

HEARING  
BEFORE THE  
CALIFORNIA ENERGY RESOURCES CONSERVATION  
AND DEVELOPMENT COMMISSION

In the Matter of: )  
 )  
Application for Certification ) Docket No.  
for the Metcalf Energy Center ) 99-AFC-3  
(Calpine Corporation and )  
Bechtel Enterprises, Inc.) )  
----- )

GENERAL SERVICES ADMINISTRATION  
BUILDING II  
1555 BERGER DRIVE  
SAN JOSE, CALIFORNIA

THURSDAY, FEBRUARY 15, 2001

2:05 p.m.

Reported by:  
James Ramos  
Contract No. 170-99-001

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

COMMITTEE MEMBERS PRESENT

Robert A. Laurie, Commissioner, Presiding Member

William Keese, Chairman, Associate Member

Gary Fay, Hearing Officer

STAFF PRESENT

Kerry Willis

Paul C. Richins, Jr.

Linda Spiegel

Gary Walker

APPLICANT

Jeffery D. Harris, Attorney,  
Chris Ellison, Attorney  
Ellison, Schneider and Harris  
for Calpine Corporation/Bechtel Enterprises

Kenneth E. Abreu, Development Manager  
Calpine Corporation  
Metcalf Energy Center

John L. Carrier, Senior Project Manager  
Debra J. Crowe  
CH2MHILL

Steve DeYoung  
Calpine Corporation/Bechtel Enterprises

Gregory S. Darvin  
RTP Environmental Associates, Inc.

Stuart B. Weiss

Mark R. Jennings

Thomas Priestley  
Harza Engineering Company, Incorporated

James M. Dunstan

APPLICANT

Gary Rubenstein  
Sierra Research, Calpine Corporation

Paul Stocks  
Hillier Architectural Group

INTERVENORS

Scott Scholz  
South San Jose.com

Michael E. Boyd, Commissioner  
City of Sunnyvale  
Californians for Renewable Energy, CARE

William J. Garbett  
Issa Ajlouny  
Jeffrey Wade  
Agents, Public

ALSO PRESENT

Cecilia Brown  
United States Fish and Wildlife Service

William Walters  
Aspen Environmental

Joe Donaldson  
Jones and Stokes

Mollie Dent  
Richard Buikema  
City of San Jose

## I N D E X

	Page
Proceedings	1
Opening Remarks	1
Presiding Member Laurie	1
Hearing Officer Fay	1
Introductions	1, 2
Exhibits	3
Evidentiary Topics	20
Biological Resources	20
Applicant witnesses D. Crowe, G. Darwin, S. Weiss, M. Jennings	20
Direct Examination by Mr. Harris	20
Exhibits	20 / 172
Cross-Examination by Ms. Dent	62
Cross-Examination by Mr. Ajlouny	112
Cross-Examination by Mr. Boyd	144
Cross-Examination by Mr. Scholz	156
Redirect Examination by Mr. Harris	162
Recross-Examination by Ms. Dent	166
Recross-Examination by Mr. Ajlouny	169
CEC Staff witnesses L. Spiegel, C. Brown	173
Direct Examination by Ms. Willis	173
Exhibits	174 / 183
Cross-Examination by Ms. Dent	184
Cross-Examination by Mr. Ajlouny	212
Cross-Examination by Mr. Boyd	226
Cross-Examination by Mr. Scholz	240
Visual Resources	
Applicant witnesses T. Priestley, J. Dunstan, K. Abreu, G. Rubenstein, P. Stocks	253
Direct Examination by Mr. Harris	253, 287, 340
Exhibits	253 / 353
Examination by Committee	281, 338, 348
Cross-Examination by Ms. Willis	363
Cross-Examination by Ms. Dent	389
Cross-Examination by Mr. Ajlouny	419

## I N D E X

	Page
Evidentiary Topics	
Visual Resources - continued	
Applicant witnesses T. Priestley, J. Dunstan, K. Abreu, G. Rubenstein, P. Stocks - continued	
Cross-Examination by Mr. Garbett	442
Cross-Examination by Mr. Wade	451
Cross-Examination by Mr. Scholz	463
Examination by Committee	470
CEC Staff witnesses J. Donaldson, W. Walters, G. Walker	473
Direct Examination by Ms. Willis	474
Exhibits	475 / 493
Examination by Committee	493, 524
Cross-Examination by Mr. Harris	506
Cross-Examination by Mr. Ajlouny	526
Cross-Examination by Mr. Garbett	544
Cross-Examination by Mr. Wade	552
Cross-Examination by Mr. Scholz	556
Exhibits	569 / 570
Adjournment	574
Reporter's Certificate	575

## P R O C E E D I N G S

2:05 p.m.

1  
2  
3 PRESIDING MEMBER LAURIE: Ladies and  
4 gentlemen, good afternoon. My name is Robert  
5 Laurie, Commissioner at the California Energy  
6 Commission, Presiding Member of the Metcalf Siting  
7 Committee case.

8 To my far right is Chairman Bill Keese,  
9 my colleague on the Committee. And to my  
10 immediate right is Mr. Gary Fay. Mr. Valkosky is  
11 temporarily out of duty and will be rejoining us  
12 but not for the day.

13 Mr. Fay.

14 HEARING OFFICER FAY: Thank you,  
15 Commissioner Laurie. We will use the same process  
16 that we've used previously in this case. And I've  
17 discussed that with Mr. Valkosky.

18 Just a few housekeeping matters. I want  
19 to call your attention to handouts on the back  
20 table by the coffee. There are copies of the  
21 draft exhibit list that has been updated. And  
22 copies of the notice, as well, and the topic and  
23 witness schedule for today.

24 Even though this was noticed for today  
25 and tomorrow, it is the Committee's fervent wish

1 that we complete all business today. And so we  
2 ask the parties to keep that in mind, and we'll  
3 try to be as efficient as possible as we go  
4 through everything.

5 I would like to, before we get into any  
6 other housekeeping matters, I'd like to take  
7 introductions at this time, if we could just  
8 proceed.

9 PRESIDING MEMBER LAURIE: And let's go a  
10 little slow for Mr. Fay's benefit, so he can  
11 actually listen. Thank you.

12 (Laughter.)

13 MR. ABREU: I'm Ken Abreu; I'm the  
14 Development Manager for Calpine/Bechtel. To my  
15 left is Jeff Harris, our Attorney. And Steve  
16 DeYoung, our Environmental Project Manager. And  
17 John Carrier, our Project Manager from CH2MHILL.

18 The other folks are witnesses that we'll  
19 introduce at that time.

20 HEARING OFFICER FAY: Thank you. And,  
21 staff.

22 MS. WILLIS: I'm Kerry Willis, Staff  
23 Counsel, representing the staff in these  
24 proceedings. And to my right is Linda Spiegel who  
25 will be our witness in biology. Cecilia Brown,

1           who is with the U.S. Fish and Wildlife Service.  
2           And Paul Richins, Project Manager.

3                       HEARING OFFICER FAY: Thank you. And  
4           intervenors who are present.

5                       MR. AJLOUNY: Issa Ajlouny, local  
6           resident, intervenor.

7                       MR. SCHOLZ: Scott Scholz, local  
8           resident, intervenor.

9                       MS. DENT: Mollie Dent, Attorney for the  
10          City of San Jose.

11                      HEARING OFFICER FAY: Any others? Any  
12          other intervenors present? Okay.

13                      Before we get started I'd like to clear  
14          up a couple questions about exhibits. I  
15          understand that the City wanted to verify the  
16          authenticity on a couple of exhibits that had  
17          previously been offered.

18                      Have you verified that?

19                      MS. DENT: Of the two memos, no, I'm  
20          sorry, I have not. I will do that by tomorrow's  
21          hearing.

22                      HEARING OFFICER FAY: Okay. We may not  
23          be here tomorrow.

24                      MS. DENT: Oh, I thought biology was  
25          today and --

1 HEARING OFFICER FAY: Biology and visual  
2 are noticed for today and tomorrow. And we will  
3 try to finish --

4 MS. DENT: Oh, I'm sorry, --

5 HEARING OFFICER FAY: -- both of them --

6 MS. DENT: -- I thought it was biology  
7 today and visual tomorrow.

8 HEARING OFFICER FAY: No, that's what I  
9 just -- are there any questions about that? We  
10 intend to finish all our business for the two days  
11 today. Does that cause a problem for anybody? I  
12 know the applicant has gone for --

13 MS. DENT: I was not prepared to do  
14 visual today, and I didn't read the notice that  
15 way, but I'm not going to -- I don't want to delay  
16 the proceedings on that grounds. I'll try to -- I  
17 didn't even bring the visual information with me.  
18 I might need a short break to get someone to bring  
19 it over.

20 PRESIDING MEMBER LAURIE: Well, Ms.  
21 Dent, what we're going to do, before we start  
22 visual, is we're going to have a discussion as to  
23 the nature of what the controverted testimony  
24 might be.

25 And if it's just a question, not is

1           there going to be a visual impact, because I don't  
2           know what can be added besides the written  
3           testimony, but if it's a question of what the  
4           building is going to look like, the applicant has  
5           a special witness here that the Committee's very  
6           interesting in hearing about, what potential and  
7           possibilities are.

8                         Other than that, it's not the  
9           Committee's intent to otherwise debate what the  
10          building is going to look like today, because we  
11          want to consider alternatives that might exist to  
12          finding that solution.

13                        So, visual, there may not be a lot to  
14          say about visual. But we'll see what everybody's  
15          greatest concerns are.

16                        MS. DENT: I completely agree with you,  
17          I just didn't bring any of the material with me on  
18          visual today, because I didn't anticipate --

19                        PRESIDING MEMBER LAURIE: You'll let us  
20          know if you feel that you're irreparably harmed --

21                        MS. DENT: I certainly will. Thank you.

22                        HEARING OFFICER FAY: Thank you. And  
23          Mr. Valkosky also indicated there was -- is there  
24          a question about exhibits 93 and 94 from the  
25          applicant?

1                   MR. HARRIS: Those are the same  
2 documents.

3                   HEARING OFFICER FAY: Those are the two,  
4 okay.

5                   MR. HARRIS: The two from the City, yes.

6                   HEARING OFFICER FAY: So we still have  
7 to hear from the City on that.

8                   MR. HARRIS: Right.

9                   HEARING OFFICER FAY: Will you be able  
10 to get word on that, Ms. Dent, today?

11                   MS. DENT: No, I will not. That I'm  
12 going to have to check with the clerk's office.  
13 I'm going to call my office to bring over the  
14 other material for visual, but I don't have that  
15 in my office, those --

16                   HEARING OFFICER FAY: Okay, so --

17                   MS. DENT: But I do want to make it  
18 clear that I believe that the exhibits that were  
19 introduced, even though they weren't signed, are  
20 public documents in our council packet. I just  
21 wanted to make sure that the ones that you are  
22 using and have in the record are the official  
23 versions.

24                   HEARING OFFICER FAY: Okay. Can you let  
25 us know at the next hearing?

1 MS. DENT: I will certainly let you  
2 know. I'm sorry --

3 HEARING OFFICER FAY: That will be two  
4 weeks from today.

5 MS. DENT: I'm sorry that that slipped  
6 my mind. I really am.

7 HEARING OFFICER FAY: All right, I'm  
8 sorry, two weeks from yesterday.

9 This is the fourth set of evidentiary  
10 hearings for the proposed Metcalf Energy Center  
11 and the Committee noticed this set of hearings in  
12 a notice of hearing order issued on January 12th  
13 of this year.

14 That document also contained the filing  
15 dates for testimony. And as I indicated earlier,  
16 those filing dates and the order that we'll  
17 receive testimony is on a schedule in the back.

18 In addition to the October 2000 staff  
19 assessment, and the AFC document, and associated  
20 supplements, other filings pertinent to this set  
21 of hearings include the applicant's group 3A  
22 testimony filed on January 24th; that is exhibit  
23 95.

24 Staff's group 2B FSA changes regarding  
25 plume analysis dated February 2nd; that is exhibit

1           96. And applicant recently filed its spreadsheet  
2           summarizing additional visible water plume  
3           analysis dated February 13, 2001; and we will mark  
4           that as exhibit 97. And it is included in the  
5           draft exhibit list and identified as exhibit 97.

