load serving  
8 entity's demand portfolio in correlation with the  
9 (indiscernible) resources and the market dispatch. And the  
10 PCL does not account for cost and concession GHG impacts to  
11 the electric grid, nor does it account for the hourly GHG  
12 impacts of resources dispatched. So, the PCL is not an  
13 accurate measure of validating GHG compliance with the  
14 state's target.

15           In Exhibit 500, page 8 to 11, Mr. Sarvey argues  
16 staff's analysis is inadequate because air quality impacts  
17 from emergency operations of the standby generators has not  
18 been analyzed. This broad statement is misleading. The  
19 initial study goes into great detail, on page 5.3-31 to 39,  
20 on why attempting to model emissions is speculative and why  
21 federal, state, and local air quality guidelines and rules,  
22 including those from Bay Area AQMD does not require emissions  
23 analysis for emergency operations of standby generators.

24           CEC staff in the Laurelwood Data Center case  
25 performed some limited modeling of air quality impacts of the

1 project in two emergency operation mode scenarios. Mr.  
2 Sarvey infers that by not performing similar model, the Walsh  
3 analysis is incomplete. The logic is incorrect because the  
4 modeling performed in Laurelwood was not required.

5 Bay Area AQMD attempted to evaluate emergency  
6 operations of Santa Clara Data Center. However, since Santa  
7 Clara Data Center was reviewed, the USEPA provided guidance  
8 on the issue of emissions from backup generators, emphasizing  
9 that there is sufficient discretion within the existing  
10 guidelines for reviewing authorities to not include  
11 intermittent emissions from emergency generators in  
12 compliance demonstrations.

13 The Bay Area AQMD also does not currently model  
14 emissions from equipment during emergencies.

15 In preparation for my AQ analysis, and to ensure  
16 environmental documents that provide comprehensive, yet clear  
17 information, I, along with others working on the team,  
18 including Dr. Chu, Dr. Qian, and Mr. Birdsall in consultation  
19 with other air districts revisited the Laurelwood modeling  
20 and whether going forward with such extended analysis is  
21 appropriate and should be included in the Walsh analysis.

22 Given the probabilistic nature of the emergency event  
23 and the layers of assumptions, I concurred with my colleagues  
24 that such an analysis was not required, not helpful, subject  
25 to misinterpretation, and the results are speculative.

1           Staff's approach in this analysis is consistent with  
2 the approach used by California's local air district on  
3 emergency use on equipment. Emergency operations would be  
4 infrequent, uncontrolled, unpredictable, and therefor  
5 unplanned circumstances beyond the control of the project  
6 owner. CEQA provides that lead agency may find that  
7 environmental impacts is too speculative for evaluation. And  
8 CEQA requires that we look at reasonably foreseeable impacts.  
9 Accordingly, I and my colleagues concluded that the modeling  
10 of the air quality impacts during emergency operations is not  
11 warranted.

12           In Exhibit 500, page 13, Mr. Sarvey states that the  
13 initial study fails to perform a cumulative air quality  
14 impact analysis. The initial study sets forth, at page 5.3-  
15 16 to 5.3-22, a discussion of cumulative impacts to air  
16 quality, which is Air Quality checklist Item B. And  
17 describes the project's emissions and concludes that the  
18 project would not result in cumulatively considerable net  
19 increase of any criteria pollutant.

20           The initial study, Table 5.3-4, presents the Bay Area  
21 AQMD's thresholds of significance for criteria air pollutants  
22 and GHG emissions in units of pounds per day, averaged over a  
23 month, and pounds per year.

24           This represents the levels at which the Bay Area AQMD  
25 has determined that a project's emissions of criteria air

1 pollutants or precursors would result in accumulatively  
2 considerable contribution to the San Francisco Bay Area Air  
3 Basin's existing air quality conditions. If they daily  
4 average or annual emissions of operational related criteria  
5 air pollutants or precursors would exceed any applicable  
6 thresholds of significance listed in the Table 5.3-4, the  
7 project would result in a cumulatively significant impact.

8           However, as shown in Table 5.3-6, the project would  
9 not exceed any applicable Bay Area AQMD's thresholds of  
10 significance. Therefore, staff concludes that the project  
11 would not result in a cumulatively significant impact.

12           And with this, concludes my opening statement.

13           MR. BABULA: Thank you. Let's move on to a shorter  
14 opening statement. Dr. Ann Chu, can you go ahead and present  
15 yours. Thank you.

16           DR. CHU: Hi. Can you hear me good?

17           MR. BABULA: Yes.

18           HEARING OFFICER COCHRAN: Yes, thank you.

19           DR. CHU: My name is Dr. Huei-An, Ann, Chu. My areas  
20 of expertise include Human Health Risk Assessment,  
21 Biostatistics, and Environmental Epidemiology. I prepared  
22 the Public Health Analysis within the Air Quality section of  
23 the initial study, and responses to the Committee questions,  
24 which represents my written testimony. My declaration and  
25 qualifications were previously filed in this proceeding.

1           In my written testimony covering public health  
2 impacts from toxic air contaminant (indiscernible) in the  
3 initial study and responses to the Committee questions, we  
4 concluded after independent analysis that the project would  
5 not have any significant impacts in the area of Air Quality  
6 and Public Health.

7           Consistent with CEQA, my analysis of toxic air  
8 contaminants in the initial study includes determining  
9 project's impacts and assessing if the impacts are  
10 significant.

11           My written testimony in the initial study from pages  
12 5.3-8 to 5.3-10 and page 5.3-28 to 5.3-31 sets forth this  
13 analysis in detail. I reviewed Applicant Health Risk  
14 Assessment for project construction and project readiness  
15 testing and maintenances. The Health Risk Assessment  
16 measures the incremental risk from the project's air  
17 emissions, including three key area of health effects;  
18 cancer, chronic lung cancer, and acute non-cancer health  
19 effects. In this project there is no assessment for acute  
20 non-cancer because there is no acute reference exposure level  
21 for diesel particulate matter. And diesel particulate matter  
22 is the only toxic air contaminants we evaluated.

23           The Health Risk Assessment was based on a very  
24 conservative assumptions to over-estimate the risk due to the  
25 (indiscernible) and the variability of the Health Risk

1 Assessment. The (indiscernible) of these conservative  
2 assumptions include, first, the duration of construction was  
3 assumed to be two years. Even so, the real construction  
4 period is expected to be 21 months.

5 Second, for readiness testing and maintenance it was  
6 assumed that the generator testing would reach the 50-hour  
7 maximum every year per engine. Even so, the Applicant has  
8 indicated testing would be less than 50 hours per year.

9 Third, the analysis assumed the generators are tested  
10 at full power, 100 percent load scenario. While as indicated  
11 in the initial study, at page 5.3-21 most of the testing time  
12 would be between 2 percent and 30 percent of full load.

13 Fourth, for the potential exposure it was assumed a  
14 30-year exposure duration, starting with exposure during the  
15 third trimester of pregnancy.

16 Five, for offsite worker exposure it was assumed a  
17 25-year exposure from age 16 to 40.

18 Besides these conservative assumptions looked into  
19 the health risk assessment, the impacts for both the project  
20 construction and project readiness testing and maintenance  
21 will be less than significant.

22 Staff has an a errata to the initial study. In the  
23 standby generator emergency operation health risk assessment,  
24 HRA section, on page 5.3-39. The second paragraph shall be  
25 struck out for the following reason. As mentioned



1 previously, since there is no acute reference exposure label  
2 for diesel particulate matter, a check hazard index is not  
3 normally calculated. This is why there's no value for acute  
4 non-cancer hazard index in Table 5.3-10. See response to  
5 data request 58, in TN number 229543 for more details.

6 But this won't change staff conclusions. As  
7 mentioned previously, the health risk assessment of cancer  
8 risk and chronic non-cancer hazard index were evaluating  
9 assuming a total of 50 hours of operation per year for all  
10 three -- for all 33 generators, operating simultaneously. In  
11 the Health Risk Assessment results are all below the  
12 significance threshold.

13 The section on page 5.3-39 will read as follows:  
14 Standby generator emergency operation health risk assessment,  
15 HRA. This assessment also addresses the health impacts of  
16 toxic air contaminants emitted as a result of emergency  
17 operations. As described above, the health risk assessment  
18 of cancer risk, and chronic non-cancer risk were evaluated  
19 assuming a total of 50 hours of operation per year for all 33  
20 generators operating simultaneous.

21 The chronic health risk determined for project  
22 construction, and readiness testing, and maintenance shown in  
23 Table 5.3-10 are substantially below the significant  
24 threshold. And no reasonable emergency operation scenario  
25 would change the finding, therefore, the project would also

1 have less than significant chronic health risk.

2 My detailed responses to the Committees' questions is  
3 from page 1 to 9, Public Health 1 and Public Health 2 of the  
4 staff's responses, in Exhibit 203.

5 CEC staff normally doesn't conduct cumulative health  
6 risk assessment, but focuses on incremental risk only,  
7 especially for cancer. The reasons are the following:  
8 First, staff relies on regulations, such as Proposition 65,  
9 California Code of Regulations, Title 22, Air Toxic Hot  
10 Spots, AB 2588, and BAQ CEQA for guidance in establishing  
11 significant threshold for incremental risk.

12 Staff's approach and thresholds are consistent with  
13 these regulations and programs.

14 Second, according to OHHEA, they say the incremental  
15 risk posed by a given exposure to a carcinogen does not  
16 depend on the individual's background exposure to that or any  
17 other carcinogen. Therefore, if the incremental risk is  
18 below the significance threshold, it is not necessary to take  
19 background exposure into account.

20 Third, this is important to note that the background  
21 lifetime cancer risk is already high. Therefore, it's not  
22 useful or informative to the cumulative health risk  
23 assessment and attempt to separate out the contribution of  
24 other sources.

25 Staff's health assessment in the initial study seeks

1 to comply with OHHEA's guidance the BAQ CEQA guidance based  
2 on our usual practice. But because BAAQMD suggested more  
3 analysis, we accommodated their recommendation and conducted  
4 a cumulative health risk assessment.

5 I and my colleague, Dr. Wenjun Qian, conducted the  
6 cumulative health risk assessment based on BAAQMD's comments.  
7 The result of cumulative health risk assessment, which again  
8 used the (indiscernible) assumptions I just stated, show that  
9 the cumulative risks are below BAAQMD's threshold of  
10 significance for cancer and chronic non-cancer risk.

11 The cumulative PM 2.5 impacts are over the threshold,  
12 but Walsh contribution is essentially zero.

13 I want to focus your attention on Table 3, on page 8,  
14 of Exhibit 203. If you look at the total cumulative sources  
15 row, you will see two variables, 1.12 and 1.37. There is the  
16 .8 microgram per cubic meter significance threshold. Where  
17 there are exceedance, we can see the background concentration  
18 has already exceeded the threshold. And the concentration of  
19 Walsh project to the total risk is minimal. The modeled  
20 numbers show that with total risk of 1.12 and 1.37, Walsh  
21 only added .00006 micrograms per cubic meter in each  
22 receptor. .00006 micrograms per cubic meter in most cases is  
23 not physically measurable.

24 Since the project contribution is essentially zero,  
25 staff concluded that the project won't result in a cumulative

1 considerable contribution. Therefore, the project does not  
2 cause cumulative considerable impacts.

3 Staff's supplemental analysis also shows that the  
4 standard approach used to perform a health risk assessment in  
5 the initial study is adequate and a cumulative analysis does  
6 not change our results and conclusions.

7 Mr. Sarvey reiterates the BBAQMD's comments,  
8 suggesting a supplemental cumulative health risk assessment  
9 that is spread out to include portion of the San Jose  
10 Airport. Our supplemental health risk assessment is include  
11 in the response to Committee's questions and addresses the  
12 issues raised by the BAAQMD and Mr. Sarvey.

13 This concludes my opening statement.

14 MR. BABULA: Thank you, Dr. Chu. I have nothing  
15 further for these two witnesses and they're available for  
16 questions from other parties. Thank you.

17 HEARING OFFICER COCHRAN: Okay, thank you.

18 Mr. Sarvey, did you have anything on direct from  
19 yourself?

20 MR. SARVEY: Yeah, a little bit of direct. It's more  
21 rebuttal than direct though, so I don't know if you want to  
22 take it now or later.

23 HEARING OFFICER COCHRAN: Okay, so let's do that  
24 later.

25 Commissioner Douglas, do you think it's time to maybe

1 take a brief 5- to 10-minute break so people can get up and  
2 stretch? We've been going for about two hours, now.