6                       The purposes and procedures we will  
7           follow today are the same as the previous  
8           evidentiary hearings. Basically a party  
9           sponsoring a witness shall briefly establish the  
10          witness' qualifications and have the witness  
11          orally summarize the prepared testimony before  
12          requesting that the testimony be moved into  
13          evidence. Relevant exhibits may be offered into  
14          evidence at that time as well.

15                      At the conclusion of the witness' direct  
16          testimony the Committee will provide the other  
17          parties an opportunity for cross-examination,  
18          followed by redirect and recross examination, as  
19          appropriate.

20                      At the conclusion of each topic area we  
21          will provide an opportunity for public comment in  
22          that topic area.

23                      The parties are encouraged to  
24          consolidate presentations by witnesses and/or  
25          cross-examination to the greatest extent possible

1 in order to minimize duplication and conserve  
2 hearing time. And that translates into having  
3 panels testify wherever possible, rather than  
4 bringing witnesses up one at a time in a subject  
5 area.

6 Are there any questions before we get  
7 started?

8 MR. AJLOUNY: Yes, this is Issa Ajlouny,  
9 and I have a few questions and a few concerns.

10 The first one, exhibit 97, --

11 HEARING OFFICER FAY: Yes.

12 MR. AJLOUNY: Is that going to be  
13 presented today for the first time?

14 HEARING OFFICER FAY: I believe so. Mr.  
15 Harris, are you planning to introduce that today,  
16 or at least discuss it?

17 MR. HARRIS: Yes, it was filed and  
18 served on Tuesday because Monday was a state  
19 holiday. And I have additional copies, I think,  
20 as well.

21 HEARING OFFICER FAY: You do have  
22 additional copies? Where are those available?

23 MR. HARRIS: We will by the time it's  
24 relevant.

25 HEARING OFFICER FAY: Okay.

1                   MR. AJLOUNY: Well, my concern is that I  
2                   didn't have a chance to look at that, and prepare  
3                   for it or anything.

4                   MR. HARRIS: Our intent, rather than  
5                   bringing it today so you'd see it the first time,  
6                   was to mail it on Tuesday and get it to you as  
7                   soon as possible.

8                   So, that's why we mailed it on Tuesday,  
9                   but again with the state holiday it kind of became  
10                  an issue. So, basically it's one spreadsheet that  
11                  was developed by Gary Rubenstein, and he worked  
12                  through the weekend to get it available. So  
13                  that's why we did that.

14                  And I actually weighed the balance of  
15                  whether we ought to bring to the hearing or mail  
16                  it out, and I decided that we ought to send it out  
17                  as soon as possible.

18                  PRESIDING MEMBER LAURIE: You don't have  
19                  any copies?

20                  MR. HARRIS: We will by the time we get  
21                  to visual, yes. We're going to have our  
22                  consultant bring over copies. And other copies  
23                  were filed and served. It should have arrived in  
24                  the mail by today.

25                  PRESIDING MEMBER LAURIE: Well, it --

1 MR. AJLOUNY: My mail doesn't come till  
2 3:00.

3 PRESIDING MEMBER LAURIE: Yes, we'll  
4 take a look, we'll see what it is. If it's  
5 reasonable to indicate that you have a detriment  
6 because there's been inadequate opportunity to  
7 review, we'll take a look at it.

8 MR. AJLOUNY: That's fair, thank you.  
9 Second concern is, because this is all new to me,  
10 Mr. Fay, the issue with the biological opinion  
11 review, is that the -- no, biological review  
12 opinion, whatever the words are --

13 HEARING OFFICER FAY: Biological  
14 opinion, um-hum.

15 MR. AJLOUNY: Okay. From the U.S. Fish  
16 and Wildlife, as I understand it, has still not  
17 been delivered?

18 HEARING OFFICER FAY: Yes, and I'm sure  
19 they'll get into that today --

20 MR. AJLOUNY: But -- okay, so just --

21 HEARING OFFICER FAY: -- during the  
22 testimony.

23 MR. AJLOUNY: -- to confirm that it  
24 hasn't. I have a hard time doing a good analysis  
25 and getting ready for the cross-examination when

1           that's a significant part of this whole process.

2                       I know, you know, I'm just going to  
3           state it for the record, I really feel strongly  
4           that this whole bio should be continued until we  
5           do have a way to look at all testimony, all  
6           evidence, and be able to do a thorough cross-  
7           examination.

8                       HEARING OFFICER FAY: I understand your  
9           frustration. In many of our power plant siting  
10          cases the U.S. Fish and Wildlife Service has not  
11          had the biological opinion prepared within the  
12          timeframe that we have for power plant siting.

13                      If the staff conditions of certification  
14          are supported by U.S. Fish and Wildlife Service we  
15          get that on the record, if they feel comfortable  
16          doing that. And that gives the record some sense  
17          of how compatible the biological opinion is likely  
18          to be.

19                      If, as it turns out, there is a  
20          difference and the biological opinion requires  
21          additional things, it's a federal judgment, and it  
22          will preempt.

23                      So, the conditions can only get tougher  
24          if the biological opinion requires that.

25                      MR. AJLOUNY: I understand that it's

1       been done before and it's maybe normal procedure.  
2       But I want to state for the record I don't feel  
3       that that's correct. I mean it hasn't been the  
4       way we've been doing business in these hearings.  
5       I think it's highly irregular to sit there and  
6       have a testimony and exhibits and so forth, and  
7       not have it all before us so we can do a thorough  
8       job.

9               So, with that, I didn't do much in the  
10       bio because I thought this wouldn't happen. And  
11       then I found out yesterday that it's normal that  
12       you do a bio, even though U.S. Fish and Wildlife  
13       isn't out.

14              Now, I remember in the prehearing we  
15       talked about it, and we put the biological at the  
16       third set hoping that it would be out, and that  
17       was a concern in the prehearing. So, I thought I  
18       wasn't off base thinking that, you know.

19              PRESIDING MEMBER LAURIE: Why don't  
20       you -- you're free to ask staff a question or two  
21       or three, whatever is necessary to get an  
22       understanding of their testimony in light of not  
23       having a final federal biological opinion.

24              And you're certainly free to make a  
25       continuing objection, but you can also be educated

1 at that time.

2 MR. AJLOUNY: Okay, and then my last  
3 concern is something we've talked about,  
4 Commissioner Laurie, and I just want to emphasize  
5 it, especially with more and more pressure from  
6 the state legislators and stuff.

7 I'm just real concerned that that might  
8 interfere with this independent study that, you  
9 know, that we're going through here in the  
10 process. And if there's anything, and I don't  
11 know what the legal words are, but if there's  
12 anything that you're receiving from the state  
13 legislators, any pressures or documents or phone  
14 calls, I'd like to know about them, and to  
15 actually --

16 PRESIDING MEMBER LAURIE: Every  
17 communication, and I've received only one, and  
18 that one is the letter sent to the Chairman, and  
19 that has been docketed, I have not received any  
20 other. There have been no other communication.  
21 Any other communication would be docketed.

22 MR. AJLOUNY: Okay, and that's the  
23 point, being docketed and being served, I found,  
24 is two different things. And I even went on the  
25 website as recent as yesterday and it still isn't

1 anywhere where I can see it or anything.

2 So I guess what I'm asking, to further  
3 on my concern, is if anything is, if you could  
4 insure that those that are interested parties get  
5 a copy of that. If it's a phone conversation, if  
6 it's like that letter --

7 PRESIDING MEMBER LAURIE: If I have any  
8 ex parte communications I will not only docket, I  
9 will send a copy of what's docketed to the  
10 parties.

11 MR. AJLOUNY: Okay, so we'll get a  
12 letter from Senator John Burton that was sent to  
13 Commissioner Keese?

14 PRESIDING MEMBER LAURIE: You have it.  
15 You --

16 MR. AJLOUNY: Well, I don't have a --

17 PRESIDING MEMBER LAURIE: You had it  
18 before I had it.

19 MR. AJLOUNY: I realize that, but I  
20 don't have a good copy of it. Mine, I couldn't  
21 read the whole thing --

22 PRESIDING MEMBER LAURIE: Well, I don't  
23 have a good copy, either, so whenever -- I'm not  
24 going to go back now and --

25 MR. AJLOUNY: Well, --

1                   PRESIDING MEMBER LAURIE: -- it out and  
2                   find it. You have it.

3                   MR. AJLOUNY: Okay, --

4                   HEARING OFFICER FAY: I think your best  
5                   pass on that is to contact the Public Adviser.  
6                   You're correct, there is a gap, all documents are  
7                   not served, just documents that are introduced.  
8                   And if something comes in, like correspondence,  
9                   like that letter you're referring to, it is not  
10                  then served by the Energy Commission to everybody  
11                  in the case. It sits in the public record.

12                  And what parties do is go to the docket  
13                  office and search the public records. The master  
14                  document file that is duplicated on the webpage  
15                  lists all documents that come in. So if you check  
16                  that regularly you'll know if something came in  
17                  that you were not served a copy of.

18                  But my suggestion is keep in touch with  
19                  the Public Adviser and get that kind of help from  
20                  the Public Adviser's Office.

21                  PRESIDING MEMBER LAURIE: What I will  
22                  send you is my response to Mr. Hertzberg's office.  
23                  It was a written response. It has been docketed.  
24                  I will send a copy to the parties.

25                  I can tell you in summary fashion my

1 response said I acknowledge the existence of your  
2 letter, thank you very much. That's pretty much  
3 what my letter says.

4 But, again, and Mr. Fay, if you could  
5 remind me, or staff could remind me -- or staff  
6 could remind you, since they're not allowed to  
7 talk to me, we will serve a copy of my letter.

8 MR. AJLOUNY: Okay, see, I wasn't aware  
9 of that. And when I look at the website it  
10 doesn't even have anything from this year. I  
11 think the last thing is like in December or  
12 November of 2000. So I can't even see the line  
13 item to request it.

14 So, again, just getting a copy to all  
15 interested parties, it's a very sensitive issue.  
16 It's been in the paper all the money's being spent  
17 for these legislators, it's a real concern to us  
18 as citizens.

19 PRESIDING MEMBER LAURIE: Okay.

20 MR. AJLOUNY: Thank you.

21 PRESIDING MEMBER LAURIE: Thank you.

22 MS. DENT: I'm sorry to interrupt. I  
23 was outside the room when you went through the  
24 procedure, and I had a question procedurally about  
25 the U.S. Fish and Wildlife Service witness, and

1 any documentary evidence that might be introduced.

2 Just so that I understand, since there  
3 was no prefiling on behalf of that witness and no  
4 service of any prefiled testimony, do I understand  
5 that the U.S. Fish and Wildlife Service will be  
6 testifying as a comment and not under oath as some  
7 other witnesses have done, or do I understand that  
8 the witness is not going to be testifying, but is  
9 only here to assist staff?

10 I'm sorry, I was outside the room when  
11 you --

12 HEARING OFFICER FAY: Let's ask staff to  
13 characterize the nature of the testimony.

14 MS. WILLIS: I spoke with Mr. Valkosky  
15 earlier when we had scheduled Ms. Brown to come,  
16 and he said he would prefer that she be sworn and  
17 under oath.

18 The substance of her testimony would  
19 just be whether or not staff's testimony and  
20 conditions of certification would be consistent  
21 with the biological opinion.

22 MS. DENT: And I will be objecting,  
23 then, to the witness' testimony. I hate to do  
24 that to another governmental witness, but I will  
25 have to state the objection on the record at that

1 time because the witness' testimony was not  
2 prefiled, and there is, as a result, a surprise  
3 and really an inability to cross-examine the  
4 witness.

5 But I'm not going to hold the proceeding  
6 sup on that basis.

7 HEARING OFFICER FAY: Fine. Any other  
8 preliminary matters, then, before we start? All  
9 right, Mr. Harris, are you prepared to introduce  
10 your witnesses on biological resources?

11 MR. HARRIS: Yes, we are. I'd ask that  
12 our witnesses be sworn first.

13 HEARING OFFICER FAY: Please swear the  
14 witnesses. And could you have them stand so we  
15 know who your panel is.