3 PRESIDING MEMBER DOUGLAS: Yes, I think that's a good  
4 idea. Now, let me just look, what time is it? It's 12:19.

5 HEARING OFFICER COCHRAN: Yeah. Do you want to take  
6 --

7 PRESIDING MEMBER DOUGLAS: Can we make it 15 to 20  
8 minutes.

9 HEARING OFFICER COCHRAN: Okay.

10 PRESIDING MEMBER DOUGLAS: We're in our homes for the  
11 most part, right, so if anyone needs to grab a bit to eat or  
12 something, it should be pretty convenient and quick to do so.

13 HEARING OFFICER COCHRAN: Okay. Why don't we then  
14 recess for 15 minutes. Everyone be back by 20 to 1:00. And  
15 at that time we'll venture into cross-examination and  
16 rebuttal.

17 (Off the record at 12:20 p.m.)

18 (On the record at 12:41 p.m.)

19 HEARING OFFICER COCHRAN: So, we have just, I  
20 believe, finished the direct and opening on the topic of Air  
21 Quality, Public Health, and Greenhouse Gases.

22 Before we move to the questions that the parties  
23 have, I believe that Commissioner Monahan has some questions  
24 on this topic. Commissioner Monahan?

25 ASSOCIATE MEMBER MONAHAN: Yes, I think this may be a

1 question for Ann Chu. And this relates to the particles, the  
2 fine particle analysis that you were doing. If I can only  
3 open up my -- there we go.

4           So, I was curious about the share of fine particles  
5 that were assumed in the diesel PM value. And I wonder if  
6 you could -- and this also could -- it could be that this is  
7 more of a question for the Bay Area. But you had written or  
8 staff had written that the permit evaluation staff from the  
9 Bay Area Air Quality Management District informed CEC staff  
10 that similar facilities have been tested which show that PM  
11 2.5 is 30 percent of total particulate matter. And that  
12 struck me as just very low, actually, because especially with  
13 the filter -- well, the filter should trap out the large  
14 particles and it should leave the small particles.

15           So, can you tell me more about this assumption?

16           DR. CHU: This is Ann Chu. So, the 30 percent you  
17 mentioned comes from the response to Committee's questions?

18           ASSOCIATE MEMBER MONAHAN: Uh-hum.

19           DR. CHU: Oh.

20           ASSOCIATE MEMBER MONAHAN: But it came from -- can  
21 you tell -- I mean it came from the permit evaluation staff,  
22 right?

23           DR. CHU: I'm not quite familiar with the permitting  
24 part. But if this -- if you are talking about --

25           ASSOCIATE MEMBER MONAHAN: Yeah, if you need the

1 specific, I have the staff responses to Committee questions,  
2 and it's on page 8. So, it's related to Table 3, the PM 2.5  
3 impacts to cumulative forces.

4 DR. CHU: Uh-hum, right. We got this information  
5 from the District because the original number is quite high.  
6 It's what, it's like 21, around 21. And we reached the  
7 BAAQMD and they say there's a facility called Mission Trail  
8 Waste Systems and they give us the -- they look up the  
9 information of this facility and say the most of the emission  
10 from this facility actually is the total particulate matter.  
11 And they suggest not to use 30 percent for PM 2.5. So, we  
12 got this information from BAAQMD.

13 ASSOCIATE MEMBER MONAHAN: And this may be a harder  
14 question for you to respond to. But let's say the total  
15 particulate matter was actually closer to the actual amount  
16 of the -- of PM 2.5, so that the PPM and PM 2.5 were fairly  
17 close, say, I don't know, 90 percent or even 100 percent.  
18 Would that change your evaluation of the maximally exposed  
19 individual worker analysis significantly?

20 DR. CHU: I think this is hard to say. The result,  
21 the total cumulative health risk assessment will still like  
22 -- will still above the threshold. But you can see from  
23 Table 3, it's the background risk. So, even we change the  
24 ratio, it's actually proved the existing background risk is  
25 very high. But the contribution of this project is quite

1 minimum.

2 ASSOCIATE MEMBER MONAHAN: Well, I'm looking -- I see  
3 what you're saying when it comes to the -- in the ISR and the  
4 MEIR. It's the MEIW where I'm curious.

5 DR. CHU: Oh, I mean I thought you --

6 ASSOCIATE MEMBER MONAHAN: Uh-hum. Because the  
7 numbers from Walsh and McLaren are nontrivial compared to the  
8 highway, the surrounding numbers. And if you were to assume  
9 that most of the diesel particulate matter was actually fine,  
10 would that significantly increase the Walsh, Sequoia and  
11 McLaren project contributions to the PP 2.5 for MEIW  
12 calculations?

13 DR. CHU: Back to your questions to MEIW. These  
14 three points each are quite far from each other.

15 ASSOCIATE MEMBER MONAHAN: Uh-hum.

16 DR. CHU: So, this facility according to my memory is  
17 not close to MEIW. This facility, the Mission Trail Waste  
18 Systems is not close to the MEIW. That's why the existing  
19 station resources for MEIW is low.

20 ASSOCIATE MEMBER MONAHAN: Yeah, I have the table in  
21 front of me and it said the total for cumulative sources was  
22 .73 and the significance threshold is .8. And the  
23 contribution from Walsh, Sequoia and McLaren are about --  
24 well, are .11 of the .73 from cumulative sources. So, maybe  
25 that's 15 percent. And if you assumed the higher level of



1 2.5 from the total particulate matter, is that just a ratio?  
2 So, if we instead of .3 it was closer to 100 percent, or 90  
3 percent we would just multiple the Walsh project annual  
4 diesel particulate matter by 3?

5 DR. QIAN: This is Wenjun Qian.

6 ASSOCIATE MEMBER MONAHAN: Or is it a more  
7 complicated calculation?

8 DR. QIAN: This is Wenjun Qian. I think we need to  
9 clarify that for the data center projects we assume all the  
10 particulate matters are 100 percent PPM. So, we didn't use  
11 the 30 percent for the data center projects. Is that your  
12 question?

13 ASSOCIATE MEMBER MONAHAN: Oh, okay, that's not what  
14 it says in the footnote. But maybe I'm misinterpreting the  
15 footnote.

16 DR. CHU: Oh, this footnote is especially for one new  
17 sources, not the --

18 ASSOCIATE MEMBER MONAHAN: I see, so it's only for  
19 existing stationary sources. It's not for the Walsh project  
20 stationary sources.

21 DR. CHU: No, it's the stationary resources around  
22 the project.

23 ASSOCIATE MEMBER MONAHAN: Ah, that makes more sense.  
24 Okay.

25 DR. CHU: Yeah, they may be like the (indiscernible)

1 or like the laundry shop, or the waste systems.

2 ASSOCIATE MEMBER MONAHAN: Ah, that makes more sense.

3 Okay, thank you so much. That clarifies my question.

4 DR. CHU: Okay.

5 HEARING OFFICER COCHRAN: Did you have any other  
6 questions, Commissioner Monahan?

7 ASSOCIATE MEMBER MONAHAN: Just my one last one is  
8 the fact that the analysis went to 1,000 feet and the  
9 cumulative impacts assessment was only, you know, with that  
10 boundary. And I'm curious, is there some data around this  
11 1,000-foot boundary that you're relying on to interact with  
12 the Bay Area Air Quality Management District does? Is that  
13 like a standard across the country or is that a district-by-  
14 district based set boundary?

15 HEARING OFFICER COCHRAN: Mr. Hilken, are you still  
16 on the line? That might be a question that you could answer.

17 MR. HILKEN: Yes, I'm on the line. So, I wouldn't --  
18 so, that 1,000-foot radius comes from our CEQA guidelines.  
19 We, for many years, have had a guidance document to assist  
20 local lead agencies, in this case the CEC. It's usually  
21 cities and counties. But it's a guidance document to help  
22 CEQA lead agencies conduct environmental reviews.

23 And so, for this particular impact for localized risk  
24 and hazards, we recommend that a cumulative analysis look at  
25 all sources within the 1,000-foot radiance of the source.

1 And the reason is that it's not exactly background. Earlier,  
2 a speaker referred to background and it's not exactly  
3 background. What it is, because background would be  
4 emissions from sources all over the Bay Area. But, really,  
5 the intent of this guidance is to look at what's happening  
6 locally, within 1,000 feet of a project what are the  
7 localized sources that altogether, collectively, cumulatively  
8 result in a localized exposure.

9 So, I don't know if that's standardized across the  
10 country. I can't speak to that. It certainly, it has been  
11 our guidance for at least ten years now as a way of  
12 estimating cumulative impacts from -- in a CEQA document.

13 ASSOCIATE MEMBER MONAHAN: Thank you. And that's all  
14 my questions.

15 HEARING OFFICER COCHRAN: Thank you, Commissioner  
16 Monahan.

17 Liza, could you pull up Exhibit 25 for me, please?  
18 Before I get to the parties I have some -- I have a question  
19 or two.

20 MR. BABULA: Hearing Officer Cochran, this is Jared  
21 Babula. Would you -- because Dr. Wenjun Qian jumped in  
22 there, would you like, just so the record has like  
23 introduction of her name and what she worked on? Would that  
24 be something you would want to have or --

25 HEARING OFFICER COCHRAN: Is that already contained

1 in her declaration attached to your opening testimony?

2 MR. BABULA: Yes, she had provided a declaration and  
3 resumes in our submittals.

4 HEARING OFFICER COCHRAN: Okay. That, then we can  
5 rely on that, thank you.

6 MR. BABULA: Okay, thanks.

7 HEARING OFFICER COCHRAN: The only thing I wanted --  
8 I wanted that information for those folks who had not yet  
9 submitted any kind of, you know, title, qualifications, et  
10 cetera.

11 MS. LOPEZ: This is Liza. What number did you want  
12 me to pull up?

13 HEARING OFFICER COCHRAN: Exhibit 25.

14 MS. LOPEZ: 25.

15 HEARING OFFICER COCHRAN: That should be the 2017  
16 BAAQMD CEQA guidelines. And now, I would like you to look  
17 for Section 2.1. It's pretty late in the document, but I  
18 would go down to probably page 150 at least in the PDF. And,  
19 of course, I'm blind. I have to get close to my screen to  
20 see how close you are.

21 I need from appendix -- Liza stop. Scroll back up.  
22 Scroll back up. I need Table D-1. Table D-1. And that's in  
23 Appendix D to this document. So, yeah, keep going.

24 MS. LOPEZ: I don't see --

25 HEARING OFFICER COCHRAN: Keep going. Stop.

1 MR. DARVIN: So, this is Greg Darwin. It should be  
2 on page D-1. She's there.

3 HEARING OFFICER COCHRAN: C-31?

4 MR. DARVIN: D as in dog, 31.

5 HEARING OFFICER COCHRAN: So, if you look at the  
6 bottom pages, Liza, the pages at the very bottom. Go back,  
7 back, back, back. Back, back, back. And just a little bit  
8 more. Stop. That table right there.

9 So, this is for anyone who can help me through this.  
10 So, it's my understanding that in studying and reviewing the  
11 emissions from the Walsh Data Center Project, and you'll  
12 remember that the project is the whole of the action. So,  
13 the data center, the backup generators, et cetera. That we  
14 had identified several different types of emissions.

15 But in comparing those emissions these were  
16 thresholds of significance that we used. Am I correct about  
17 that?

18 MR. BABULA: This is Jared Babula, staff counsel.  
19 I'll throw that to staff since they're the ones testifying.  
20 Dr. Jiang, can you respond?

21 DR. JIANG: Yes. This is the threshold we are using  
22 in the analysis. And in particular it's stationary sources,  
23 10,000 metric tons of CO2 equivalent per year.

24 HEARING OFFICER COCHRAN: Okay. So, then on Table  
25 5.8-4 of Exhibit 200 it details the greenhouse gas emissions

1 from energy use, mobile sources, area sources, water use, and  
2 waste generation during project operation. Are you familiar  
3 with that table?

4 DR. JIANG: Yes.

5 HEARING OFFICER COCHRAN: And that shows that energy  
6 use has 108,396 metric tons of CO2 equivalent per year.

7 DR. JIANG: Yes.

8 HEARING OFFICER COCHRAN: Okay. So, if we look at  
9 the threshold identified in the BAAQMD CEQA document and we  
10 look at the different classes of emissions listed in 5.8-4,  
11 which of the significance thresholds in table -- in this  
12 table, in Section 2.1 of the thresholds apply to which of the  
13 identified emission limits identified in the initial study,  
14 Preliminary Mitigated Neg Dec? For each source, which  
15 threshold of significance applies?

16 DR. JIANG: Yes, so in this table we are using the  
17 10,000 metric tons CO2 equivalent per year. We compared the  
18 direct GHG emissions to this thresholds. By direct emissions  
19 --

20 HEARING OFFICER COCHRAN: And what about the  
21 indirect?

22 DR. JIANG: Indirect emissions and we know it's from  
23 the greenhouse gas emissions by the SVP power grid, by the  
24 electricity use. And for this part, we compare it with the  
25 eligible state and local greenhouse gas reduction strategies.

1 So, as long as they used the qualified greenhouse gas  
2 reduction strategies and we determine it's in compliance.

3 HEARING OFFICER COCHRAN: Okay.

4 DR. JIANG: And we're not compare the indirect GHG  
5 emissions with this threshold.

6 HEARING OFFICER COCHRAN: Why not?

7 DR. JIANG: It's not -- here is stationary sources  
8 and it means the direct emissions. That's staff's  
9 understanding. And I believe maybe the representative from  
10 Bay Area District can also give more details.

11 HEARING OFFICER COCHRAN: Okay.

12 MR. GALATI: Ms. Cochran, this is Scott Galati. I  
13 have a witness that can answer your question.

14 HEARING OFFICER COCHRAN: Okay.

15 MR. GALATI: Mr. Lisenbee, are you still on the line?

16 MR. LISENBEE: Yes, I'm on the line.

17 MR. GALATI: Okay. So, the question has to do with  
18 the threshold that is identified for nonstationary sources in  
19 the Bay Area guidance. Can you explain why we didn't use  
20 that?

21 MR. LISENBEE: Right. So, the threshold on the  
22 screen right now, 1,100 metric tons of CO2 equivalent per  
23 year, or 4.6 metric tons of CO2 equivalent per service  
24 population per year, that was developed by BAAQMD in relation  
25 to the state's 2020 greenhouse gas emissions target. So,

1 that threshold is specific to emissions up to the year 2020.  
2 So, for a project like this project that won't become  
3 operational until after the year 2020, this threshold is no  
4 longer applicable.

5 HEARING OFFICER COCHRAN: Where is that deadline of  
6 2020?

7 MR. LISENBEE: So, elsewhere in these CEQA guidelines  
8 there is discussion about how these thresholds were  
9 developed. And the 1,100 metric tons and 4.6 metric tons  
10 were developed in the context of meeting AB 32's 2020 GHG  
11 emission goals statewide.

12 HEARING OFFICER COCHRAN: Okay.

13 MR. GALATI: Ms. Cochran, may I ask a follow-up  
14 question that might provide a little more guidance?

15 HEARING OFFICER COCHRAN: Sure.

16 MR. GALATI: Mr. Lisenbee, is it your opinion that if  
17 we had followed the treatment of indirect electricity  
18 emissions according to the methodology here, we would vastly  
19 have underestimated those electricity emissions?

20 MR. LISENBEE: Can you rephrase that question? I'm  
21 not quite sure what you're asking.

22 MR. GALATI: If we had followed the methodology to  
23 look at the land use development source and used the  
24 modeling, compared it to other buildings, would we have come  
25 up with an underestimation of the indirect emissions from



1 electricity because this is a data center?

2 MR. LISENBEE: So, I believe what you're referring to  
3 is there's methodology outlined in these BAAQAMD guidelines  
4 recommending the use of modeling for estimating GHG  
5 emissions, including emissions from indirect sources, like  
6 electricity use. Those models, in the guidelines it refers  
7 to an older model called URMEBIS that has now been replaced  
8 by a model called CalEEMod, the California Emissions  
9 Estimator Model.

10 Those models don't have data for data center uses,  
11 which use large amounts of electricity. So, using those  
12 modeling techniques to estimate a data center's emissions  
13 would have underestimated the project's emissions because the  
14 electricity use factors of the land uses included in those  
15 models don't account for the high electricity use of data  
16 centers.

17 So, the manual calculation of data center emissions  
18 completed by staff in the ISMND is a more accurate way of  
19 estimating the project's emissions.

20 MR. GALATI: And so, how did you determine -- how did  
21 you evaluate whether or not those were significant?

22 MR. LISENBEE: Similar to what staff was saying that  
23 the indirect emissions from electricity use were discussed in  
24 the context of the utility provider, SVP's compliance with  
25 statewide goals for reducing GHG emissions from an

1 electricity provider.

2 MR. GALATI: So, there is not a significant -- there  
3 is not a numerical threshold for the indirect emissions from  
4 electricity, correct?

5 MR. LISENBEE: That's correct. The Bay Area Air  
6 Quality Management District has not released an updated  
7 threshold that addresses emissions beyond 2020. So, the  
8 emissions thresholds in this document, which discuss 2020,  
9 lists 1,100 metric tons emissions threshold can no longer be  
10 relied upon. And no updated emissions threshold has been  
11 released.

12 MR. SARVEY: Can I respond to that, please? Bob  
13 Sarvey.

14 HEARING OFFICER COCHRAN: Go ahead, Mr. Sarvey.

15 MR. SARVEY: If that's the case, then none of these  
16 thresholds are applicable to this project, so why are we  
17 using the BAAQMD regulations? It doesn't make any sense. If  
18 this all expires in 2020, none of these thresholds of  
19 significance are valid. So, I believe that argument is just  
20 full of holes.

21 MR. GALATI: I can clarify, if you'd like,  
22 Commissioner?

23 HEARING OFFICER COCHRAN: Just please go ahead.

24 MR. HILKEN: So, it is correct that the greenhouse  
25 gas thresholds are based on AB 32 2020 targets. So, this

1 table --

2 HEARING OFFICER COCHRAN: Who's speaking right now?

3 MR. HILKEN: I'm sorry, Henry Hilken from the Air  
4 District.

5 HEARING OFFICER COCHRAN: Please go ahead, Mr.  
6 Hilken.

7 MR. HILKEN: So, it is the case that these thresholds  
8 we're looking at right now in Table 2.1, the greenhouse gas  
9 thresholds, are indeed, it is correct that those are based on  
10 AB 32 goals for 2020, which are obviously outdated now. And  
11 as the prior speaker indicated we are -- the District is in  
12 the process of updating those thresholds to help -- to  
13 provide that guidance for how lead agencies should evaluate  
14 these sorts of impacts in the future.

15 And this is, indeed, one of the points in our comment  
16 letter was it is not adequate to just use these 2020  
17 thresholds. In our comment letter we recommended a longer  
18 range -- an evaluation based on longer-term compliance with  
19 statewide goals and regulatory programs. And that's the text  
20 that CEC staff -- a more qualitative approach that staff  
21 included in the final report.

22 However, all of the other thresholds, for instance  
23 the other air pollution thresholds are still very much in  
24 effect. The just regular air pollution thresholds that we  
25 talked about earlier are not based on 2020 and those have not

1 been -- those are still applicable for use and we recommend  
2 their use until we have an update.

3 HEARING OFFICER COCHRAN: Okay. So --

4 MR. BABULA: Hearing Officer Cochran, this is Jared.  
5 I've got a staff person that also has some information that  
6 would be helpful in addressing your question.

7 HEARING OFFICER COCHRAN: And who's that?

8 MR. BABULA: That would be Mr. Birdsall.

9 HEARING OFFICER COCHRAN: Okay, Mr. Birdsall, you  
10 were previously sworn, correct?

11 MR. BIRDSALL: Hello, can you hear me?

12 MR. BABULA: Yes.

13 HEARING OFFICER COCHRAN: Yes. You were previously  
14 sworn, is that correct?

15 MR. BIRDSALL: That's right, yes, I have been.

16 HEARING OFFICER COCHRAN: Okay, please proceed.

17 MR. BIRDSALL: Okay. And just to clarify, you had on  
18 the screen the threshold in the chapter D -- or, rather the  
19 Appendix B of the BAAQMD guidelines. There is some  
20 interpretation or methodology explanation in those guidelines  
21 a little bit further down on some surrounding pages. And  
22 just to be concise, I will point you to page D-27, where it  
23 explains that when a lead agency is dealing with a stationary  
24 source that goes through the Air District permitting process,  
25 for the GHG emissions from electricity use, and water

1 delivery, and mobile sources would not -- would not be  
2 subject to that stationary source threshold.

3           And then, a little bit further down, on page D-29 of  
4 the same guidelines, it also -- the guidelines also explain  
5 that the AB 32 Scoping Plan measures, which have been updated  
6 and incorporated in ARB's current Scoping Plan update, these  
7 have been kept up to date to go beyond 2020 goals, including  
8 the Cap & Trade Program. Those Scoping Plan measures provide  
9 the necessary emission reductions from the stationary source  
10 specter to achieve the AB 32 2020 goals.

11           And so, I think the answer to your question, Hearing  
12 Officer, is that really the electricity component is compared  
13 to a qualified climate reduction -- or greenhouse gas  
14 emission reduction plan. And that plan is really the AB 32  
15 and then followed up by the SB 32 Scoping Plan update that  
16 includes the entire regulatory framework for reducing GHG  
17 from the electricity sector.

18           HEARING OFFICER COCHRAN: Okay. So, when I look at  
19 the chart that's here on the screen, it seems to me that the  
20 indirect emissions are not the stationary source that we're  
21 concerned about here. The stationary source for the Walsh  
22 project are the backup generators. Am I correct in that  
23 characterization?

24           MR. BIRDSALL: Yes.

25           HEARING OFFICER COCHRAN: Then what we're talking

1 about now are the indirect emissions caused by use of power  
2 by the data center, which is part of the CEQA project that  
3 the Energy Commission is reviewing. Is that correct?

4 MR. BIRDSALL: Actually, could you repeat that  
5 question? And I might -- I was just being distracted for a  
6 moment.

7 HEARING OFFICER COCHRAN: That's okay. Let me ask it  
8 a different way. If we were assuming that this chart before  
9 us, from Appendix D of the BAAQMD CEQA guidelines from 2017  
10 was not stalemated because of the passage of time, in other  
11 words because we're not past 2020, where would indirect  
12 emissions be compared in terms of what the threshold of  
13 significance is? Is it a stationary source or is it a  
14 project other than a stationary source? The indirect  
15 emissions from power use?

16 MR. BIRDSALL: I'll provide my answer, and then I  
17 will also --

18 HEARING OFFICER COCHRAN: Sure.

19 MR. BIRDSALL: -- ask Dr. Jiang, Dr. Tao Jiang to  
20 confirm because we've been working together in the topics of  
21 Air Quality and GHG over time.

22 And the indirect emissions -- first of all, to answer  
23 your first part, I believe that the thresholds here are not  
24 stale. I believe that these thresholds are relevant to our  
25 project, they remain relevant. And it is true that the Air

1 District is working to update the thresholds. However, as  
2 lead agencies use these guidelines we have really no better  
3 thresholds than these, and these are quite good, I think.

4 For the indirect emissions that you're asking about,  
5 I would categorize those as projects other than stationary  
6 sources, meaning that those emissions are compared to  
7 qualified greenhouse gas reduction strategy. So, compliance  
8 with a qualified greenhouse gas reduction strategy is our  
9 test.

10 And I would like for Dr. Tao Jiang to reaffirm that.  
11 Because I believe this is what's appearing in our initial  
12 study, but maybe not totally explicit. And then, it also  
13 appears in staffs responses to the Committee questions. So,  
14 Dr. Jiang can you help me out with that and confirm.

15 DR. JIANG: Yes. Thanks for the explanation from my  
16 colleague Mr. Birdsall. And I agree with what he said. In  
17 this case, the indirect GHG emissions we should characterize  
18 it as projects other than stationary sources because they are  
19 not directly from, thus different sources from this data  
20 center project. Therefore, we use compliance with a  
21 qualified greenhouse gas reduction strategies to determine  
22 the compliance, instead of using the threshold.

23 HEARING OFFICER COCHRAN: Okay. So, now, let's then  
24 turn our attention to qualified greenhouse gas reduction  
25 strategies. And the CEQA guidelines, at Section 15183.5

1 define for us what a qualified greenhouse gas reduction  
2 strategy is. And in the ISPMND and in the testimony today  
3 we've listed a number of documents. So, which of those  
4 satisfies the definition contained in 15183.5 of a qualified  
5 greenhouse gas reduction strategy?

6 DR. JIANG: This is Tao Jiang again. And I think the  
7 plan we referred to is the City of Santa Clara Climate Action  
8 Plan adopted in 2013.