16 Whereupon,

17 DEBRA CROWE, STUART WEISS, GREG DARVIN

18 and MARK JENNINGS

19 were called as witnesses herein, and after first  
20 having been duly sworn, were examined and  
21 testified as follows:

22 MR. HARRIS: Thank you. We do have a  
23 panel that will be presenting information today.  
24 We have four witnesses, Debra Crowe, Dr. Stuart  
25 Weiss, Greg Darvin and Dr. Mark Jennings.



1                   Section 8.2 of the AFC is exhibit 1.  
2                   Appendix 8.2 of the AFC is also exhibit 1. Can I  
3                   just read the exhibit numbers from that point, is  
4                   that satisfactory?

5                   HEARING OFFICER FAY: I'm sorry, can you  
6                   what?

7                   MR. HARRIS: Just read the exhibit  
8                   numbers for the ones that --

9                   HEARING OFFICER FAY: Yes, that's fine.

10                  MR. HARRIS: Okay. Exhibit 3 is  
11                  included; exhibit 5; exhibit 13; exhibit 46;  
12                  exhibit 47.

13                  We have a new item which is responsive  
14                  to CEC data request number 26R, 32R, 238 and 3-214  
15                  set 1G, and that's a new exhibit, and I'd ask that  
16                  it be assigned a number.

17                  HEARING OFFICER FAY: All right, that is  
18                  exhibit 98.

19                  MR. HARRIS: Thank you. Continuing on,  
20                  we have exhibit 27, exhibit 14, exhibit 29. A new  
21                  document entitled responses to CEC informal data  
22                  request regarding cumulative nitrogen deposition  
23                  impact analysis, and ask that that be assigned a  
24                  number.

25                  HEARING OFFICER FAY: Exhibit 99.

1                   MR. HARRIS: Continuing on, we have  
2                   exhibit 16A, exhibit 16B, exhibit 23, exhibit 66,  
3                   exhibit 30, exhibit 40, exhibit 12.

4                   Two more new documents, the biological  
5                   assessment for the Metcalf Energy Center project  
6                   is a new exhibit. I'd ask that be assigned a  
7                   number.

8                   HEARING OFFICER FAY: And we'll assign  
9                   exhibit 100 to that.

10                  MR. HARRIS: And another new document,  
11                  preliminary draft biological resources mitigation  
12                  implementation and monitoring plan for the Metcalf  
13                  Energy Center is a new exhibit.

14                  HEARING OFFICER FAY: And that is  
15                  exhibit 101.

16                  MR. HARRIS: And, Ms. Crowe, I  
17                  understand that there are some additions and  
18                  corrections, is that correct?

19                  MS. CROWE: Yes.

20                  MR. HARRIS: Those additions and  
21                  corrections are as follows: responses to CEC  
22                  informal data request regarding nitrogen  
23                  deposition isopleths is a new exhibit, and I'd ask  
24                  that be assigned a number.

25                  HEARING OFFICER FAY: That is exhibit

1 102.

2 MR. HARRIS: Continuing on, exhibits 51,  
3 exhibit 52A, exhibit 52B. A new item, Metcalf  
4 biological assessment, supplement, is a new  
5 exhibit. I'd ask that be given a number.

6 HEARING OFFICER FAY: That is exhibit  
7 103.

8 MR. HARRIS: Exhibits 80 and exhibit 18.  
9 And, of course, as well the testimony here,  
10 exhibit 95 and exhibit 97.

11 With those changes and corrections, Ms.  
12 Crowe, are there any other changes or corrections  
13 to your testimony?

14 MS. CROWE: No.

15 MR. HARRIS: And were these documents  
16 prepared either by you or at your direction?

17 MS. CROWE: Yes.

18 MR. HARRIS: Are the facts stated  
19 therein true to the best of your knowledge?

20 MS. CROWE: Yes.

21 MR. HARRIS: And are the opinions stated  
22 therein your own?

23 MS. CROWE: Yes.

24 MR. HARRIS: And do you adopt this as  
25 your testimony for this proceeding?

1 MS. CROWE: Yes.

2 MR. HARRIS: Could you briefly summarize  
3 your qualifications for the panel, please?

4 MS. CROWE: I have a bachelors of  
5 science degree in environmental biology and  
6 management from UC Davis. I did my undergraduate  
7 work at American River College. I have 15 years  
8 as a licensed veterinary technician.

9 And the last eight years as a biological  
10 consultant conducting threatened and endangered  
11 species surveys, impact analyses, formal and  
12 informal consultations, biological assessments,  
13 mitigation plans and permitting with the U.S. Fish  
14 and Wildlife Service, California Department of  
15 Fish and Game, National Marine Fishery Service,  
16 the U.S. Army Corps of Engineers, and the  
17 California Water Quality Control Board.

18 I'm very familiar with the California  
19 Energy Commission regulations for certification of  
20 power plants. And I prepared the biological  
21 resource impact analysis for the Sutter Power  
22 Plant and the Delta Energy Center project. Went  
23 through the certification and permitting processes  
24 for those.

25 I'm also the designated biologist for

1 the Sutter Power Plant, the Delta Energy Center  
2 and the Los Medanos Energy Center that are  
3 currently being constructed. And I'm involved in  
4 two other AFCs.

5 MR. HARRIS: Okay, thank you. Let's  
6 turn now to your testimony. I want to start with  
7 the project setting. Can you begin with an  
8 outline of where your testimony's headed?

9 MS. CROWE: I'd like to go through the  
10 impacts from construction and operation by project  
11 feature.

12 MR. HARRIS: And which features are you  
13 going to be looking at?

14 MS. CROWE: The Metcalf site, which  
15 includes the detention pond and storm water  
16 outfall pipe; the electric transmission line; the  
17 natural gas pipeline; the domestic water pipeline;  
18 and the recycled water pipeline.

19 MR. HARRIS: So you'll be going through  
20 each of those features and discussing impacts and  
21 mitigation?

22 MS. CROWE: Yes.

23 MR. HARRIS: Let's start with the first  
24 one, of course, the Metcalf Energy site. Can you  
25 begin there, please?

1 MS. CROWE: Okay, and I have a map that  
2 is taken out of the biological resource mitigation  
3 and implementation plan that Steve is passing out  
4 now. And this is an enlargement of that same  
5 figure.

6 HEARING OFFICER FAY: Does that plan  
7 have an exhibit number, Mr. Harris?

8 MR. HARRIS: Yes, it does. It's the  
9 draft biological -- it's a new exhibit 101.

10 HEARING OFFICER FAY: Thank you.

11 MR. HARRIS: It's from exhibit 101.

12 MS. CROWE: And the aerial photograph  
13 behind it, it's just an enlargement of the area.

14 This is the site --

15 HEARING OFFICER FAY: And, Ms. Crowe, as  
16 you describe things, please keep in mind not just  
17 the audience here, but the transcript, which Mr.  
18 Valkosky will be reading without the benefit of  
19 seeing what you're doing.

20 MS. CROWE: Okay.

21 HEARING OFFICER FAY: So, if you could  
22 say things like to the left, right, north, south,  
23 that type of thing. Or put a reference in terms  
24 of the pictures.

25 MS. CROWE: Okay.

1 HEARING OFFICER FAY: He needs a  
2 reference.

3 MS. CROWE: The Metcalf site is pretty  
4 much in the middle of this photograph at this  
5 point. The Monterey Road and Union Pacific  
6 Railroad is immediately north of the site and  
7 east. And U.S. 101 is north of that. PG&E  
8 switchyard is located right here north of the  
9 site, or east of the site, and Metcalf Road.

10 The site, itself, will result in a loss  
11 of seven acres of elderberry savanna and about  
12 seven acres of agricultural land.

13 MR. AJLOUNY: Excuse me, can we move  
14 that map over here, and that way we can follow  
15 along.

16 HEARING OFFICER FAY: You can't see the  
17 map?

18 MR. AJLOUNY: No. The witnesses are  
19 just -- we can't see --

20 HEARING OFFICER FAY: Okay, if the  
21 witnesses could slide back so everybody can see.  
22 Can everybody clearly see the map? And does  
23 everybody have a copy of it? All right, thank  
24 you.

25 MS. CROWE: Again, seven acres of

1 elderberry savanna on the site, highly disturbed;  
2 some cattle grazing; junkyard; roosters, et  
3 cetera. And the seven acres of agricultural land  
4 in this area would be for the access road and  
5 landscape corridor.

6 HEARING OFFICER FAY: And this area is  
7 to the east of the site, is that correct?

8 MS. CROWE: Immediately south.

9 HEARING OFFICER FAY: South, all right.

10 MS. CROWE: Approximately 80 trees on  
11 the site would be removed, and 59 of those would  
12 be County ordinance size trees; and 53 of them  
13 would be City ordinance.

14 These trees would be mitigated, the loss  
15 of the trees would be mitigated at four-to-one for  
16 trees greater than 18 inches in diameter; three-  
17 to-one for trees greater than 12 inches in  
18 diameter; two-to-one for anything smaller than 12  
19 inches.

20 Mitigation would result in planting 320  
21 trees for the loss of the 59 trees. And these  
22 trees -- seeds for these trees were collected from  
23 the Santa Clara Valley watershed, and the trees  
24 are native to that area.

25 Including the landscape trees, there

1 will be about 800 to 900 trees planted for the  
2 project.

3 MR. HARRIS: Debra, can you talk now  
4 about the setback area in the riparian corridor?

5 MS. CROWE: Originally in the AFC we had  
6 a 65-foot setback from the riparian corridor. The  
7 riparian corridor is identified as the top of bank  
8 in areas where there's no riparian vegetation, and  
9 the dripline, outer dripline of the riparian  
10 trees. Now we have a 100-foot setback from the  
11 riparian corridor.

12 MR. HARRIS: So those are two distinct  
13 things then, the riparian setback and the riparian  
14 corridor. Can you draw that distinction out for  
15 us, please.

16 MS. CROWE: The riparian corridor is the  
17 top of -- the boundary of the riparian corridor  
18 would be the top of bank where there's no  
19 vegetation or the outer dripline of riparian  
20 trees.

21 MR. HARRIS: And then the setback area  
22 is taken off of that outside edge?

23 MS. CROWE: And the setback is outside  
24 that riparian corridor.

25 MR. HARRIS: Thank you.

1 MS. CROWE: There's no construction  
2 proposed for inside the riparian corridor, itself.  
3 There will be temporary construction disturbance  
4 in the setback from constructing the footprint,  
5 and then also from planting the riparian trees.

6 The enhancement of the riparian corridor  
7 is expected to increase the available habitat for  
8 travel between Coyote Creek and the Santa Teresa  
9 hills for wildlife.

10 MR. HARRIS: In terms of riparian  
11 habitat, before and after the project, what will  
12 that look like?

13 MS. CROWE: Before the project we have  
14 about 4.3 acres of riparian habitat. After the  
15 project is constructed and the riparian plantings  
16 are finished, it will be about eight -- double it  
17 to 8.6 acres.

18 MR. HARRIS: So essentially with the  
19 improvements doubling the amount of riparian  
20 habitat?

21 MS. CROWE: Yes.

22 MR. HARRIS: I want to go on to another  
23 issue that's gotten a lot of attention, and that's  
24 been the noise issue. Can you, from a biological  
25 perspective, give us your view of the issue of

1 noise in the riparian corridor.

2 MS. CROWE: Currently the background  
3 noise on the site is 58 decibels. And with  
4 frequent peaks of 70 decibels with the railroad.

5 The Metcalf project would have noise  
6 levels of between 55 to 60 decibels in the  
7 riparian corridor. Impacts to wildlife from  
8 continuous noise really starts about 80 decibels  
9 and above.

10 Construction, though, will have  
11 temporary construction noise of 75 to 90 decibels.  
12 And this could temporarily displace nesting birds  
13 in that area.

14 MR. HARRIS: Okay, you went through a  
15 lot of numbers and dba's, so I want to make sure  
16 that we've got them all correct. What will be the  
17 steady state noise from the Metcalf Energy Center,  
18 in db's?

19 MS. CROWE: Between 55 and 60, the  
20 riparian corridor.

21 MR. HARRIS: And biologically the area  
22 of concern is about 80 db, is that right?

23 MS. CROWE: That's right, when it get to  
24 be about 80 --

25 MR. HARRIS: So we're about 20 below

1           that?

2                   MS. CROWE: For continuous noise, right.

3                   MR. HARRIS: For continuous noise. Are  
4 sharp noises sometimes more injuring or more, I  
5 guess, disturbing for biological resources?

6                   MS. CROWE: Yes. Sudden loud noises  
7 associated with movement, also, is very --

8                   MR. HARRIS: So both noise spike and  
9 movement are of concern from a biological  
10 perspective?

11                   MS. CROWE: Yes.

12                   MR. HARRIS: So things like the train  
13 has both noise and movement associated with that.

14                   MS. CROWE: (Affirmative head nod.)

15                   MR. HARRIS: Okay, thank you.

16                   HEARING OFFICER FAY: Is that --

17                   MS. CROWE: Yes.

18                   MR. HARRIS: I want to go now to the  
19 issue of the County ordinance and the setback.  
20 Can you provide us a summary of your testimony on  
21 that issue?

22                   MS. CROWE: The County ordinance for  
23 setbacks riparian corridors is 100 feet for  
24 manmade or highly modified streams, and 150 feet  
25 for natural streams.

1                   Fisher Creek in the area of the project  
2                   site is highly modified with a manmade levee, so  
3                   the 100-foot setback would apply in this case.

4                   MR. HARRIS:    So the 150-foot setback for  
5                   the County applies only to natural streams, is  
6                   that correct?

7                   MS. CROWE:    Natural state, yeah.

8                   MR. HARRIS:    Okay, and Fisher Creek is  
9                   actually a drainage, is that correct?

10                  MS. CROWE:    Yes.

11                  MR. HARRIS:    Okay. In terms of  
12                  mitigation, what are you looking at for the site,  
13                  itself?

14                  MS. CROWE:    For the site we are going to  
15                  be replacing the trees.

16                  MR. HARRIS:    What other kind of  
17                  mitigation are you proposing?

18                  MS. CROWE:    For potential salamander  
19                  aestivation habitat within the riparian corridor  
20                  we're going to be providing burrow probes in that  
21                  area before any ground disturbance, to determine  
22                  whether there are salamanders or even frogs in the  
23                  burrows along the riparian corridor. And then  
24                  relocate those.

25                  MR. HARRIS:    It would be using fencing,

1 as well?

2 MS. CROWE: And we'll be fencing off the  
3 riparian corridor from cattle for water quality  
4 purposes.

5 MR. HARRIS: Okay, thank you. In terms  
6 of your agency permits for the site, which permits  
7 are at issue here?

8 MS. CROWE: For the storm water outfall  
9 we will be required to get a 404 permit from the  
10 Army Corps of Engineers; a streambed alteration  
11 agreement from the California Fish and Game; a 401  
12 water quality certification from the Water Quality  
13 Control Board; and an encroachment permit from the  
14 Santa Clara Valley Water District for constructing  
15 and also planting trees within 50 feet of the  
16 Fisher Creek.

17 MR. HARRIS: Thank you. Let's move now  
18 to the next project feature and the impacts and  
19 the mitigation. Can we talk about the  
20 transmission line?

21 MS. CROWE: The transmission line will  
22 come off the site and go north directly to a PG&E  
23 tower that is already there; it's 240 feet long.

24 MR. HARRIS: You're indicating the base  
25 of Tulare Hill, right across Fisher Creek, is that

1 correct?

2 MS. CROWE: Exactly, yes.

3 MR. HARRIS: And how long is that line?

4 MS. CROWE: 240 feet, and that's one of  
5 the reasons the site was chosen, was for the short  
6 transmission line and short gas line.

7 MR. HARRIS: So there are no new towers  
8 associated with that?

9 MS. CROWE: No.

10 MR. HARRIS: Talk about the construction  
11 impacts for the transmission line, if you will.

12 MS. CROWE: ON the part of Tulare Hill  
13 the construction will occur at the base of that  
14 one tower. No grading or ground disturbance will  
15 occur at that point. It would just be vehicle  
16 access.

17 Construction would be conducted during  
18 the summertime when the Bay Checkerspot butterfly  
19 adults are not present. And erosion control and  
20 compaction measures will be used there.

21 MR. HARRIS: And you'll also have a  
22 designated biologist on site, is that correct?

23 MS. CROWE: Yes, for construction in all  
24 sensitive areas there will be a biologist on site.

25 MR. HARRIS: Let's talk now about

1 operational issues associated with the  
2 transmission line.

3 MS. CROWE: Once the transmission line  
4 is up there is potential for slight increase in  
5 avian collisions with the transmission line going  
6 over the riparian corridor. However, it's a very  
7 short line so few, if any, impacts.

8 MR. HARRIS: In terms of permits for the  
9 transmission line, what are you dealing with  
10 there?

11 MS. CROWE: For the transmission line we  
12 would need a biological opinion from the U.S. Fish  
13 and Wildlife Service for any potential impacts on  
14 the serpentine habitat.

15 MR. HARRIS: Okay, thank you. I want to  
16 move now to the next project feature which is the  
17 natural gas pipeline. Can you take us through  
18 where that line goes, and also discuss the impacts  
19 and the mitigation we're talking about for the  
20 gasline.

21 MS. CROWE: Okay, the gasline would come  
22 off of the southeast corner of the site through  
23 agricultural land and be an open cut trench in  
24 that area.

25 MR. HARRIS: Along the access road?

1 MS. CROWE: Along the access road and  
2 west of the railroad tracks, adjacent to them.

3 A directional drill pad would be set up  
4 at this location, and the horizontal directional  
5 drill would go underneath the railroad tracks,  
6 Monterey Road and Coyote Creek, and come up  
7 approximately 500 feet, at least 500 feet away  
8 from the riparian corridor of Coyote Creek.

9 It will then be open trench through the  
10 Coyote Creek Road, and up to the Highway 101,  
11 where again a horizontal directional drill will be  
12 used to go underneath the highway and then connect  
13 into PG&E's line 300 east of Highway 101.

14 There will be a gas metering station at  
15 that point and I think that's .06 acres.

16 MR. HARRIS: Okay, so that's the basic  
17 route and construction. You mentioned the HDD,  
18 the horizontal directional drilling.

19 Can you talk briefly about the potential  
20 impacts related to that and what you've done for  
21 mitigation for the HDD.

22 MS. CROWE: For horizontal directional  
23 drill there is the potential for drilling mud to  
24 escape through cracks in the soil and enter the  
25 waterway. The drills are normally very deep and

1            hopefully that won't happen.

2                            But if what's called a frac-out occurs,  
3            we have contingency plan developed to stop  
4            drilling and contain it and clean it up. Also --

5                            MR. HARRIS: What time of year would you  
6            be doing this HDD?

7                            MS. CROWE: The directional drill would  
8            be done in the summertime when salmon and  
9            steelhead are not expected to be in Coyote Creek.  
10           And water flows would be really low at that time.

11                           MR. HARRIS: And the bentonite clay that  
12           is used, can you describe that. Is that a concern  
13           biologically?

14                           MS. CROWE: It is only a concern for  
15           smothering invertebrates, but is nontoxic.

16                           MR. HARRIS: So basically it's a clay  
17           substance and it is nontoxic?

18                           MS. CROWE: Yes.

19                           MR. HARRIS: Okay. In terms of permits  
20           that will be required for the natural gas  
21           pipeline, what's the scope of that?

22                           MS. CROWE: We will need to get a  
23           streambed alteration agreement from California  
24           Fish and Game to go underneath Coyote Creek.  
25           We'll also need a biological opinion from National

1 Marine Fishery Service which we have already  
2 received. And then a biological opinion from the  
3 U.S. Fish and Wildlife Service for red-legged  
4 frog.

5 MR. HARRIS: Okay, thank you. I want to  
6 move now to the next project feature you gave in  
7 your overview. You talked about the domestic  
8 waterline. Can you walk us through that  
9 particular feature of the project?

10 MS. CROWE: The domestic waterline would  
11 start at the southern part of the site and follow  
12 the west side of the Union Pacific Railroad tracks  
13 within agricultural land. And there are no  
14 special status species along there that would have  
15 impacts.

16 MR. HARRIS: So are you expecting any  
17 construction impacts associated with this?

18 MS. CROWE: No.

19 MR. HARRIS: And how about any  
20 operational impacts?

21 MS. CROWE: No.

22 MR. HARRIS: Thank you. Let's move to  
23 the recycled waterline, can you describe that  
24 feature for us, please.

25 MS. CROWE: In the AFC the recycled

1 waterline was proposed to go down Monterey Road.  
2 However, there were many Keesling walnut trees  
3 there that could have been adversely affected. So  
4 now the recycled waterline goes southwest from the  
5 site through agricultural land over to Santa  
6 Teresa Boulevard, and then up through city streets  
7 and ties into the South Bay Water Recycling.

8 MR. HARRIS: In terms of construction  
9 impacts, are you expecting any?

10 MS. CROWE: No.

11 MR. HARRIS: And how about operational  
12 impacts?

13 MS. CROWE: No, the discharge of water  
14 back to the South Bay Recycle will be discharged  
15 to the Bay through their NPDES permit.

16 MR. HARRIS: I want to talk about a  
17 couple additional permits that are required for  
18 the project.

19 You'd mentioned the biological opinion.  
20 Can you give us a brief overview of that?

21 MS. CROWE: The biological opinion will  
22 be needed for all of the construction impacts on  
23 special status species and especially for the Bay  
24 Checkerspot butterfly from NOx impacts.

25 MR. HARRIS: And I understand Dr Weiss

1 will be testifying to the NOx deposition issues,  
2 so --

3 MS. CROWE: Yes.

4 MR. HARRIS: -- we'll save that for him,  
5 how's that?

6 MS. CROWE: Great.

7 MR. HARRIS: I want to move to the issue  
8 of LORS compliance now. Did you do an assessment  
9 of the project's compliance with what we call  
10 LORS, of course, laws, ordinances, regulations and  
11 standards?

12 MS. CROWE: Yes.

13 MR. HARRIS: And what determination did  
14 you make?

15 MS. CROWE: That all the LORS were in  
16 compliance.

17 MR. HARRIS: The project is in  
18 compliance with the applicable LORS?

19 MS. CROWE: Yes.

20 PRESIDING MEMBER LAURIE: Excuse me, Mr.  
21 Harris, is your question relating to the subject  
22 matter to which this witness is testifying?

23 MR. HARRIS: Yes.

24 PRESIDING MEMBER LAURIE: Can you re-ask  
25 her the question, please.

1 MR. HARRIS: Okay, --

2 PRESIDING MEMBER LAURIE: Because your  
3 question was is the project in compliance with  
4 LORS.

5 MR. HARRIS: Right, applicable  
6 biological LORS, as identified in the final staff  
7 assessment.

8 PRESIDING MEMBER LAURIE: Okay, thank  
9 you.

10 MS. CROWE: And the project --

11 MR. HARRIS: Let's put it that way.

12 MS. CROWE: -- is in compliance with  
13 applicable LORS for biology.

14 PRESIDING MEMBER LAURIE: Thank you.

15 MR. HARRIS: Okay, thank you. And I  
16 want to turn now to conditions of certification.  
17 You've had a chance to review the conditions of  
18 certification?

19 MS. CROWE: Yes.

20 MR. HARRIS: And do you find those to be  
21 acceptable?

22 MS. CROWE: Yes.

23 MR. HARRIS: Can you provide us with a  
24 real brief summary of the bottomlines of your  
25 testimony, please.

1 MS. CROWE: The project does not result  
2 in impacts that would jeopardize the continued  
3 existence of any listed species. And there's no  
4 loss of serpentine habitat or other special status  
5 species habitat.

6 Second, the project sets precedents for  
7 mitigation and preserving proposed critical  
8 habitat for the Bay Checkerspot butterfly, and  
9 other serpentine endemic species from NOx impacts.

10 Third, it establishes a management  
11 strategy that maintains and enhances serpentine  
12 habitat on portions of Tulare Hill and Coyote  
13 Ridge which has proposed critical habitat that  
14 would not otherwise be in place.