9 HEARING OFFICER COCHRAN: That ends in 2020.

10 DR. JIANG: We have explained in the response to  
11 Committee questions and we believe the consistency with this  
12 CAP framework will be carried forward by the City to address  
13 the post-2020 emissions in its next CAP update. And we know  
14 that the district -- I mean, the City will continue to keep  
15 the consistency.

16 HEARING OFFICER COCHRAN: But at this point that  
17 document indicates that it's for projects through 2020 and  
18 this project will not be built by 2020. So, that's the  
19 qualified greenhouse gas reduction strategy or plan that  
20 you're using is the City of Santa Clara General Plan, Climate  
21 Action Plan, the CAP?

22 DR. JIANG: Yes. And also, since the majority of the  
23 GHG emissions is from the indirect use -- of the indirect  
24 emissions from the electricity use, and as explained by the  
25 representative from SVP at the beginning of this hearing, and



1 they do have their strategies to reduce the greenhouse gas  
2 emissions to up to 2050.

3 So, we also rely on the SVP's GHG reduction efforts  
4 and we don't require any other additional mitigations.

5 HEARING OFFICER COCHRAN: Okay, thank you.

6 Would anyone else want to provide any more  
7 information for me on my question?

8 MR. GALATI: Yes, Ms. Cochran, this is Scott Galati.  
9 I'd like Michael Lisenbee to provide some additional  
10 information that's also outlined in our Exhibit 24, in your  
11 responses. Mr. Lisenbee, can you describe sort of the three  
12 ways that would be stationary threshold, the role of the  
13 Climate Action Plan, and then the role of indirect emissions,  
14 and other regulatory schemes? Mr. Lisenbee?

15 MR. LISENBEE: I'm sorry, could you please repeat the  
16 question?

17 MR. GALATI: Yeah. Could you please describe the  
18 role of the stationary source threshold, the role of the  
19 Climate Action Plan, and the role of SVP's compliance with  
20 other regulatory structures for greenhouse gas emissions and  
21 how those were used to evaluate impacts?

22 MR. LISENBEE: Sure. So, this is admittedly  
23 complicated when it comes to analyzing GHG emissions, and  
24 that's probably why there's some confusion around this topic.  
25 So, we compare GHG emissions to different thresholds

1 depending on the type of emission it is. So, for stationary  
2 sources, they are considered on their own and they have their  
3 own threshold. And that's what we're looking at on the  
4 screen right now is this 10,000 metric tons of CO2 per year.  
5 And that threshold was developed by BAAQMD to capture  
6 essentially large sources of GHG emissions from stationary  
7 sources.

8           So, essentially, BAAQMD determined that any  
9 stationary source with less than 10,000 metric tons per year  
10 would be insignificant when it comes to GHG emissions. And  
11 that 10,000 metric tons per year was established to capture  
12 roughly 95 percent of GHG emissions from stationary sources  
13 in the Bay Area. So, that's one threshold and that's the  
14 threshold that's used for stationary sources, which in the  
15 case of this project is the backup generators.

16           Then we have the language about qualified greenhouse  
17 gas reduction strategy. So, the Santa Clara Climate Action  
18 Plan is a qualified greenhouse gas reduction strategy. It  
19 analyzed the City's method of reaching the 2020 state target  
20 under AB 32, and provided CEQA clearance for subsequent  
21 projects to tier from that document.

22           However, tiering from a document is a little  
23 different than being consistent with the plan. So, in the  
24 case of this project neither the SPPE application or the  
25 initial study tiered from and under CEQA, meaning that we

1 didn't rely on the conclusions of the Climate Action Plan to  
2 determine a less than significant impact based on the Climate  
3 Action plan itself finding of CEQA impact.

4           Instead, we analyzed the project's consistency with  
5 measures included in the Action Plan, or the project's  
6 consistency in general with a qualified greenhouse gas  
7 reduction strategy.

8           So, it wasn't that the project relied on the finding  
9 of a Climate Action Plan that only looked out to 2020, it was  
10 more was it consistent with this plan that's in place to  
11 reduce greenhouse gas emissions in the City of Santa Clara.

12           This is similar to the analysis of the indirect  
13 emissions from electricity uses. The emissions from  
14 electricity uses, basically the project's indirect emissions  
15 from that were discussed in the context of SVP's overall  
16 ability to meet statewide goals and targets under adopted  
17 plans and policies by the state. And the application and  
18 initial study determined that because SVP would be meeting  
19 all regulatory requirements and reducing the air emissions as  
20 they relate to state goals, then the project's indirect  
21 emissions associated with their electricity use from SVP  
22 would by definition meet those same targets and goals.

23           So, as I said it's complicated. When it comes to GHG  
24 emissions, we compare to multiple different thresholds and  
25 targets. But in general, the approach from staff and the

1 approach in our SVP application is the same approach used by  
2 the City of Santa Clara, and is adequate under CEQA and  
3 follows CEQA guidelines 15064.4. And although it does not  
4 rely on Section 15083, it's consistent -- 15183.5, sorry,  
5 that allows projects to tier from prior CEQA documents. The  
6 Climate Action Plan under Santa Clara was a qualified  
7 greenhouse gas reduction strategy under Section 15183.5 of  
8 the CEQA guidelines.

9 HEARING OFFICER COCHRAN: So, I have a question  
10 regarding the Silicon Valley Power greenhouse gas reduction  
11 strategy. Is it a qualified greenhouse gas reduction  
12 strategy under 15183.5?

13 MR. SARVEY: No.

14 HEARING OFFICER COCHRAN: Thank you, Mr. Sarvey.  
15 Does anyone else have an answer to that question?

16 MR. LISENBEE: This is Mr. Lisenbee. There is no SVP  
17 Climate Action Plan. There was a City of Santa Clara Climate  
18 Action Plan.

19 HEARING OFFICER COCHRAN: Right.

20 MR. LISENBEE: SVP, as a utility provider, has its  
21 own state regulations that it has to comply with. And the  
22 representative from SVP would be able to speak to that more  
23 than I would.

24 HEARING OFFICER COCHRAN: Mr. Kolnowski, do you know  
25 whether the greenhouse gas reduction strategy that is used by

1 SVP has, for example, been adopted in a public process  
2 following environmental review?

3 MR. KOLNOWSKI: I know we fall under the City of  
4 Santa Clara's Climate Action Plan since we are a department  
5 of the City. The Integrated Resource Plan was adopted by  
6 counsel for -- it was presented to counsel and we did a  
7 follow up after it was accepted by the Energy Commission, so  
8 they're aware of it. And I can't remember if we asked them  
9 to approve it or just to accept it.

10 HEARING OFFICER COCHRAN: Do you know whether there  
11 was any type of CEQA compliance for the SVP IRP? Did you do  
12 a negative dec? Did you do an exemption? Or, was there any  
13 kind of environmental review for the SVP IRP?

14 MR. KOLNOWSKI: I would have to check.

15 HEARING OFFICER COCHRAN: Okay.

16 MR. KOLNOWSKI: I'll try -- I don't think I can do it  
17 while I'm on the WebEx though, because of my internet  
18 connection.

19 HEARING OFFICER COCHRAN: Okay, that's fine.

20 MR. KOLNOWSKI: And I'll ask the question.

21 HEARING OFFICER COCHRAN: That would be great, thank  
22 you.

23 Another question, we've talked a lot about RPS. Does  
24 anyone have an opinion of whether that meets the requirements  
25 of 15183.5 as a greenhouse gas reduction -- a qualified

1 greenhouse gas reduction strategy?

2 MR. GALATI: This is Scott Galati. I just wanted to  
3 correct something. I think that we wanted to make sure it's  
4 very clear we're not tiering off and we're not using 15183.5.  
5 And, therefore, it doesn't have to be -- tiering off it is  
6 very different than comparing to regular regulatory programs  
7 that are there.

8 Remember, the Walsh Data Center can do one thing. It  
9 can meet and reduce its use of electricity, which we have,  
10 and that complies with all of the terms of the Santa Clara  
11 Plan. And so, it is fair to look at indirect emissions  
12 separately and we did not tier off the Santa Clara Plan or  
13 any other plan and saying that plan says we're okay, all we  
14 have to be is consistent with that plan.

15 What we did show you is that greenhouse gas emissions  
16 are reducing over time from Silicon Valley and this project  
17 does nothing to impede that.

18 HEARING OFFICER COCHRAN: Okay. So --

19 MR. SARVEY: I'd like to object to that as testimony.

20 MR. GALATI: You can ask Mr. Lisenbee, that's  
21 definitely argument and I just wanted to clarify.

22 MR. SARVEY: Well, let it come from Mr. Lisenbee,  
23 please.

24 HEARING OFFICER COCHRAN: So, I'm confused. On the  
25 one hand, under 15064.4, for purposes of the plans that we're

1 relying on, we're saying we're looking at the 2017 BAAQMD  
2 CEQA guidelines. But then, when we come to indirect you're  
3 saying that we're not looking at them. We're looking at  
4 something else. But what I'm also hearing is that there's no  
5 numerical threshold to compare the indirect emissions  
6 against. Am I understanding the testimony thus far?

7 MR. GALATI: That is exactly correct and we made it  
8 clear, and so did staff, that there is no numerical threshold  
9 for indirect emissions from electricity.

10 MR. BABULA: Yeah, this is Jared Babula from staff.  
11 That was the fundamental component that was put into the  
12 response to Committee questions was to try to clarify that  
13 for the SVP-related indirect emissions there is no numerical  
14 threshold. And so, it came down to the whole entire suite of  
15 state policies, executive orders, and laws that are pushing  
16 SVP to have a lower GHG emissions profile. And so, that's  
17 what staff relied on, and the staff has testified about.

18 The only thing where there's a numerical threshold  
19 would be for the generators themselves. And for construction  
20 there's a best practices component. And so, really, for the  
21 bulk of the emissions it's the SVP and that's why we spent a  
22 lot of time with SVP's representative to lay out what they're  
23 working on and how their achieving the objections and  
24 requirements that they're mandated to do.

25 HEARING OFFICER COCHRAN: Okay. So, as I'm looking

1 at the BAAQMD CEQA guidelines, and I'm looking specifically  
2 at Appendix D, Section 2.1 of Exhibit 25, the chart that's  
3 currently on the screen being displayed in WebEx. For  
4 projects other than stationary sources, which I've understood  
5 the testimony to be that that's what we are categorizing the  
6 indirect emissions as being. I'm being told that I can't use  
7 the numerical thresholds in that chart. So, instead, what  
8 we're then left with is the qualified greenhouse gas  
9 reduction strategy. Is that correct?

10 MR. GALATI: No, that is not correct.

11 HEARING OFFICER COCHRAN: Okay, what is correct? And  
12 I want -- instead of arguments from the attorneys, I'd like  
13 to hear from one of the expert witnesses on this.

14 MR. GALATI: Mr. Lisenbee, could you try to explain  
15 that?

16 MR. LISENBEE: Can you please repeat the question?

17 HEARING OFFICER COCHRAN: If there are minimal  
18 thresholds from Appendix D because those numerical thresholds  
19 were only through the horizon for AB 32 of 2020, does that  
20 leave only a qualified greenhouse gas reduction strategy as  
21 threshold against which to compare the indirect impact of the  
22 project based on energy usage?

23 MR. LISENBEE: Sorry, I was waiting for the  
24 background noise to go down a little bit. It's not exactly  
25 right. So, it's correct that the numeric thresholds for



1 projects other than stationary sources, as were shown on the  
2 screen, cannot be relied upon for a determination of a CEQA  
3 impact because they only address the ability to --

4 MS. LOPEZ: This is Liza, the host. Whoever is SK,  
5 can you mute yourself?

6 Susan, you can actually mute them. It's SK. Thank  
7 you.

8 (Whereupon the court reporter interrupts)

9 HEARING OFFICER COCHRAN: Yeah, Mr. Lisenbee.

10 MR. LISENBEE: This is Mr. Lisenbee, yes. All right,  
11 so the numeric thresholds shown in the table on the screen  
12 for projects other stationary sources only were designed to  
13 address emissions through the year 2020. So, relying on them  
14 would not show any compliance with the state's targets beyond  
15 2020. And since this project will be constructed after 2020  
16 it does not -- comparing to this threshold does not determine  
17 any type of significance of the project's emissions because  
18 we're already past the year that those thresholds were  
19 designed to analyze.