15 And, fourth, the project meets the City  
16 and County riparian corridor policies and  
17 increases riparian habitat along Fisher Creek.

18 MR. HARRIS: Thank you, Ms. Crowe. I'd  
19 like to move now to Dr. Weiss, who is the expert  
20 for the group on the issue of the Bay Checkerspot  
21 butterfly. But, we'll begin at the beginning.

22 Dr. Weiss, would you state your name and  
23 spell it, please.

24 DR. WEISS: Stuart Weiss, S-t-u-a-r-t  
25 W-e-i-s-s.

1                   MR. HARRIS: And could you summarize for  
2 the Committee, please, your qualifications.

3                   DR. WEISS: My education, I have a  
4 doctorate in biological sciences from Stanford,  
5 received in 1996. Prior to and after my doctoral  
6 work I was in the research staff of the Center for  
7 Conservation Biology.

8                   I'm the author or coauthor of more than  
9 25 peer-reviewed scientific papers, 15 of which  
10 deal with the ecology and conservation of the Bay  
11 Checkerspot butterfly and the serpentine  
12 ecosystem.

13                   Currently my professional status, I'm a  
14 freelance consulting ecologist, and I work for  
15 environmental groups, industry, academics and  
16 government. And my role is to provide the best  
17 available scientific information for decision  
18 making.

19                   And I've authored or coauthored dozens  
20 of technical reports.

21                   MR. HARRIS: Is it fair to say that  
22 you're the recognized expert on the Bay  
23 Checkerspot butterfly?

24                   DR. WEISS: Yeah. I've been working on  
25 the butterfly since 1979, in the South Bay in

1 particular since 1984. And I wrote the paper that  
2 identified nitrogen deposition as a threat to the  
3 butterfly. That's included in the technical  
4 documents.

5 MR. HARRIS: And you mentioned you had,  
6 I think, 15 papers on this issue?

7 DR. WEISS: Yeah, 15 papers.

8 MR. HARRIS: And those are all peer-  
9 reviewed scientific documents?

10 DR. WEISS: Yes.

11 MR. HARRIS: Okay, thank you. I want  
12 you to help us understand the relationship between  
13 nitrogen deposition and plant fertilization and  
14 the butterfly. So let's walk through some of  
15 that.

16 Can you describe nitrogen deposition and  
17 its relation to the plant fertilization, please.

18 DR. WEISS: Nitrogenous air pollutants,  
19 nitrogen oxides, nitric acid vapor, particulate  
20 nitrite and ammonium, and ammonia undergo a  
21 process called dry deposition on all surfaces.

22 In the South Bay we estimate that the  
23 amount of dry deposition from existing smog levels  
24 are about 7.5 pounds of nitrogen per acre per  
25 year, which is the equivalent of dumping a couple

1 of bags of standard fertilizer bags on every acre  
2 of the habitat every year. So it's effectively  
3 fertilizing the soils and the plants.

4 Now, under such fertilization the  
5 nutrient-poor, very harsh conditions typical of  
6 serpentine soils are ameliorated. Scientific  
7 studies have shown that nitrogen is the limiting  
8 nutrient in these grasslands.

9 So, under those conditions, introduced  
10 grasses -- introduce annual grasses can rapidly  
11 invade and crowd out the native larval host plants  
12 and adult nectar sources of the Bay Checkerspot  
13 butterfly.

14 So, when --

15 MR. HARRIS: Let me ask you a couple  
16 questions, because you went through a lot of stuff  
17 and I want to make sure we all make the linkages  
18 here.

19 So, nitrogen deposition, as you  
20 described it, essentially is fertilization of the  
21 land, is that right?

22 DR. WEISS: Right.

23 MR. HARRIS: And we're concerned about  
24 serpentine soils here, is that correct?

25 DR. WEISS: Right, very nutrient poor

1 soils.

2 MR. HARRIS: So, very nutrient poor  
3 meaning very few plants. When you add the  
4 nitrogen, essentially the fertilizer, that allows  
5 nonnative grasses to grow?

6 DR. WEISS: Right. Normally serpentine  
7 soils are very resistant to invasion by nonnative  
8 grasses. But when you dump fertilizer on them,  
9 they can be rapidly invaded.

10 MR. HARRIS: So in a sense what happens  
11 is that the fertilization allows those nonnative  
12 plants to crowd out the native plants?

13 DR. WEISS: Yeah, it's a very dramatic  
14 effect in the South Bay.

15 MR. HARRIS: And please explain, again,  
16 the linkage between the native plants, the ones  
17 who get crowded out, and the butterfly.

18 DR. WEISS: Okay, right. The Bay  
19 Checkerspot butterfly, as a caterpillar, only  
20 feeds on two or three species of plants out there,  
21 very low growing, and they get crowded out by the  
22 grasses.

23 They also get nectar, as adults, from a  
24 pretty broad variety of native wildflowers, but  
25 those wildflowers are also very short growing and

1 get crowded out by the grasses.

2 MR. HARRIS: So basically we have a  
3 situation here were the fertilization crowds out  
4 the plants that the butterflies depend upon?

5 DR. WEISS: Right, and we see a rapid  
6 decline in habitat quality.

7 MR. HARRIS: How do you keep such a, I  
8 guess a nonnative grass invasion in check, so that  
9 the native grasses are there for the butterflies?

10 DR. WEISS: Right. Well, what we've  
11 seen in the South Bay is that moderate, well  
12 managed cattle grazing works very well to keep the  
13 introduced grasses down.

14 We've seen on every site where cattle  
15 have been fenced off, out of the land, where  
16 cattle grazing has been removed, within a few  
17 years a very dense growth of grass invades, and  
18 the host plants and nectar sources for the  
19 butterfly are crowded out.

20 And we've lost some very substantial  
21 populations of tens of thousands of Bay  
22 Checkerspot butterflies in the Silver Creek Hills  
23 to the removal of cattle grazing.

24 MR. HARRIS: And I want to emphasize  
25 that point, because it's kind of counterintuitive.

1           So the cattle grazing here is important because it  
2           takes care of the grasses that are crowding out --

3                     DR. WEISS: Right. The cattle are out  
4           there. They selectively go after these introduced  
5           grasses because cattle like nitrogen-rich grasses.  
6           So they basically crop the introduced grasses and  
7           keep the habitat very open and allow the host  
8           plants and nectar sources and other native  
9           wildflowers to persist in the habitat.

10                    MR. HARRIS: Okay, thank you for  
11           explaining the linkage between the nitrogen and  
12           the butterfly, and then the cattle.

13                    PRESIDING MEMBER LAURIE: Mr. Harris,  
14           unless it's going to mess you up, I'd like to ask  
15           your witness a question at this point.

16                    MR. HARRIS: I'll try not to be messed  
17           up. So, go ahead, please.

18                    PRESIDING MEMBER LAURIE: When you have  
19           any species that is sustained by a given source,  
20           what happens when that source is no longer  
21           available? If I grow up on burgers and the burger  
22           joint on the corner closes, I have a choice. I  
23           can either go to where the next burger joint is,  
24           or I can switch to broccoli.

25                    What do species such as the butterfly at

1 issue do?

2 DR. WEISS: Well, they can't eat other  
3 plants.

4 PRESIDING MEMBER LAURIE: They cannot?

5 DR. WEISS: They cannot eat other  
6 plants, so when you remove their larval host  
7 plants and adult nectar sources the population  
8 will go extinct. And there's a very limited area  
9 of serpentine soils in the South Bay, and there's  
10 really nowhere else for them to go.

11 PRESIDING MEMBER LAURIE: And so their  
12 systems cannot adjust over a period of time to a  
13 new food source?

14 DR. WEISS: No, no, not in the system at  
15 all.

16 PRESIDING MEMBER LAURIE: Is that unique  
17 for insects?

18 DR. WEISS: Most insects that feed on  
19 plants are very host specific. And one of the  
20 basic principles of butterfly conservation  
21 biology, for example, is that you need to maintain  
22 larval host plants, caterpillar food, and adult  
23 nectar sources.

24 PRESIDING MEMBER LAURIE: Very helpful,  
25 thank you, sir. Thank you, Mr. Harris.

1                   MR. HARRIS: Thank you. Actually that's  
2 a good segue because I want to move now to the  
3 impacts associated with the Metcalf project. Can  
4 you talk a little about those impacts.

5                   DR. WEISS: Well, the proposed Metcalf  
6 Energy Center is going to add substantial NOx and  
7 ammonia to the local atmosphere which is already  
8 rather polluted with smog. And it's going to  
9 incrementally increase nitrogen deposition on  
10 serpentine habitats downwind.

11                   The quantitative estimates of background  
12 nitrogen deposition levels and the increases from  
13 the MEC operations are provided in the technical  
14 documents associated with this testimony and in  
15 the biological --

16                   MR. HARRIS: Thank you. So we're  
17 talking about the incremental addition by Metcalf  
18 to the background. What's the order of magnitude  
19 there of the incremental addition to the  
20 background?

21                   DR. WEISS: We have a background of  
22 about 7.5 pounds per acre. And the incremental  
23 increase would be areas closest to the plant are  
24 on the order of an additional half pound to a  
25 pound per acre, right on Tulare Hill. And then

1 along Coyote Ridge we're talking about, you know,  
2 quarter pound to a tenth of a pound. So it's an  
3 incremental impact.

4 MR. HARRIS: Okay, so in addition to the  
5 background?

6 DR. WEISS: Right.

7 MR. HARRIS: What's the proposed  
8 mitigation plan for the Metcalf project?

9 DR. WEISS: Well, the mitigation plan  
10 was developed using a formula that first  
11 conservatively estimated the incremental increase  
12 from Metcalf Energy Center operations across the  
13 nearby serpentine habitats, and by conservative I  
14 mean an over-estimate of the amount of nitrogen  
15 deposition that the plant would cause. And the  
16 details of that, Greg Darvin can go into details  
17 on that. And it's also in the report.

18 And then we compared that with the  
19 background deposition in order to establish what  
20 the increment was, and used a formula that was  
21 developed by Energy Commission Staff and Fish and  
22 Wildlife Service to establish a total acreage to  
23 be preserved and managed in perpetuity.

24 MR. HARRIS: And what was that final  
25 mitigation proposal developed?

1 DR. WEISS: Final mitigation came out to  
2 131 acres of serpentine habitat, 116 acres on  
3 Tulare Hill, and 15 acres up on Coyote Ridge.

4 MR. HARRIS: Okay, so we've got two  
5 locations there, and the details of the  
6 calculations are in the technical documents, but  
7 you have Tulare Hill and 15 acres on Coyote Ridge.

8 Let's talk about Tulare Hill as habitat.  
9 Can you give us your opinion of that?

10 DR. WEISS: Okay. Tulare Hill has only  
11 been intermittently occupied by the Bay  
12 Checkerspot butterfly, but it's still identified  
13 as critical habitat by the U.S. Fish and Wildlife  
14 Service, both for its intrinsic value and its  
15 value as a corridor connecting extensive habitats  
16 to the east on Coyote Ridge and west in the Santa  
17 Teresa hills.

18 MR. HARRIS: And how can a management  
19 plan affect the quality of the habitat on Tulare  
20 Hill?

21 DR. WEISS: Well, we think long-term  
22 management can improve the habitat on Tulare Hill  
23 for both the Bay Checkerspot butterfly and a lot  
24 of other rare species.

25 Right now it appears that the levels of

1 grazing up there are actually too high for optimal  
2 habitat conditions.

3 MR. HARRIS: So, in addition to  
4 improving that habitat, Tulare Hill will be a  
5 connecting corridor, is that right?

6 DR. WEISS: Yes.

7 MR. HARRIS: Okay. Let's move to the  
8 second area, than, talking about 15 acres on  
9 Coyote Ridge, which is to the east of the project.  
10 Can you talk about the Coyote Ridge property?

11 DR. WEISS: Yeah, these 15 acres occupy  
12 a very strategic location on the boundary of a  
13 proposed landfill expansion of the Kirby Canyon  
14 landfill, so it sets a hard border against the  
15 proposed expansion.

16 It's also adjacent to about 100 acres of  
17 mitigation land set aside for red-legged frog and  
18 Dudlias Achillea, the Santa Clara Valley dudlia.  
19 And it's also right in the middle of the core  
20 habitat of the Bay Checkerspot butterfly.

21 These lands were occupied by Bay  
22 Checkerspot adults in the year 2000; and they're  
23 currently occupied by Bay Checkerspot  
24 caterpillars. I just found some out there last  
25 month.

1                   And both of these properties are going  
2                   to be protected in perpetuity under conservation  
3                   easements and fee title transfers. And it's going  
4                   to have a substantial management endowment, so  
5                   that we can monitor and undergo adaptive  
6                   management on the sites.

7                   MR. HARRIS: Taking into consideration  
8                   the mitigation packages you talked about in your  
9                   testimony, is the proposed mitigation protective  
10                  of the biological resources?

11                  DR. WEISS: Yeah, in addition to the  
12                  fact that we're starting to piece together a  
13                  reserve system adding 131 acres to permanent  
14                  protection of the serpentine ecosystem which very  
15                  little is protected right now.

16                  The proposal really provides a  
17                  qualitative lead as a precedent for addressing  
18                  this nitrogen deposition issue and its impacts on  
19                  the serpentine ecosystem.

20                  But what the formula is designed to  
21                  mitigate only for incremental impacts, so that any  
22                  project doesn't get stuck with the fact that  
23                  there's 42,000 tons of NOx being produced in Santa  
24                  Clara County. But we're trying to come up with a  
25                  formula that is fair to applicants and fair to the

1 butterfly so that the incremental impacts are  
2 dealt with.

3 MR. HARRIS: So, again, though, your  
4 bottomline opinion, you believe this is a very  
5 protective scheme we've put together?

6 DR. WEISS: Yes, I think so.

7 MR. HARRIS: How would you characterize  
8 your interactions with the Calpine/Bechtel team  
9 and the other members of the team that developed  
10 this plan?

11 DR. WEISS: Well, Calpine/Bechtel  
12 willingly addressed a complex and admittedly novel  
13 environmental impact that's supported by the best  
14 available scientific information.

15 And there was a real honest, open  
16 working atmosphere in our informal meetings with  
17 U.S. Fish and Wildlife Service and California  
18 Energy Commission and technical consultants by  
19 myself as very much a problem-solving atmosphere.

20 And instead of trying to deny or  
21 minimize their impacts based on inherent  
22 uncertainties in the nitrogen deposition modeling,  
23 we went ahead and came up with a conservative,  
24 over-estimation of what the impacts would be, so  
25 that the uncertainties in this case were actually

1 working in favor of the environment for a change.

2 MR. HARRIS: Bottomline, in your  
3 professional opinion is this a good mitigation  
4 proposal?

5 DR. WEISS: Yeah, I think it establishes  
6 an excellent precedent for protection of the  
7 species from the nitrogen deposition impacts,  
8 especially if it's applied to other projects of  
9 similar magnitude in the area.

10 MR. HARRIS: Thank you. I want to turn  
11 now to our other two witnesses and have them  
12 briefly introduce themselves and their  
13 qualifications. And they'll be available for  
14 cross-examination.

15 So I'd like to turn now to Mr. Darvin.  
16 Greg, could you state your name for the record and  
17 spell it, please.

18 MR. DARVIN: Greg Darvin, G-r-e-g  
19 D-a-r-v, as in victor, -i-n.

20 MR. HARRIS: And, Mr. Darvin, can you  
21 give us a summary of your professional  
22 qualifications.

23 MR. DARVIN: I'm a masters candidate in  
24 atmospheric science. I have a bachelors degree in  
25 physical geography. I've been practicing

1 meteorology and dispersion modeling over the last  
2 15 years.

3 I've been involved in roughly five to  
4 six AFCs and in numerous power plant projects, gas  
5 plant, refinery applications and other modeling  
6 applications across the United States and  
7 including Alaska and Hawaii.

8 I also provide meteorological  
9 assessments for programming for providing or  
10 trying to update various types of models to  
11 improve their performance.

12 MR. HARRIS: And what was your task for  
13 the Metcalf team?

14 MR. DARVIN: I was to develop, in  
15 conjunction with the biologists, a conservative  
16 modeling methodology for assessing potential  
17 nitrate deposition from Metcalf.

18 MR. HARRIS: And you developed that  
19 model in support of the biologists, is that  
20 correct?

21 MR. DARVIN: I developed the assumptions  
22 that went into the model, yes.

23 MR. HARRIS: Okay. Thank you. Our last  
24 witness is Dr. Mark Jennings. And, Mark, could  
25 you state your name and spell it, please.

1 DR. JENNINGS: Mark Jennings, that's  
2 M-a-r-k J-e-n-n-i-n-g-s.

3 MR. HARRIS: And, Mark, can you give us  
4 a little bit of your professional background and  
5 qualifications, please.

6 DR. JENNINGS: Yes, I received a  
7 bachelor in science in fisheries from Humboldt  
8 State University in 1978. Received a masters  
9 degree in natural resources with emphasis in  
10 fisheries at Humboldt State University in 1981.  
11 And I received a PhD in wildlife and fishery  
12 science from the University of Arizona in 1986.

13 I've been a world class herpetologist  
14 for the last 21 years, studying lots of critters  
15 in California, basically amphibians and reptiles,  
16 but also fishes. I've served as an Adjunct  
17 Professor at the University of California at Santa  
18 Barbara since 1993. I've served as a Research  
19 Associate with the Department of Herpetology,  
20 California Academy of Sciences in San Francisco  
21 since 1987.

22 I currently have appointments at UC  
23 Davis. I'm also President of Rana Resources,  
24 which is a biological consulting company that does  
25 biologic surveys on fishes, amphibians and

1 reptiles. And also research in those species.

2 I've been noted by my colleagues for  
3 awards in conservation in herpetology, Southwest  
4 Herpetologists Society. Also Society for the  
5 Study of Amphibians and Reptiles. I've also  
6 received awards for my research by the U.S. Fish  
7 and Wildlife Service, and local and state  
8 chapters, as well.

9 Appeared many times on public television  
10 talking about declining amphibians, especially  
11 red-legged frogs, including CBS Evening News with  
12 Dan Rather, CNN, National Public Radio. My  
13 research has even made it into "Newsweek" as a  
14 popular topic.

15 I just want to say that I've had  
16 extensive research with these animals. I often am  
17 contacted for my opinions on what I think about  
18 red-legged frogs, et cetera. And I find my  
19 research has been used all over the world.

20 MR. HARRIS: Thank you. Red-legged  
21 frogs you mentioned is one of your specialties.  
22 What was your task for the Metcalf team? What  
23 species did you look at?

24 DR. JENNINGS: My charge was to look at  
25 the fishes that would inhabit Fisher Creek, and

1           also do protocol surveys for California red-legged  
2           frogs, California tiger salamanders, and then  
3           there are no protocol surveys, but I also looked  
4           for western pond turtles.

5                         MR. HARRIS: Thank you very much.  
6           Before I make the witnesses available for cross-  
7           examination, I wanted to note that we do have now  
8           copies of exhibit 97. Mr. Ajlouny has his copy.  
9           And we'll make those available to everyone else,  
10          as well.

11                        And with that, I will, I think, make the  
12          witnesses available for cross-examination. I'll  
13          move my documents in at the end, I guess, not now.

14                        HEARING OFFICER FAY: All right, fine.  
15          Does staff wish to cross-examine the panel?

16                        MS. WILLIS: We have no questions.

17                        HEARING OFFICER FAY: All right, then  
18          City of San Jose.

19                        MS. DENT: I have a few questions, thank  
20          you. I'm going to let the panel know what the  
21          areas of my questions are going to be in advance.  
22          Commissioner Laurie asked us to do that at one of  
23          the previous hearings, so I'll do that.

24                        The first area of questioning I just  
25          want to clarify some of the survey information and

1           what was and wasn't surveyed and when it was  
2           surveyed, because it wasn't clear to me in reading  
3           through the testimony. It may be in some of the  
4           background documents, but I want to clarify that.

5                        The second area that I want to get some  
6           information on is noise, specifically noise on  
7           Coyote Creek and noise in Fisher Creek.

8                        And the third area that I want to ask  
9           the witnesses some questions about is the  
10          serpentine mitigation, and how that calculation  
11          was done.

12                       So I'll start with what I think is  
13          probably the easiest area first, on the surveys.

14                                       CROSS-EXAMINATION

15          BY MS. DENT:

16                        Q       My first question is for the waterline.  
17          It sounded like you did not survey, do any  
18          surveying for the waterline beyond the connection  
19          there at Santa Teresa Boulevard. That there was  
20          no surveying for the waterline that does not yet  
21          exist, the South Bay Water Recycling pipeline  
22          waterline.

23                        MS. CROWE: Yes, there was a survey done  
24          along the waterline, along the streets, and did  
25          not find any special status species.

1 MS. DENT: Now, so the pipeline  
2 alignment that you considered then for the purpose  
3 of surveying, the recycled water pipeline  
4 alignment, in your testimony you indicate that  
5 that's about a 10-mile pipeline alignment.

6 Yet in previous testimony in the hearing  
7 we've heard testimony that the alignment's been  
8 altered, and now it's about a seven-mile  
9 alignment. So I want -- I'm kind of asking you to  
10 describe for me the pipeline alignment that you  
11 actually surveyed, what you surveyed for, and when  
12 the surveys were performed.

13 MR. HARRIS: I just want to object to  
14 the extent that there's a seven versus ten miles.  
15 But she can tell you what she surveyed. I don't  
16 want to get into the issue of how long the  
17 pipeline actually is, because I don't think this  
18 witness has that knowledge, but she --

19 MS. DENT: Well, I --

20 MR. HARRIS: -- can let you know what  
21 she did survey.

22 MS. DENT: Yeah, I'm just asking for the  
23 particular alignment, pages 7 to 11 of her  
24 testimony refer to the length of the pipeline, and  
25 that's not the current length of the pipeline at

1 all. So.

2 HEARING OFFICER FAY: Can we be real  
3 specific as to which alignment she will be  
4 referring.

5 MS. CROWE: I'm referring to the  
6 waterline that was presented in the biological  
7 assessment, which is the same as supplement A, and  
8 it was ten miles long.

9 MS. DENT: Okay, so that is then a  
10 different alignment than is currently been  
11 proposed. It's just a different length. So you  
12 surveyed along the alignment that is identified in  
13 supplement A, that's your testimony?

14 MS. CROWE: Yes.

15 MS. DENT: Thank you. And, what level  
16 of survey and what surveys were conducted and  
17 during what season?

18 MS. CROWE: Well, I don't remember the  
19 exact day. It was in the springtime. I looked  
20 about 1000 feet on either side of the waterline.  
21 Most of it was City, residential areas, commercial  
22 areas.

23 MS. DENT: And you were just doing a  
24 visual survey at that point?

25 MS. CROWE: Just visual survey,

1 binoculars, yeah.

2 MS. DENT: Okay. The next question I  
3 have about the surveys have to do with the  
4 sensitive species, and I don't know which witness  
5 would be the witness on this, but there's a  
6 recommendation for preconstruction surveys for  
7 sensitive species in impact areas during the  
8 spring. That's item 5 on page 16 of the  
9 testimony.

10 And there's another recommendation for  
11 preconstruction surveys on page 5 of the  
12 testimony.

13 Can you tell me what species were --  
14 what surveys beyond just visual surveys were  
15 performed for the project up to this point, or  
16 have there been no surveys other than visual  
17 surveys performed up to this point?

18 MS. CROWE: There have not been trapping  
19 surveys, if that's what you're talking about.  
20 There's visual surveys, both day and night.

21 MS. DENT: Well, I heard Mr. Jennings, I  
22 think, talk about protocol surveys for red-legged  
23 frogs and salamander, I think you said. Were  
24 those the only protocol level surveys conducted?

25 MS. CROWE: Those were the only protocol

1 surveys that were required for this particular  
2 project.

3 MS. DENT: So, are there going -- so is  
4 there going to be then another series of surveying  
5 for those species preconstruction? That seemed to  
6 me to be the recommendation in the testimony, that  
7 there be preconstruction surveying for those  
8 particular species. Is there going to be any  
9 further surveying for any other species?