20 So, in terms of that text, compliance with a  
21 qualified greenhouse gas reduction strategy, that's very  
22 specific in what it means. And that means a greenhouse gas  
23 reduction strategy adopted under the CEQA guidelines 15183.5.  
24 And that is when we're talking about tiering, that's what  
25 that's referring to. So, that was what the Santa Clara's

1 Climate Action Plan was. It was designed as a tiering  
2 document so that future projects would not have to  
3 essentially do individual greenhouse gas analysis for every  
4 project. You could just show that we are consistent with the  
5 assumptions that went into this greenhouse gas reduction  
6 strategy. We're going to implement all the measures. And,  
7 therefore, the findings of this greenhouse gas reduction  
8 strategy that was adopted and had CEQA review can be  
9 conferred upon the proposed project because it is tiering  
10 from that.

11 We can no longer rely on the City's CAP for tiering.  
12 We can discuss our project's consistency with it since it's  
13 still an adopted plan, adopted to reduce greenhouse gas  
14 emissions. And if you look at the language of the CEQA  
15 guidelines, not the BAAQMD guidelines, that's the question is  
16 whether we're consistent with plans and policies adopted to  
17 reduce greenhouse gas emissions. Not whether we're  
18 consistent with a specifically-adopted greenhouse gas  
19 reduction strategy under 15183.5.

20 So, the approach this project took for the indirect  
21 emissions for projects other than the stationary sources was  
22 a discussion of every relevant plan and policy, local,  
23 regional or statewide that was adopted to reduce greenhouse  
24 gas emissions in the context of the state's overall goals in  
25 this legislation and any other relevant local and regional

1 policies.

2           So, those don't necessarily have to be qualified  
3 greenhouse gas reduction strategies under 15183.5. Those are  
4 plans and policies adopted as the language in the CEQA  
5 guideline says, that we are analyzing our consistency of the  
6 project with.

7           HEARING OFFICER COCHRAN: Okay, thank you. I think  
8 that I'm going to leave this for now. Why don't we allow the  
9 parties to go forth with their questions, starting with  
10 staff.

11           MR. BABULA: Okay, thank you. So, I don't have any  
12 -- you're talking about for cross-examination?

13           HEARING OFFICER COCHRAN: Yes.

14           MR. BABULA: Okay. I just wanted to make sure. So,  
15 I have a question for -- this is for Mr. Sarvey. So, do you  
16 agree the majority of the GHG emissions from the project are  
17 the indirect emissions associated with use of the grid  
18 electricity? Are you able to hear me, Mr. Sarvey?

19           HEARING OFFICER COCHRAN: Mr. Sarvey, are you there?

20           MR. SARVEY: Yes, I'm here.

21           HEARING OFFICER COCHRAN: Did you hear Mr. Babula's  
22 question?

23           MR. SARVEY: Do you want to repeat the question  
24 there, please?

25           MR. BABULA: Sure.

1 MR. SARVEY: Repeat the question, please?

2 MR. BABULA: Sure, no problem. Do you agree the  
3 majority of the GHG emissions from the project are the  
4 indirect emissions associated with use of grid electricity?

5 MR. SARVEY: I agree that the emissions from the  
6 project represent 14 percent of Santa Clara's current GHG  
7 emissions. And I also agree that the indirect emissions from  
8 electricity are the majority of that, yes.

9 MR. BABULA: So, would you agree, then, that the  
10 primary factor in reducing project GHG emissions is  
11 decreasing the carbon intensity of SVP's electricity supply  
12 and increasing its percent of renewables?

13 MR. SARVEY: I believe that that would be an  
14 acceptable approach, except for the fact that SVP is going to  
15 increase their megawatt hours produced. So, when you take  
16 the emission factor from the production of their increase in  
17 megawatt hours, I believe that their CO2 will be even higher  
18 than it is currently. And I have numbers for that. I'll  
19 give you those later, if you want to hear about it.

20 MR. BABULA: Well, can you point to any evidence in  
21 your filings or in the record that show SVP is not meeting  
22 its current and future GHG and RPS obligations under SB 100  
23 and SB 32?

24 MR. SARVEY: Sure. Let me go through it with you.  
25 Silicon Valley Power's Utility Fact Sheet, Exhibit 512, shows

1 that SVP sold 3,593,758 megawatt hours in 2019 with a carbon  
2 intensity by SVP of 341 pounds of GHG emissions per megawatt  
3 hour.

4 Under SVP's method of calculating GHG emissions that  
5 would produce approximately 556,000 metric tons of CO2. SVC  
6 estimates their carbon intensity for 2030 to be only 219  
7 pounds of CO2 per megawatt.

8 On Exhibit 28, page 4.5, SVP's IRP estimates that SVP  
9 will consume 5,281,000 megawatt hours. Using SVP's 2030  
10 projected carbon intensity times its projected retail sales  
11 of 5,281 megawatt hours it would produce 553,000 metric tons  
12 of CO2 per year. That's almost exactly what they're emitting  
13 now.

14 Now, if you take their high -- assuming their high  
15 load growth of 7 million megawatt hours forecasted in SVP IRB  
16 on page 4-6, the GHG emissions from SVP's retail sales would  
17 be about 20 percent higher than the 2020 GHG emissions,  
18 instead of 20 percent lower.

19 So, let's look at the facts and let's not speculate  
20 whether SVP is going to meet these carbon intensity factors.  
21 Let's look at the numbers that are in the IRP that's in the  
22 evidence in this proceeding. And the evidence in this  
23 proceeding shows there's no way they're going to make a 20  
24 percent reduction from 2020, in my view.

25 MR. BABULA: Isn't the RPS a percentage, so it's a

1 requirement based on percent, not direct, like not straight  
2 megawatts; isn't that correct?

3 MR. SARVEY: I'm talking about the carbon intensity  
4 of their particular megawatt hour times the number of  
5 megawatt hours that are produced. And if you run the  
6 numbers, you'll see there's no way they're going to make it,  
7 no matter what their IRP says.

8 MR. BABULA: Okay. So, despite what --

9 MR. GALATI: At this point -- I apologize. I'd like  
10 to break in and object for us waiting for when this would  
11 happen.

12 Mr. Sarvey had an opportunity to file all of that in  
13 prewritten testimony and was directed to do so. And he filed  
14 a bunch of exhibits afterwards, not for the purpose of cross-  
15 examination, but for supporting arguments that he knew and  
16 should have filed ahead of time so that neither staff nor I,  
17 and the Applicant is being surprised by the way he has just  
18 done that calculation. There's no way I can follow it.

19 So, I would -- rather than have a delay in the  
20 hearing, I would move that that be all considered to be  
21 comment because, again, it violates the rules set out to make  
22 it fair for everybody. This should have been his testimony.

23 MR. SARVEY: Is it my turn?

24 MR. BABULA: I have -- well, I want the -- does the  
25 Committee want to address Scott's objection?

1 MR. SARVEY: Do I get an opportunity to respond to it  
2 first?

3 HEARING OFFICER COCHRAN: I think that we are going  
4 to admit the testimony and we will give it the weight that it  
5 deserves based on whether it is testimony or comment. And we  
6 will make that -- and that's the ruling. So, it's admitted.

7 MR. SARVEY: I would still like to respond, please.

8 HEARING OFFICER COCHRAN: Please, go ahead.

9 MR. SARVEY: Okay. Staff and Applicant filed, both  
10 filed response to the Committee questions. There was no  
11 opportunity to respond to that. Most of this information  
12 I've give you is already in my testimony. Most of the  
13 exhibits that I filed is already referenced in my testimony.  
14 This is rebuttal testimony to what they're saying. They're  
15 saying the IRP is not a qualified GHG reduction plan. The  
16 Santa Clara CAP is expired. The only thing we have is to  
17 look at the numbers in this proceeding.

18 Now, if you want to get your calculator out, I'll  
19 read the stuff back and you can follow me, Mr. Galati. But  
20 that's rebuttal testimony. That's what it's called, okay.

21 HEARING OFFICER COCHRAN: And I think that I agree  
22 with that. You'll remember when we were at the prehearing  
23 conference we said that we would be allowing reply and  
24 rebuttal to the testimony that was offered on the Committee  
25 question. And so, today is the day for that. Mr. Sarvey did

1 refile his exhibits in much the same way that you added  
2 additional exhibits, Mr. Galati.

3 So, again, we will give it -- we will give Mr.  
4 Sarvey's testimony the weight that it deserved. Are there  
5 any other --

6 MR. BABULA: I just have one more question.

7 HEARING OFFICER COCHRAN: Sure, Mr. Babula.

8 MR. BABULA: Yeah, thank you. This is Jared Babula  
9 again for the staff.

10 Does the Supplemental Health Risk Assessment, which  
11 included the airport and other sources of toxic air  
12 contaminants performed by Drs. Chu -- or that were testified  
13 to by Dr. Chu, and filed in response to Committee questions  
14 address your concerns regarding the cumulative health risk  
15 assessment?

16 MR. SARVEY: No, it does not because it did not  
17 include several projects that are actually even on the list  
18 of projects that are within 1,000 feet of the project. And  
19 one of them is -- one of them is -- let me look it up. Give  
20 me a second, please.

21 (Pause)

22 MR. SARVEY: One of the projects is the 2805  
23 Lafayette Street Data Center is not included in your  
24 analysis. And also, the 1150 (indiscernible) Avenue Data  
25 Center is also not included in your analysis. So, you're



1 supposed to be looking at reasonably foreseeable projects, as  
2 well as the projects that exist, and that's the way the  
3 BAAQMD regulations read, and that's the way it's required.  
4 Reasonably foreseeable, you didn't include any reasonable  
5 foreseeable projects. You have quite a few of them in there,  
6 and they weren't in there. So, no, I'm not satisfied with  
7 that analysis. And I also believe --

8 DR. CHU: This is --

9 MR. SARVEY: I also believe the fact that you have --  
10 that your analysis determined that the impacts were above the  
11 .8 micrograms per cubic meter for PM 2.5 doesn't specify that  
12 it's at a specific receptor. And I think just the fact that  
13 it exceeds it, it exceeds the BAAQMD threshold.

14 DR. CHU: This is --

15 MR. BABULA: It sounds like -- hold on, Dr. Chu. It  
16 looks like I have a staff witness who would like to use a  
17 little redirect. Is that okay?

18 HEARING OFFICER COCHRAN: Well, let's finish your  
19 questions for Mr. Sarvey, first.

20 MR. BABULA: That's my last question for him.

21 HEARING OFFICER COCHRAN: Oka.

22 MR. BABULA: Go ahead, Dr. Chu.

23 HEARING OFFICER COCHRAN: Well, wait, wait. Mr.  
24 Sarvey, have I given you an opportunity to do your cross?

25 MR. SARVEY: No.

1 HEARING OFFICER COCHRAN: Mr. Sarvey, it's now your  
2 time to do cross-examination.

3 MR. SARVEY: I would like to cross the BAAQMD witness  
4 first, if I could, please.

5 HEARING OFFICER COCHRAN: Okay, Mr. Hilken are you  
6 available, still?

7 MR. HILKEN: Yes, I'm here.

8 HEARING OFFICER COCHRAN: And I would like to express  
9 on behalf of the Committee our thanks for your participating  
10 today. I think it's been very helpful, especially because we  
11 are so reliant on guidance from BAAQMD in addressing these  
12 issues. So, thank you for taking the time today.

13 MR. HILKEN: Sure, you're welcome.

14 HEARING OFFICER COCHRAN: Mr. Sarvey, please go ahead  
15 with your questions.

16 MR. SARVEY: Oh, okay. What issues does BAAQMD still  
17 have with the ISMND Air Quality and Greenhouse Gas analysis?

18 MR. HILKEN: I'm sorry, could you say that again, Mr.  
19 Sarvey, please?

20 MR. SARVEY: Well, when you originally spoke, you  
21 said you still had a couple of issues with the greenhouse gas  
22 analysis and also the use of diesel engines. Can you go over  
23 what shortcomings you still identify in the ISMND from  
24 BAAQMD's perspective?

25 MR. HILKEN: Well, what I was speaking to is that,

1 you know, we have policy initiatives to reduce and eliminate  
2 use of fossil diesel. There was reference earlier to a  
3 Diesel Free by '33 Campaign. And it's a campaign that our  
4 Air District launched a couple years ago to reduce and  
5 eliminate or encourage local governments and firms to reduce  
6 and eliminate use of diesel fuel for a couple reasons. One  
7 for climate reasons because the combustion CO2 emissions and  
8 black carbon emissions contribute to global climate change,  
9 and because the particle emissions from that combustion are  
10 hazardous to health.