10 MS. CROWE: Yes.

11 MS. DENT: Okay.

12 MS. CROWE: Preconstruction surveys will  
13 be conducted in all the impact areas. We'll be  
14 looking in burrows with burrow probes along the  
15 riparian corridor for tiger salamanders and  
16 potentially red-legged frogs.

17 We'll be doing nest surveys along Coyote  
18 Creek and Fisher Creek and on the site before  
19 construction begins to determine when construction  
20 could begin in those areas.

21 MS. DENT: And was there any reason why  
22 that level of surveying has been done to date?

23 MS. CROWE: That has already been done  
24 for the past two years. We have to do surveys  
25 just before construction to make sure no wildlife

1 has moved into those areas that previously did not  
2 contain them.

3 MS. DENT: Okay, so that level of  
4 surveying has previously been done, and you're  
5 going to redo it before construction?

6 MS. CROWE: Yes.

7 MS. DENT: All right. Then the area of  
8 noise. I believe in your testimony today you  
9 indicated that the noise estimate that you were  
10 using for noise from Metcalf Energy Center in the  
11 riparian corridor area was 55 to 60 dba. I think  
12 that's what you testified to today.

13 In your written testimony on page 14,  
14 you've indicated a continuous noise level of 68  
15 dba. The 68 dba would be more consistent with the  
16 noise testimony that we previously heard in the  
17 section on noise which indicated that noise would  
18 exceed 60 dba clear over to Coyote Creek.

19 Would you confirm for me that the  
20 written testimony is correct, that the continuous  
21 level of noise would be 68 dba?

22 MS. CROWE: The written testimony has a  
23 typographical error. That should be 60, not 68.

24 HEARING OFFICER FAY: Do you wish to  
25 correct that now?

1 MS. CROWE: Yes.

2 HEARING OFFICER FAY: This is on page 14  
3 of your testimony?

4 MS. CROWE: Yes.

5 HEARING OFFICER FAY: Okay, last  
6 paragraph on the page?

7 MS. CROWE: Correct.

8 HEARING OFFICER FAY: It's the fifth  
9 line down?

10 MS. CROWE: Yes.

11 MS. DENT: And so that --

12 HEARING OFFICER FAY: And it should read  
13 60 dba instead of 68?

14 MS. CROWE: That's right.

15 MS. DENT: Now, that's for the Fisher  
16 Creek riparian corridor area, as well as the  
17 Coyote Creek riparian corridor area, correct?

18 MS. CROWE: Coyote Creek would be less  
19 than Fisher Creek. Fisher Creek is closer to the  
20 site.

21 MS. DENT: Well, now if I showed you  
22 noise testimony that Calpine introduced in the  
23 noise section of the hearing that indicated that  
24 at Coyote Creek the noise would be in excess of 60  
25 dba, were you relying on noise estimates of

1 others, or did you perform your own noise  
2 estimates?

3 MS. CROWE: I'm relying on the noise  
4 estimates done for the project.

5 MS. DENT: So, if the noise testimony  
6 that was introduced earlier showed noise from  
7 Metcalf Energy Center in the Coyote Creek area of  
8 60 dba or greater, that would -- you would then  
9 adopt that testimony, if that's what Calpine's  
10 noise evidence showed?

11 MR. HARRIS: I think I want to object on  
12 the basis you've assumed facts that aren't in  
13 evidence.

14 MS. DENT: Well, I guess I can show you  
15 your -- I guess I can show you and show her your  
16 exhibit.

17 MR. HARRIS: That would be my  
18 preference.

19 MS. DENT: Okay.

20 HEARING OFFICER FAY: That's sustained  
21 and we'll take a moment to clarify this.

22 Please identify any documents that --

23 MS. DENT: This is a document entitled  
24 attachment number 182R revised for supplement C,  
25 Metcalf Energy Center noise impact assessment,

1 prepared for Calpine/Bechtel, prepared by Hessler  
2 and Associates, dated February 15, 2000.

3 SPEAKER: I think we have it, what page  
4 are you looking at?

5 MS. DENT: Hey, I'm a layperson, I just  
6 look at the little map.

7 SPEAKER: And which figure number? 2?

8 MS. DENT: Figure 1. Shows circles.

9 HEARING OFFICER FAY: Does that have an  
10 exhibit number?

11 MR. HARRIS: Yes, supplement C I think  
12 is exhibit 3; it's a portion of supplement C.  
13 Exhibit 5, I'm sorry. And what's the name of the  
14 table, I'm sorry? Appendix 3.5. And what is the  
15 table entitled?

16 MS. DENT: It's figure 1.

17 MR. HARRIS: I'm sorry, figure. Okay,  
18 so it's site vicinity showing expected plant  
19 day/night time average, DNL, is that correct?

20 MS. DENT: Correct.

21 MR. HARRIS: Okay, DNL, not dba.

22 MS. DENT: Correct.

23 MR. HARRIS: Okay.

24 MS. DENT: And you were relying on the  
25 evidence that was produced in these noise surveys

1 by Calpine in terms of looking at noise impacts on  
2 biology, is that correct?

3 MS. CROWE: Yes, I was referring to  
4 figure 2 of that same document.

5 MS. DENT: And the DNL figure 2,  
6 okay, --

7 MR. HARRIS: Actually figure 2 is dba,  
8 not DNL. I think that may be the source of the  
9 confusion here.

10 MS. DENT: Figure 2 is on page --

11 HEARING OFFICER FAY: What page is  
12 figure 2?

13 MR. HARRIS: It's immediately following  
14 page 7, so I guess that would be 8.

15 MS. DENT: Thank you very much. So,  
16 Fisher Creek is located within the circle 55 dba  
17 and above, correct?

18 MS. CROWE: Yes.

19 MS. DENT: Okay, and portions of Coyote  
20 Creek are also within the circle, 55 dba and  
21 above, correct?

22 MS. CROWE: Yes.

23 MS. DENT: And Metcalf Energy Center is,  
24 of course, in the center of that circle or more  
25 less. Do you know if the noise generated in the

1 center of the circle is 55 dba or 58 dba or 60  
2 dba, or any other number? Do you know what the  
3 noise is closest to the center of the circle?

4 MS. CROWE: Before or after the project?

5 MS. DENT: With the project in  
6 continuous operation.

7 MS. CROWE: My understanding that it's  
8 60 dba at the center of the project.

9 MS. DENT: Dropping out to 55 dba at the  
10 edges, that's your understanding?

11 MS. CROWE: That's my understanding.

12 MS. DENT: Thank you. And now the  
13 background noise levels in Fisher Creek and in the  
14 Coyote Creek riparian corridor, are you aware of  
15 the background noise level surveys that were  
16 performed and of the ambient low background  
17 nighttime noise levels?

18 MS. CROWE: I'm not.

19 MS. DENT: Would it make a difference to  
20 you, as a biologist, to know what the ambient, low  
21 ambient nighttime background noise levels were in  
22 terms of comparing current conditions to the  
23 condition that will exist after the plant begins  
24 operation?

25 MS. CROWE: No, because once again the

1 impacts to wildlife occur starting about 80  
2 decibels.

3 MS. DENT: So now is it your testimony  
4 then that there are no impacts to wildlife at all  
5 under 80 dba?

6 MS. CROWE: Of continuous noise, I'm not  
7 aware of any.

8 MS. DENT: So none of the species that  
9 could potentially be affected by this project  
10 would be impacted by noise below 80 dba, that's  
11 your testimony?

12 MS. CROWE: Not that I'm aware of.

13 MS. DENT: Now, and that's continuous  
14 noise level. So as long as the project operated  
15 at under 80 dba it's your testimony that there  
16 would be no adverse impact whatsoever on any  
17 species?

18 MS. CROWE: Yes.

19 MS. DENT: I'm going to ask the other  
20 witnesses if they agree with that, the other  
21 Calpine biological witnesses.

22 MR. HARRIS: To the extent they know  
23 they can answer.

24 MS. DENT: Well, to the extent that they  
25 purported to be experts on at least a few species

1 I'm going to ask them if they have an opinion,  
2 yeah.

3 If you would agree that continuous noise  
4 at 80 dba and above would not have any impact on  
5 the species that you are familiar with.

6 DR. WEISS: Speaking for the butterfly,  
7 I don't --

8 MS. DENT: They don't care.

9 DR. WEISS: Well, yes, I don't think  
10 they would. And certainly I don't think we'd have  
11 an impact on the rare plants in the serpentine.

12 DR. JENNINGS: As far as I know there's  
13 no evidence for fishes, amphibians or reptiles for  
14 anything that's under 80 being a problem.

15 MS. DENT: Okay. Now, that's addressing  
16 continuous noise. Did you take a look at the  
17 noncontinuous noise that would exist as a result  
18 of startup and operation of the plant?

19 MS. CROWE: No.

20 MS. DENT: So the fact that the plant's  
21 being certified to -- or being requested to be  
22 certified to startup and shutdown 600 times a year  
23 was not taken into account in terms of the impact  
24 of startup and shutdown noise on species?

25 MS. CROWE: No.

1 MS. DENT: And yet you testified that  
2 sharp and unexpected noises are more disturbing to  
3 wildlife than continuous noises?

4 MS. CROWE: Yes.

5 MS. DENT: And would the other witnesses  
6 agree with that in terms of your familiarity with  
7 the species that you've testified to. I'll  
8 exclude the butterfly at this point.

9 (Laughter.)

10 DR. JENNINGS: It makes no difference  
11 with fishes.

12 MS. DENT: Well, let's go to frogs and  
13 salamanders.

14 DR. JENNINGS: As far as I know it makes  
15 no difference to frogs or salamanders, either.

16 MS. DENT: Whether or not it's a --

17 DR. JENNINGS: Noise is not an issue.

18 MS. DENT: So, if it goes over 80 dba  
19 and it's a -- because of a condition where it  
20 takes it up and then it comes back down, just  
21 going over 80 dba would be disturbing to them?

22 DR. JENNINGS: All I can say is you've  
23 got red-legged frogs in places like the San  
24 Francisco Airport. They're still breeding.

25 MS. DENT: Okay.

1 (Laughter.)

2 MS. DENT: Now I wanted to have a few  
3 questions now about the butterflies and  
4 serpentine.

5 First of all the serpentine habitat on  
6 Tulare Hill, Tulare Hill is approximately 339  
7 acres, is that right?

8 DR. WEISS: Right.

9 MS. DENT: And it's currently serpentine  
10 habitat and does support some butterfly  
11 population?

12 DR. WEISS: We assume that the  
13 butterflies are there. Now, the last confirmed  
14 sighting of a butterfly out there was in 1995.  
15 And there's been a very low level of effort of  
16 surveys since then. But the assumption that we've  
17 been working under, and Fish and Wildlife has been  
18 working under, that there likely is a small  
19 population of butterflies on the site.

20 MS. DENT: So you did not survey for  
21 butterflies, then, on Tulare Hill?

22 DR. WEISS: No, but we made the  
23 assumption that they're there.

24 MS. DENT: You made the assumption that  
25 they're there because the host plant species --

1 DR. WEISS: Right, and that they've been  
2 historically there. And we've had a confirmed  
3 sighting five years ago.

4 MS. DENT: And that area is acknowledged  
5 to be -- will be impacted by nitrogen deposition  
6 from Metcalf Energy Center?

7 DR. WEISS: Yes.

8 MS. DENT: The entire 339 acres.

9 DR. WEISS: Correct.

10 MS. DENT: Okay. Then we also have  
11 Coyote Ridge, and the acreage on Coyote Ridge that  
12 you estimated would be impacted by nitrogen  
13 deposition from Metcalf Energy Center was what  
14 amount?

15 DR. WEISS: The sum on Coyote Ridge is  
16 3649 hectares, which if you multiply by 2.5 is  
17 about 9000 acres, but we also dropped out areas  
18 such as the Kirby Canyon landfill, which in the  
19 long run is not going to count as butterfly  
20 habitat.