11           And so, what I was expressing earlier is that  
12 separate from these individual proceedings the Air District,  
13 we've spoken with other air districts, we would very much  
14 like to continue a dialogue with the CEC and see how air  
15 districts throughout the state, certainly ours, working with  
16 state agencies like the CEC can move us away from using  
17 fossil diesel. That's beyond the scope of an individual  
18 project perhaps. It's a campaign we're interested in, we're  
19 embarked on, and we would like to work with the CEC in the  
20 months and years ahead to make progress in that direction.

21           MR. SARVEY: And you also said you had an issue with  
22 some portion of their greenhouse gas analysis. Could you  
23 expand on that?

24           MR. HILKEN: Well, I think what I expressed was that  
25 in our original letter we had expressed concerns about it.

1 And some of the previous speakers and the discussion we had  
2 right after lunch spoke to that. The additional text that  
3 staff included in the final report that pointed to those  
4 statewide programs, SB 100 specifically, that lays out very  
5 aggressive goals for decarbonizing the electrical grid, the  
6 Regional Portfolio Standard, and others, and align -- so, to  
7 achieve, so implementing those state regulatory programs to  
8 achieve those long-term statewide GHG reduction goals as  
9 expressed in a series of different governor executive orders.

10 MR. SARVEY: So, the 1,000, or 1,100 metric ton  
11 threshold for projects, land use projects is expired. Has  
12 BAAQMD proposed another one? And do you expect it to be a  
13 lower threshold?

14 MR. HILKEN: We have not -- we have not established a  
15 new one, nor have we even proposed a draft. We are working  
16 on that internally right now. And I can't speculate on what  
17 it will be.

18 MR. SARVEY: CEC staff claims natural gas generators  
19 cannot start fast enough to back up the data center. Is it  
20 your opinion that natural gas generators would be able to  
21 start fast enough to back up the data center?

22 MR. HILKEN: I'm not expert enough in that technology  
23 to respond to that.

24 MR. SARVEY: Okay. Would biodiesel be a possible  
25 fuel source for the diesel generators?

1 MR. HILKEN: Renewable diesel is one option, yes.

2 MR. SARVEY: Would that satisfy your no diesel  
3 initiative in '33?

4 MR. HILKEN: Yes. Yes, we would find renewable  
5 diesel would be consistent with that, yes.

6 MR. SARVEY: And would fuel cells also be a  
7 possibility for that purpose?

8 MR. HILKEN: Certainly. Absolutely.

9 MR. SARVEY: Okay, great. When performing the  
10 cumulative HRA does the impact have to be tied to a specific  
11 location or is any cumulative PM 2 point impact of .8  
12 micrograms per cubic meter impact significant?

13 MR. HILKEN: Well, I mean typically we're looking at  
14 sensitive receptors such as residential areas, schools,  
15 childcare, health facilities and so forth. What would be the  
16 impact in those sensitive land uses? I don't think it's  
17 really worthwhile speculating, you know, a receptor point in  
18 a parking lot. I mean we're interested in receptors,  
19 existing sensitive receptors.

20 MR. SARVEY: Okay. Now, the BAAQMD CEQA guidelines  
21 state accumulative impact occurs if the annual average PM 2  
22 point impact is .8 micrograms per cubic meter. If that  
23 entire impact is diesel particulate, in your opinion would  
24 that be even more of a significant impact?

25 MR. HILKEN: Well, in addition to that PM 2.5

1 threshold, we also have a cancer risk threshold that was  
2 referenced earlier in the hearing. And so, typically, we see  
3 both of those analysis. As was presented here, there  
4 specifically would be an analysis of toxic cancer risk and,  
5 in addition, a PM 2.5. Both of them are bad for your health.  
6 Diesel PM is bad for you, PM 2.5 wherever it comes from is  
7 bad for your health. And, typically, both of those analyses  
8 are presented.

9 MR. SARVEY: Thanks for your participation.  
10 Appreciate you being on the line. Thank you.

11 MR. HILKEN: Right.

12 HEARING OFFICER COCHRAN: Mr. Sarvey, do you have any  
13 other questions of any of the other witnesses from staff or  
14 applicant?

15 MR. SARVEY: I have a few questions for the staff.

16 HEARING OFFICER COCHRAN: Please proceed.

17 MR. SARVEY: Okay. So, no, a lot of this stuff's  
18 already been covered. You want the GHG questions as well?

19 HEARING OFFICER COCHRAN: Yes, please.

20 MR. SARVEY: Okay. I want to ask staff if they had  
21 reviewed SVP's Integrated Resource Plan, docketed as Exhibit  
22 28 by the Applicant.

23 DR. JIANG: Yes, this is Dr. Tao Jiang from the  
24 staff.

25 MR. SARVEY: Okay.

1 DR. JIANG: Yes, we did review that IRP.

2 MR. SARVEY: Okay. On page 1.1 of the Integrated  
3 Resource plans it states: Meeting the GHG targets assumes  
4 that only SVP-owned resources count towards the emissions  
5 target. SVP finds that the generic emissions rate of .428  
6 metric tons per CO2 per megawatt hour for spot market  
7 purchases per CEC guideline would be too high. If this rate  
8 is applied, SVP's portfolio emissions will exceed the GHG  
9 target.

10 To your knowledge, has the CEC provided another  
11 generic emission rate for spot market purchases?

12 DR. JIANG: I am the staff doing the Air Content  
13 analysis specifically for Walsh's project. And when you  
14 refer this document to CEC staff, I believe it's to another  
15 division of the CEC. So, I'm not the person who can answer  
16 you this question.

17 MR. SARVEY: Okay. So, your knowledge is that there  
18 is no other generic emission rate for spot market purchases?

19 DR. JIANG: I personally do not have this knowledge  
20 and I don't believe it's related to my initial study. So,  
21 today I'm only sponsoring what I wrote in my analysis  
22 regarding to this project specifically.

23 MR. SARVEY: Okay. According to your testimony in  
24 Exhibit 203, page 14, you state that the CEQA guidelines,  
25 Section 15183.5 allows an agency performing a project-

1 specific environmental analysis to rely on an EIR containing  
2 a programmatic analysis of greenhouse gas emissions.  
3 Typically, the referenced document would cover a general plan  
4 or other long-range city or county development plan.

5 Well, in this case Exhibit 505, the Santa Clara  
6 General Plan EIR states on page 11: The city's projected  
7 2035 GHG emissions would constitute a cumulatively  
8 considerable contribution to global climate change by  
9 exceeding the average carbon efficiency standard necessary to  
10 maintain a trajectory to meet statewide 2050 goals as  
11 established by EOS305 significant impact.

12 Did you know that the Santa Clara General Plan had  
13 made the determination that GHG impacts were significant and  
14 unavoidable for 2035?

15 MR. BABULA: I'm going to object to that question  
16 because it's not directly on his -- I'm not sure how it  
17 relates to Dr. Jiang's testimony that he has either stated  
18 orally or written.

19 MR. SARVEY: I just asked him if he had read the  
20 Santa Clara General Plan and he said he did. So, I was  
21 asking him if he knew that and did he consider it.

22 MR. BABULA: But this is a different document you're  
23 referencing.

24 MR. SARVEY: I'm referencing the Santa Clara General  
25 Plan EIR. Asked him had he looked at it and he said he did.



1 HEARING OFFICER COCHRAN: I'm going to overrule the  
2 objection. Dr. Jiang have you read -- are you familiar with  
3 that document?

4 DR. JIANG: I read this document only to the extent  
5 to finish my analysis. And I didn't read the entire  
6 document. So, I don't think I can answer all the questions  
7 in that document. We do have the representative from Santa  
8 Clara -- I mean from the SVP. And if you want to ask the  
9 question, I think they are the best person to answer.

10 MR. SARVEY: Okay, thank you. That's all I have.

11 HEARING OFFICER COCHRAN: Okay, so you're through  
12 with your cross-examination, Mr. Sarvey?

13 MR. SARVEY: Yes, I am.

14 HEARING OFFICER COCHRAN: Okay. Mr. Galati, I  
15 understand that you wanted an opportunity to cross-examine  
16 Mr. Sarvey?

17 MR. GALATI: Yes. I'm assuming Mr. Sarvey is done  
18 with his direct testimony on Air Quality and Greenhouse  
19 Gases, is that correct?

20 MR. SARVEY: Yes, I am, Mr. Galati.

21 HEARING OFFICER COCHRAN: Please proceed.

22 MR. GALATI: All right. Mr. Sarvey, at page 4-5 of  
23 Exhibit 200, which is the ISMND, the project (indiscernible)  
24 -- by the South Loop System is served by two electrical  
25 feeders. Do you recall that?

1 MR. SARVEY: Could you repeat that? You really broke  
2 up when you were asking that question. I'm sorry.

3 MR. GALATI: Page 4-5 of Exhibit 200, which is the  
4 ISMND, the project description describes how the South Loop  
5 System is served by two electrical feeders, each of which  
6 could support the South Loop System. Are you familiar with  
7 that?

8 MR. SARVEY: Yes, I'm familiar with that.

9 MR. GALATI: You don't disagree with that conclusion?

10 MR. SARVEY: I disagree that it's that much  
11 protected. Because unless the second loop is connected to a  
12 different substation, if one substation goes down you can  
13 have two feeders. It won't matter, the project still goes  
14 down.

15 MR. GALATI: Describes that (indiscernible) --  
16 substation. Are you familiar with that?

17 MR. SARVEY: I'm sorry, I can't hear you, Mr. Galati.

18 MR. GALATI: It describes that it comes from two  
19 separate substations. There are two feeders into the double  
20 loop system. Do you agree with that?

21 MR. SARVEY: That's not my understanding. But go  
22 ahead, ask your question.

23 MR. GALATI: You also point to a Washington  
24 Department of Ecology analysis for the CyrusOne project, but  
25 you didn't include that as an exhibit in this case. Are you

1 withdrawing that testimony?

2 MR. SARVEY: No, not at all.

3 MR. GALATI: So, you're still pointing to that  
4 analysis as an analysis that shows emergency modeling of data  
5 centers at the same time, is that correct?

6 MR. SARVEY: Well, actually, what I'm saying is a  
7 response to staff's testimony that air districts don't  
8 normally model emergency operation. And what I was saying is  
9 that most air districts do not have data centers with 100  
10 megawatts of backup diesel generation. And the only ones I'm  
11 familiar with are the Bay Area and Washington State.  
12 Washington State in fact does model every single data center  
13 for emergency operation. And the only data center I've aware  
14 of that BAAQMD has ever reviewed is the Santa Clara Data  
15 Center, and they did an evaluation of emergency operation  
16 there. So, that's what I'm referring to in my testimony.

17 MR. GALATI: Do you have an example of a CEQA project  
18 for CEQA purposes, not permitting purposes, but for CEQA  
19 purposes where that emergency modeling was done, other than  
20 Laurelwood?

21 MR. SARVEY: Other than Laurelwood?

22 MR. GALATI: Correct.

23 MR. SARVEY: I think I just told you that the Bay  
24 Area did the Santa Clara CAP -- I mean, did the Santa Clara  
25 project. They analyzed emergency operations from that. And

1 as far as I know, that's the only emergency operations that's  
2 been evaluated by BAAQMD and any -- it's the only permit  
3 that's been evaluated by BAAQMD, to my knowledge.

4 MR. GALATI: And that was done for permitting  
5 purposes, not for CEQA compliance, correct?

6 MR. SARVEY: No, that was done for CEQA compliance  
7 and permitting purposes. That was the whole --

8 MR. GALATI: So, it was BAAQMD that did the CEQA for  
9 that project?

10 MR. SARVEY: -- reason -- the fact we did it was for  
11 CEQA compliance.

12 MR. GALATI: So, BAAQMD did CEQA compliance for that  
13 Santa Clara project. Is that your contention?

14 MR. SARVEY: Yes, it is my contention. They did that  
15 before the Energy Commission ever became involved.

16 MR. GALATI: Your testimony states -- cites from the  
17 ATC, in the ATC analysis, that's the authority to construct,  
18 correct?

19 MR. SARVEY: Correct.

20 MR. GALATI: Mr. Sarvey, have you ever performed an  
21 air quality modeling analysis and submitted it to any agency?

22 MR. SARVEY: I've evaluated quite a few. I've never  
23 done one of my own, no.

24 MR. GALATI: Do you know if the Department of Ecology  
25 Analysis that you refer to, whether or not that section was

1 considered with the reason that that modeling was done was  
2 because it's on one electrical feeder. Would that surprise  
3 you?

4 MR. SARVEY: No, I don't believe the reason that they  
5 did the modeling was to make sure that the PM 2.5 and NO2  
6 impacts specifically wouldn't exceed air quality standards,  
7 and that was the reason they did it.

8 MR. GALATI: Is it because that what you just said is  
9 contradicted, is that why you did not put that permit and  
10 that health risk assessment as an exhibit in this proceeding?

11 MR. SARVEY: No, not at all. Didn't think that I was  
12 required to put in stuff that you wanted put in. I put in  
13 the stuff that I wanted to put on.

14 MR. GALATI: You rely on it, but you don't provide  
15 the documents.

16 MR. SARVEY: Yeah, I mentioned it in my testimony and  
17 you've seen it before in other proceedings, so it should be  
18 no surprise to you.

19 MR. GALATI: And I just wonder why you don't want the  
20 Committee to see it?

21 MR. SARVEY: I'd be happy to docket it, if you want  
22 it.

23 MR. GALATI: That would be great.

24 MR. SARVEY: Sure, no problem. But I doubt the  
25 Committee's going to accept it at this late date. But if

1 they do, I'll docket it. No problem.

2 MR. GALATI: You also refer to Exhibit 500, which is  
3 -- you refer in -- at pages 8 and 9 in your testimony, which  
4 is Exhibit 500, you refer to publicly reported outages for  
5 2019 from the Uptime Institute. Do you remember that?

6 MR. SARVEY: Yeah. Yeah, I remember something like  
7 that, uh-huh.

8 MR. GALATI: And you say that power outages only  
9 account for 25 percent of data center outages.

10 MR. SARVEY: I've seen different numbers. I've heard  
11 it's been 30 percent and I've also heard that UPS failures is  
12 the leading cause at 31 percent. I've heard a lot of  
13 different numbers from a lot of different areas, including  
14 the Uptime Institute's had several different numbers that  
15 they've issued over the years. So, I'm not sure exactly  
16 which one's correct, but they're all ball park.

17 MR. GALATI: When you read those reports do you think  
18 that outage means no electrical support?

19 MR. SARVEY: No. No, absolutely not. An outage  
20 could be something like a UPS failure where -- particularly,  
21 I have one in Exhibit -- the Friendster outage, where they  
22 had a UPS failure and they had to rely on their backup  
23 generators for many hours due to complications from the UPS  
24 failure.

25 Now, they get a lot of different -- you've got human

1 error could be an issue for the generators coming on. It  
2 could be, you know, a lot of different reasons. And that's  
3 why I'm saying relying on just power outages from SVP  
4 reported is not an accurate way to determine the frequency of  
5 the use of the backup generators.

6 MR. GALATI: So, you don't believe that the word  
7 outage in that report refers to the data center losing  
8 internet connectivity?

9 MR. SARVEY: In some cases the outage could refer to  
10 a power outage. There's a lot of different outages reported  
11 in those reports. And I've read quite a few of them. I  
12 can't say I've read specifically the one that you docket.  
13 But the other ones I've read, yeah, they list a lot of  
14 different reasons for power outages and that could mean the  
15 data center could go offline. Maybe it isn't, maybe it goes  
16 on backup power.

17 MR. GALATI: So, what I'm trying to say here or I'm  
18 trying to understand is you think every time they're talking  
19 about a data center outage the backup generators come on,  
20 correct?

21 MR. SARVEY: No. No, that's not what I'm saying at  
22 all.

23 MR. GALATI: So, there are outages that --

24 MR. SARVEY: That's what you're saying, not me.

25 MR. GALATI: -- that are unrelated to power outages.

1 There are outages unrelated to power outages that don't  
2 necessarily use the backup generators.

3 MR. SARVEY: There are reasons for the -- there's  
4 reasons for the backup generators to come on, other than a  
5 disconnection from SVP is what I'm saying.

6 MR. GALATI: I have no further questions.

7 MR. SARVEY: Thank you.

8 HEARING OFFICER COCHRAN: Okay, Mr. Babula, I believe  
9 you indicated you have some redirect you wanted to conduct?

10 MR. BABULA: Yes, thank you.

11 Dr. Ann Chu, can you explain regarding Mr. Sarvey's  
12 comment on what sources you used in your health risk  
13 assessment?

14 DR. CHU: Yes. I would like to clarify our  
15 cumulative health risk assessment. Actually, we did include  
16 2845 Lafayette and 2808 Lafayette in our cumulative health  
17 risk assessment.

18 And we used the receptors as the center of the 100-  
19 foot radius. So, as for the 2845 Lafayette, it's beyond the  
20 1,000-foot from all those three receptors we used in the  
21 cumulative health assessment.

22 And as for 2805 Lafayette, it's about 500 feet to a  
23 receptor of MEIW, but far from the other two receptors. So,  
24 it was included in the cumulative health risk assessment of  
25 MEIW.



1 MR. BABULA: Thank you. And then I do -- if Mr.  
2 Kolnowski is still on the phone, I would like to give him an  
3 opportunity to respond to some of the things Mr. Sarvey  
4 brought up regarding SVP, specifically, if he's available.

5 HEARING OFFICER COCHRAN: Mr. Kolnowski, are you  
6 still available?

7 MR. KOLNOWSKI: I am here. And first off, I want to  
8 let you know I did find out that our Integrated Resource Plan  
9 was adopted by the City Council on November -- one second  
10 here, November 27, 2018. So, it did go to Council, they did  
11 adopt it and it's the document that we have.

12 HEARING OFFICER COCHRAN: Okay. So, Mr. Kolnowski,  
13 again on behalf of the Committee I would like to thank you  
14 for your participate today. I know it's been a long day so  
15 far and you've been very patient with us. So, again, our  
16 appreciation for being here and participating in our process.

17 Mr. Babula, please go ahead.

18 MR. BABULA: Yeah, Mr. Kolnowski, did you hear Mr.  
19 Sarvey's response to my questions of him?

20 MR. KOLNOWSKI: Yes.

21 MR. BABULA: And in his response he detailed his view  
22 on why Silicon Valley Power's GHG emissions will go up or  
23 won't be -- are questionable. So, I just want to give you an  
24 opportunity to respond to any of his comments that he made.

25 MR. KOLNOWSKI: I believe he's oversimplifying the

1 situation. And again, we're a department of the City of  
2 Santa Clara. We take our directions from City Council. City  
3 Council's intent is that we meet the laws that are  
4 established by the State of California and they direct us to  
5 seek new generation sources to meet the GHG standards that  
6 are currently law for 2030 and 2045. And our City is  
7 committed to doing that.

8           And we take that target very serious and our mission  
9 is to acquire the correct resources to meet the needs of the  
10 City.

11           One comment I'd like to make in regards to there was  
12 a discussion starting to talk about a feeder, and so forth,  
13 that the way the South Loop is configured -- I'm trying to  
14 locate my drawing here, but I can't find it right now -- is  
15 each end of the loop is coming from a separate substation.  
16 And at each substation there are multiple transformers that  
17 feed that loop. This is one thing that Santa Clara has done  
18 throughout its history is to build in the redundancy to  
19 ensure reliability. So, not one substation is on a single  
20 feeder. So, I just wanted to make that comment.

21           MR. BABULA: Thank you. I have nothing further.

22           HEARING OFFICER COCHRAN: Okay. Does anyone have any  
23 further cross-examination, reply, rebuttal, et cetera, on the  
24 topics of Air Quality, Health Risk Assessment, and Greenhouse  
25 Gases? Going once, going twice, okay.

1           Following the prehearing conference we had indicated  
2   that we were going to allow the parties to have up to 10  
3   minutes to present a summary of the evidence presented today  
4   at closing statement.

5           Applicant, are you ready to proceed with your closing  
6   statement?

7           MR. GALATI: Yes, I am.

8           HEARING OFFICER COCHRAN: Please proceed.

9           MR. GALATI: As the Committee is aware, WP and staff  
10   are in complete agreement on the findings, conclusion and  
11   mitigation, including the new and modified mitigation  
12   measures, and concurrent opinion that the evidence  
13   conclusively proves that the project can make the findings  
14   necessary for an SPPE.

15           I'd remind the Committee that there's been no members  
16   of the public that have been interested in this project or  
17   others. It's only, really, Mr. Sarvey. And Mr. Sarvey has  
18   been given -- this is his third time to give his arguments  
19   that have happened -- that he has been able to make in the  
20   past. There are some new ones and we'll continue to address  
21   those.

22           But the bottom line is all of his claims and  
23   arguments don't really rise to the level of a clear argument  
24   because many of them, in fact all, are not supported by  
25   expert opinion or facts. They're supported by his argument.

1           In addition, unlike a normal CEQA process, he's had  
2 the opportunity to have all of those adjudicated at this  
3 evidentiary hearing.

4           You heard from Mr. Hubbard, who describes for you  
5 that it is not appropriate to take the maximum emissions,  
6 both for electricity production, and assume that on day one  
7 of the project that that's what's going to be served. You've  
8 heard that his experience is that even when it's fully  
9 leased, it's 60 to 70 percent of the peak electrical demand.

10           You've also learned that there's a couple of things  
11 that the project is doing, both Exhibit 1, as well as in  
12 Exhibit 200, describe all of the efficiency measures that the  
13 Walsh Data Center building is -- it has been incorporating  
14 into the design. And that those efficiency measures actually  
15 comply with the recommendations in the Santa Clara Action  
16 Plan.

17           You also know that the project is using very little  
18 water, which is also a greenhouse reduction strategy.

19           What you also know that the project has diesel  
20 particulate filters which reduces diesel particulate of 80 to  
21 95 -- actually, it's an 85 to 90 percent reduction.

22           The project is doing everything it can to reduce  
23 impacts. The area's electrical consumption, it is meeting a  
24 low RAP power rating. You'll see that in Exhibit 26, the  
25 industry average PUE for 2019, according to an annual survey

1 by Uptime Institute, of 1,600 participants, is that that PUE  
2 is 1.67. You heard Mr. Hubbard describe the PUE and working  
3 hard to make it lower, between 1.18 and 1.23.

4           So, the project is extremely efficient. Even though  
5 it does consume electricity, it consumes a lot less than  
6 many, many other projects, and certainly the average data  
7 center.

8           You've learned that emergencies are unexpected and  
9 speculative. I think that we've -- well, I'm not going to  
10 spend any more time on that because we didn't today in  
11 hearing, but I urge you to read our responses and to rely on  
12 Laurelwood.

13           As far as cumulative air quality modeling, we didn't  
14 talk about that today as well, but if you would please read  
15 our responses.

16           We did talk about public health. And what we did  
17 talk about is that the project has gone beyond, and the staff  
18 assessment has gone beyond what the Bay Area Air Quality  
19 Management District recommends in writing, and that the Bay  
20 Area Air Quality Management District representative testified  
21 they were satisfied with that.

22           So, we're left with greenhouse gas emissions and  
23 we're left with where is there a threshold? And the bottom  
24 line is there is no threshold for indirect emissions for  
25 electricity. So, does that mean that there isn't a numerical

1 threshold that no large electricity user can actually comply  
2 with CEQA? We have to use some common sense here. The best  
3 thing that we can do is what was done in this project.

4 And as Mr. Lisenbee testified, it's what other cities  
5 and counties do. What they do is they look at the indirect  
6 emissions and they ask themselves where are they coming from?  
7 And in this case, where they're coming from is Silicon Valley  
8 Power. And they ask themselves, is Silicon Valley Power on  
9 track to meet its goals? That's the best we can do.

10 But the second question we've asked as well, does the  
11 data center itself actually prevent Silicon Valley Power from  
12 meeting the goals necessary to reduce greenhouse gas  
13 emissions? There's no evidence of that. And all we can say  
14 is that large power users, if they're using electricity  
15 efficiently, they're doing their part.

16 The other option would be to say that data centers  
17 can't be above a certain size, or we can't build them.  
18 Clearly, greenhouse reduction strategies were not intended to  
19 halt all development. In fact, as we pointed out in Exhibit  
20 24, it's quite common when there is a new user that that new  
21 user's large electricity demand allows the utility to  
22 actually go out and purchase much more cleaner energy because  
23 it now has a demand for some additional power.

24 So, remember what our job is here. And that is to  
25 determine if there are significant impacts, and as well as to

1 provide a document upon which the City can ultimately  
2 determine whether it would like to issue a permit for a data  
3 center.

4 I think that Mr. Sarvey has made a lot of arguments.  
5 I don't think any of those arguments are necessary to include  
6 in a CEQA analysis. And that's what we're doing here.

7 So, the last piece I wanted to point out, only  
8 because I don't want to leave it hanging, and that is you  
9 heard Mr. Kolnowski describe that, yes, a project such as the  
10 Walsh Data Center actually would cause some expansion to the  
11 utility system. That expansion is covered in your ISMND. I  
12 think you will look at page 4-4 through 4-5 and you will find  
13 out that the Laurelwood Substation is in fact the substation  
14 being built on the Walsh Data Center property. That is  
15 described. It's on the maps. And it's discussed in the  
16 ISMND, as is the transmission lines. Although they're not  
17 final design, the routes, and the typical pole configuration,  
18 and the estimation of the number of poles is also identified.  
19 So, there's no impact to the utility system. You even heard  
20 Mr. Kolnowski agree that the data center funds its fair  
21 share. And these expansion plans are in the works prior to  
22 these data centers, and the data centers are helping to build  
23 them.

24 We're happy to answer any questions on the closing  
25 statement.

1 HEARING OFFICER COCHRAN: Is that -- are you done,  
2 Mr. Galati?

3 MR. GALATI: Yes, I'm done.

4 HEARING OFFICER COCHRAN: Okay, so I just dropped off  
5 suddenly, so I didn't know if we were still -- if you were  
6 still with us. Okay.

7 MR. GALATI: No, I apologize. I said I could answer  
8 any questions that the Committee might have on the closing  
9 statement.

10 HEARING OFFICER COCHRAN: Okay. I don't believe we  
11 have any.

12 So, I will now ask staff for its closing statement.

13 MR. BABULA: Great, thank you. This is Jared Babula.  
14 So, evidentiary hearings never turn out as clean and scripted  
15 event as I envision. But that's okay because we are dealing  
16 with complex topics. So, to stay the course our compass  
17 needs to be purpose. What is the purpose of this proceeding?

18 Under the Public Resources Code, the purpose is very  
19 limited and focused. It is determine whether the proposed  
20 project should be exempted from the Commission's licensing  
21 jurisdiction or subject to it. That is it.

22 The proceeding is not a forum to approve the project,  
23 design a new project, develop policy, deploy demonstration  
24 technology or update city plans. But how do we determine  
25 where jurisdiction should reside?



1           The answer in this case comes down to impacts. Under  
2 Public Resources Code, the Commission may exempt the project  
3 from its jurisdiction if the Commission finds that no  
4 substantial adverse impact on the environment or energy  
5 resources will result from the construction or operation of  
6 the proposed facility.

7           Technical staff's singular focus in evaluating the  
8 proposed project is to identify potential impacts and  
9 determine whether those impacts are substantial or  
10 significant. Only if significant impacts are identified can  
11 mitigation be proposed. Stakeholders raise concerns in the  
12 areas of energy resources, air quality, public health, and  
13 GHG emissions.

14           Energy resources were addressed by Mr. Kevin  
15 Kolnowski, the CEO of SVP, who was clear that SVP has been  
16 planning for the electrical load required by various data  
17 centers for years, and that SVP has the energy resources now  
18 and into the future to meet demand.

19           There is no contrary evidence in the record  
20 supporting any notion that SVP would not have adequate energy  
21 resources to meet future growth in demand from all sources.  
22 Therefore, staff correctly found no significant impacts and  
23 no mitigation necessary.

24           For Air Quality related to criteria pollutants, Dr.  
25 Jiang testified there were no significant impacts. These

1 findings are based on low levels of criteria pollutants  
2 generated from the testing of the backup generators and are  
3 crystalized in Tables 5.3-5 and 5.3-6 of the initial study.

4 The emission numbers contained in these tables are  
5 uncontested and support staff's finding of no significant  
6 impacts and no mitigation being necessary.

7 For Public Health related to criteria pollutants and  
8 toxic air contaminants, Dr. Jiang and Dr. Chu testified there  
9 were no significant impacts. Tables 5.3-7, -8, -9, and -10  
10 of the initial study and Tables 1 through 3 of the response  
11 to Committee questions support this conclusion, showing  
12 impacts are below thresholds of significance were not  
13 cumulatively considerable.

14 All the data contained in these tables are also  
15 uncontested in the record. Without a significance finding,  
16 no mitigation is necessary.

17 For GHG emissions, the backup diesel generators are a  
18 minor source of GHG, emitting well below the threshold of  
19 significance of 10,000 metric tons CO2 equivalent per year,  
20 as shown in Table 5.82 in the initial study.

21 As Dr. Jiang testified, the bulk of the project's GHG  
22 emissions are indirect emissions from the use of grid  
23 electricity. A determination of whether the project's GHG  
24 emissions are significant lies not with the backup  
25 generators, but with SVP's grid power. If SVP's GHG

1 emissions are consistent with state long-term GHG reduction  
2 targets, then the project's indirect GHG emissions will also  
3 be consistent and, therefore, no significant.

4 As Drs. Jiang testified, Chu, and Mr. Kolnowski  
5 confirmed, SVP's carbon intensity is trending down, while  
6 their RPS is increasing. Specifically, SVP stated they're on  
7 track to meet long-term GHG and RPH requirements mandated  
8 under state law, such as SB 100.

9 Critically, Mr. Kolnowski stated that the data  
10 centers, such as Walsh, do not impede this progress and the  
11 expectation is that most future procurement by SVP will be  
12 from renewable and zero carbon resources.

13 These facts showing SVP's consistency with long-term  
14 state GHG targets are uncontested in the record and support  
15 staff's finding that the project's GHG emissions would not be  
16 significant, obviating any need for mitigation.

17 The fact that staff found no significant impacts is  
18 not an endorsement that diesel generators should be  
19 installed, or that they will not be phased out by other laws  
20 and programs in the future, only that there are no  
21 significant impacts with the project as planned.

22 The uncontested facts, data and modeling results  
23 support staff's conclusion that the project as planned will  
24 not have any substantial or significant impacts on the  
25 environment or energy resources.

1           Therefore, with no impacts, the question this  
2 proceeding was created to answer, where should jurisdiction  
3 reside can be answered. The Commission may grant the  
4 exemption.

5           Thank you. And I'm available if there's any  
6 questions.

7           HEARING OFFICER COCHRAN: Thank you, Mr. Babula.

8           And finally, Mr. Sarvey, are you ready for your  
9 closing statement?

10          MR. SARVEY: Yes, I am.

11          HEARING OFFICER COCHRAN: Please proceed.

12          MR. SARVEY: Staff and the Applicant are relying on  
13 SVP's ability to meet their GHG reduction targets and we have  
14 a lot of speculation on whether they'll meet them or not.  
15 The numbers in the evidence show they won't.

16          The evidence shows the GHG emissions from the Walsh  
17 Data Center will be individually and cumulatively a  
18 significant impact.

19          Exhibit 505, the City of Santa Clara's General Plan  
20 EIR, page 24 of 594 states: The City's projected 2035 GHG  
21 emissions would constitute cumulatively considerable  
22 contribution to global climate change by exceeding the  
23 average carbon efficiency standard necessary to make the  
24 statewide 2050 goals as established by EOS3-05, which is a  
25 significant impact.

1           The City's General Plan, which staff and Applicant  
2 both said should be relied on, states that the project will  
3 not meet the climate goals expressed in EOS3-05.

4           The evidence shows that SVP will not reduce its GHG  
5 emissions enough to meet the 2030 targets required by state  
6 goals. Silicon Valley Power's load growth will cause Silicon  
7 Valley Power's overall GHG emissions to increase or stay  
8 steady, even with the lower carbon intensity of its  
9 resources.

10           Exhibit 28, page A-11 shows SVP's GHG emissions from  
11 just its natural gas-fired generation increases from 227,243  
12 metric tons per year in 2019 to 312,958 metric tons a year in  
13 2030. That does not include the GHG emissions from its  
14 unspecified market purchases, which the Integrated Resource  
15 Plan admits will cause SVP to miss its 2030 GHG targets.

16           As stated in Exhibit 28, Silicon Valley Power's  
17 Integrated Resource Plan, on page 1.1, meeting the GHG  
18 targets assumes that only SVP-owned resources count towards  
19 the emission targets. SVP finds that its emission rate of  
20 .428 metric tons of CO2 per megawatt hour for spot market  
21 purchases per CEC guidelines will cause them to exceed their  
22 GHG target.

23           Now, if you assume the high load growth forecasted in  
24 the Integrated Resource Plan on page 4-6, up to 7 million  
25 megawatt hours, the GHG emissions from SVP's retail sales

1 would be about 20 percent higher than the 2020 emissions,  
2 using their emission factors.

3 Staff claims that no air quality impacts from  
4 emergency operations evaluation is necessary because SVP  
5 experienced no impacts from the 2019 PSPS shutoffs. Staff is  
6 wrong. As Exhibit 508 and 509 demonstrate that SVP lost  
7 access to both geothermal resources and small hydro resources  
8 during two PSPS shutoffs in 2019.

9 Wildfires are expected to increase and be more  
10 severe. So, a PSPS shutoff for SVP or curtailment of some of  
11 their resources is reasonably foreseeable.

12 Staff relies exclusively on power curtailment by SVP  
13 to determine the probability of the backup generators  
14 operating. There are other reasons why backup generators  
15 operate in emergency mode at data centers. Events like UPS  
16 failures, human error, weather impacts, and other emergency  
17 conditions lead to emergency operation of generation at data  
18 centers.

19 An analysis of emergency operation centers' air  
20 quality impacts must be performed to see if emergency  
21 operations cause an air quality or public health impact.  
22 Without this analysis, the Applicant has not met the burden  
23 of proof that the project will not cause or contribute  
24 substantially to an air quality exceedance or a health risk  
25 from toxic air contaminants when the project operates in

1 emergency mode. That is the purpose of the project.

2 And that's all I have, thank you.

3 HEARING OFFICER COCHRAN: Thank you, Mr. Sarvey.

4 We will now turn to public comment. And I'm going to  
5 unmute everyone. The lines are open. If you're making a lot  
6 of noise, I will probably mute you. So, if you want to mute  
7 yourself if you have no public comment, please do so now.

8 Is there anybody on the line who would like to make a  
9 public comment on the Application for a Small Power Plant  
10 Exemption for the Walsh Backup Generating System?

11 I am not seeing any hands raised. I have no chat.  
12 Anybody? Okay.

13 At this time, the Committee will now adjourn to a  
14 closed session in accordance with California Government Code  
15 Section 11126(c)(3), which allows a state body to hold a  
16 closed session to deliberate on a decision to be reached in a  
17 proceeding the state body was required by law to conduct.

18 We anticipate we will return from closed session in  
19 approximately one hour. We would like to ask the parties to  
20 stay as there may be reportable action out of closed session.

21 So, with that we are now in closed session.

22 (Convene Closed Session at 2:26 p.m.)

23 (Reconvene Open Session at 3:49 p.m.)

24 HEARING OFFICER COCHRAN: And I'm looking for  
25 Commissioner Douglas.

1           PRESIDING MEMBER DOUGLAS: Oh, I'm here. I just  
2 joined by phone. So, as Susan had said, we're back from  
3 closed session. And I will turn this over to here and make a  
4 report, and then I will close this up.

5           HEARING OFFICER COCHRAN: Thank you. So, there is  
6 reportable action from closed session. The Committee makes  
7 the following report. There will be a subsequent notice and  
8 order concerning some of these deadlines for the parties.  
9 The Committee will be looking for legal briefing from the  
10 parties. That legal briefing will be due seven business days  
11 after the transcript is posted on the proceedings docket.

12           In the April 30, 2020 Notice of the Evidentiary  
13 Hearing, we had established that we would have a  
14 consideration of the Committee Proposed Decision on the July  
15 Business meeting. At this time, the Committee believes that  
16 the consideration of the Committee Proposed Decision will  
17 actually be on the August Business meeting.

18           That is the end of the reportable action from closed  
19 session. As I said, there will be a follow up in writing of  
20 these dates and deadlines.

21           PRESIDING MEMBER DOUGLAS: All right, and with that  
22 then the hearing is finished and we're adjourned. Thanks  
23 everyone.

24           (Thereupon, the Hearing was adjourned at  
25 3:51 p.m.)

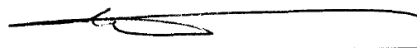


**REPORTER' S CERTIFICATE**

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of June, 2020.



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PETER PETTY  
CER\*\*D-493  
Notary Public

**TRANSCRIBER'S CERTIFICATE**

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of June, 2020.



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Barbara Little  
Certified Transcriber  
AAERT No. CET\*\*D-520