21 MS. DENT: Well, now the CEC testimony  
22 on the FSA at page 485 indicates that you have a  
23 revised estimate of remaining undeveloped  
24 serpentine habitat in Santa Clara County of 3176  
25 acres. I'm assuming that not all of that

1 undeveloped serpentine habitat is on Coyote Ridge,  
2 and not all of it is within the area that would be  
3 impacted by Metcalf Energy Center. But I'm trying  
4 to get a picture of the amount of acreage on  
5 Coyote Ridge that you thought would be impacted.  
6 And we'll get to the level of impact in a minute,  
7 but --

8 DR. WEISS: Right. We're talking  
9 about -- right, areas that would have impacts are  
10 on the order of 2000 to 3000 acres.

11 MS. DENT: Okay. So we have a total of  
12 somewhere between 2500 and 3500 acres, round  
13 numbers, that would be impacted by the additional  
14 nitrogen deposition?

15 DR. WEISS: Yeah, correct. There's  
16 certain areas that are out of the plume, and just  
17 are going to have, you know, just really not have  
18 an impact.

19 MS. DENT: And all of that habitat has  
20 been designated just recently by the U.S. Fish and  
21 Wildlife Service as critical --

22 DR. WEISS: It's been proposed as  
23 critical habitat; the final ruling has not been --

24 MS. DENT: So that was the October --

25 DR. WEISS: Right.

1 MS. DENT: -- was the published  
2 publication of the proposal.

3 DR. WEISS: Right, the area that we  
4 assume is going to be impacted all lies within the  
5 critical habitat.

6 MS. DENT: Now, the Tulare Hill area  
7 being much closer to Metcalf Energy Center, you  
8 have indicated would be more impacted by Metcalf  
9 Energy Center and by nitrogen deposition --

10 DR. WEISS: Right, right --

11 MS. DENT: -- than the Coyote Ridge that  
12 is further away?

13 DR. WEISS: Right.

14 MS. DENT: Now, again we see the host  
15 plants on Tulare Hill that would indicate  
16 butterfly habitat, so whatever current smog levels  
17 are, whatever current nitrogen deposition levels  
18 are, they are apparently not bad enough to have  
19 crowded out the host plants yet on Tulare Hill?

20 DR. WEISS: Well, again, it's a matter  
21 of the grazing regime on the site. If the cattle  
22 were removed I would expect within two or three  
23 years a massive growth of grasses and the habitat  
24 quality would be greatly reduced.

25 MS. DENT: Now, is there some -- and I

1 believe it was perhaps in the staff testimony,  
2 some estimate of the nitrogen levels in soil, the  
3 level that they need to stay below in order for  
4 the nonnative grasses to stay out of the area,  
5 some level that is acceptable to the host species  
6 but will not allow the nonnative grasses to move  
7 in?

8 DR. WEISS: I don't believe that we ever  
9 stated a level. I know that --

10 MS. DENT: Well, I'll just reference you  
11 to page 373 of the biological resources section;  
12 it's the staff report.

13 It indicates that --

14 MR. HARRIS: I'm sorry, what was the  
15 page number, 3?

16 MS. DENT: It's page 373 of the PSA.

17 MR. HARRIS: The PSA is not before us;  
18 we don't have that.

19 MS. DENT: Well, it's filed.

20 HEARING OFFICER FAY: The staff's  
21 testimony is the FSA.

22 MS. DENT: Okay, I'll just say page 373  
23 of the PSA, I'll ask you to -- I'm going to ask a  
24 question on that, okay.

25 MR. HARRIS: I'm going to object on the

1 basis that the witness doesn't have that  
2 information before them, and --

3 MS. DENT: Well, I'm going to ask --

4 MR. HARRIS: -- and not --

5 MS. DENT: -- him a question, just ask  
6 him if he agrees with the statement in here.

7 MR. HARRIS: And I'm going to object to  
8 the question on the basis that the information is  
9 not before the witness.

10 MS. DENT: All right, I won't even refer  
11 to this document.

12 Do you agree that a nitrogen deposition  
13 rate of 3 to 10 kilograms per hectare per year is  
14 considered sufficient to affect ecosystem  
15 structure and diversity?

16 DR. WEISS: Yes.

17 MS. DENT: Thank you.

18 HEARING OFFICER FAY: On that basis do  
19 you withdraw the objection?

20 MR. HARRIS: What if I don't. It's a  
21 serious question. I mean --

22 HEARING OFFICER FAY: I think she's  
23 resolved it by just asking --

24 MR. HARRIS: Yes, I think she has, too.  
25 The rephrase seemed to deal with it. So, yeah, I

1 guess if it helps, yes, I'll withdraw.

2 MS. DENT: So, we have now then some  
3 indication about what deposition, nitrogen  
4 deposition rate would affect the ecosystem  
5 structure and diversity?

6 DR. WEISS: Right, and it's clear that  
7 the current deposition levels in the South Bay are  
8 affecting the ecosystem structure.

9 MS. DENT: I understand that that's your  
10 testimony, and you used an average of 7.5 pounds  
11 per year, I think, was --

12 DR. WEISS: Pounds per acre --

13 MS. DENT: -- or pounds per acre per  
14 year?

15 DR. WEISS: Yeah, that's our current  
16 best estimate of the background levels without  
17 Metcalf Energy Center.

18 MS. DENT: And now do you -- that was an  
19 average, though, for all of Santa Clara County,  
20 based on an average for all of Santa Clara County.  
21 Did you look specifically at the Metcalf Energy  
22 Center -- well, not the Metcalf Energy Center  
23 site, did you look specifically at current  
24 deposition rates on Tulare Hill and current  
25 deposition rates on Coyote Ridge?

1 DR. WEISS: No. The way we came up with  
2 the figure that's documented in my paper on  
3 conservation biology, we took data that were  
4 compiled for Fremont, which is the only place dry  
5 deposition has been estimated in the San Francisco  
6 Bay Area. And we adjusted the pollutant levels to  
7 represent the increase NOx and other pollutant  
8 levels in South San Jose, based on air pollution  
9 data from San Jose stations.

10 And we also adjusted the surface  
11 composition of the receiving surface to represent  
12 a seasonal grassland, whereas the original Fremont  
13 study that actually included a lot of other sites  
14 around California, used an urban mix, which was  
15 about 70 percent inert surface, such as concrete,  
16 roofs, 15 percent lawn and 15 percent tree.

17 So I went through an adjustment process  
18 in consultation with experts in the field to come  
19 up with an initial estimate of nitrogen deposition  
20 loads in South Bay on a seasonal grassland.

21 The Fremont data were based on 1985 to  
22 1994 air quality data. So my initial figure came  
23 out in the range of 10 to 15 kilograms per hectare  
24 per year.

25 Okay, the air has been getting a little

1 cleaner in the South Bay, so we revised those  
2 methods to -- we didn't revise the methods, we  
3 revised the inputs to reflect a general trend  
4 towards decreasing NOx levels.

5 So that's how we came up with 8.4  
6 kilograms per hectare per year, which translates  
7 into 7.5 pounds per acre per year.

8 MS. DENT: And so that's the revised --  
9 when you say -- the reference that's made in the  
10 final staff assessment is background annual NOX  
11 concentration. What you're actually -- it's not a  
12 background level in the soil, it's a --

13 DR. WEISS: No, --

14 MS. DENT: -- background deposition --

15 DR. WEISS: -- background deposition  
16 level, yes.

17 MS. DENT: That is the background  
18 deposition level?

19 DR. WEISS: Yes, right.

20 MR. HARRIS: One exchange at a time.

21 MS. DENT: So we have an average in the  
22 South Bay background deposition level of 7.5  
23 pounds, or 8.4 --

24 DR. WEISS: Kilograms --

25 MS. DENT: -- kilograms per hectare per

1 year. And again, that is not adjusted  
2 specifically for Tulare Hill or for Coyote Ridge?

3 DR. WEISS: No, that's a general figure  
4 for the South Bay, which is basically an  
5 extrapolation from Fremont figures.

6 MS. DENT: Now, we just went through the  
7 fact that when you're looking at Metcalf Energy  
8 Center as a source, you would consider that  
9 because it's closer to Tulare Hill, its deposition  
10 rate on Tulare Hill is going to be higher than the  
11 deposition rate on Coyote Ridge, which is further  
12 away.

13 DR. WEISS: Right, correct.

14 MS. DENT: Well, the other sources of  
15 nitrogen deposition being primarily I guess  
16 automobile traffic or other stationary sources --

17 DR. WEISS: Basically everything upwind.

18 MS. DENT: Right. The further away a  
19 particular site is from some of those sources the  
20 lower the nitrogen deposition on the site would be  
21 expected to be, is that correct?

22 DR. WEISS: Correct.

23 MS. DENT: And so Tulare Hill being in a  
24 relatively undeveloped part of Santa Clara County  
25 at this point in time, would -- and the existence

1 of the serpentine habitat in a better condition  
2 than it exists elsewhere, wouldn't that indicate  
3 that that area doesn't suffer quite the same level  
4 of nitrogen deposition as other more urbanized  
5 disturbed parts of the Bay Area or Santa Clara  
6 County?

7 DR. WEISS: No, I don't think so.  
8 Because Tulare Hill lies right there where with  
9 the prevailing northwest winds in the region, the  
10 level of smog that blows in towards Tulare Hill  
11 through the -- is a summation of everything  
12 upwind.

13 MS. DENT: So, now --

14 DR. WEISS: And, again, the current  
15 condition on Tulare Hill, the fact that there  
16 still are butterfly host plants and nectar  
17 sources, and again this applies to all of the  
18 serpentine in the South Bay, is a function of the  
19 fact that it's still being grazed by cattle.

20 MS. DENT: Now what about Coyote Ridge,  
21 that's much more -- much further remote in terms  
22 of from other air pollution sources.

23 Would you expect that the current --

24 HEARING OFFICER FAY: Is that a  
25 question?

1 MS. DENT: I haven't finished it yet.  
2 Assuming Coyote Ridge is more remote from other  
3 current sources of nitrogen deposition would you  
4 expect that the current background levels of  
5 deposition on Coyote Ridge are less than they are  
6 areawide?

7 DR. WEISS: No, not really. Because  
8 we're talking about a regional plume of smog  
9 coming down, and I think Greg Darvin can talk  
10 about the complications of air pollution  
11 chemistry, but very often you can find that the  
12 maximum amount of nitrogen deposition will be well  
13 downwind of the aggregation of sources because of  
14 chemical transformations in the air.

15 So there were some data in my 1999 paper  
16 that suggested that levels on, you know, the Kirby  
17 Canyon landfill on the south end of Tulare Hill  
18 were as great or perhaps even a little greater  
19 than up in the Silver Creek Hills.

20 And that's because of the complications  
21 of air pollution chemistry and the fact that we're  
22 sitting in a big regional smog plume.

23 MS. DENT: So your testimony then is  
24 that the 7.5 pounds --

25 DR. WEISS: Per acre per year.

1 MS. DENT: -- per acre per year, we'll  
2 use that one, areawide should be good for Tulare  
3 Hill and Coyote Ridge, also?

4 DR. WEISS: Yes. You have to realize  
5 that even the best, any scientist who works with  
6 dry nitrogen deposition, the first thing you admit  
7 is that there's a lot of uncertainties in any  
8 given number.

9 There are methods for, you know,  
10 comparative levels, but any absolute number really  
11 has to be taken with a grain of salt.

12 MS. DENT: Now, in terms of the impact  
13 from MEC, if I'm reading -- again, it was just  
14 easier for me to follow the final staff assessment  
15 in terms of the numbers -- page 486 of the final  
16 staff assessment indicates that the direct  
17 contribution of nitrogen to Tulare Hill from MEC  
18 would be 1.13 kilograms per hectare per year.

19 And I believe that was based on analysis  
20 that was provided to the CEC by Calpine/Bechtel.  
21 Do your witnesses agree with that statement?

22 DR. WEISS: Yeah, that's what's in the  
23 report here, so --

24 MS. DENT: So, then, again I'm going to  
25 now go back to the kilograms per hectare per year

1           because we can compare them that way.

2                     DR. WEISS: Right.

3                     MS. DENT: So we have 8.4 currently; MEC  
4           is going to add 1.13 to that --

5                     DR. WEISS: Right.

6                     MS. DENT: -- on an annual basis.

7                     DR. WEISS: Um-hum.

8                     MS. DENT: And then we have, again going  
9           back to the earlier testimony, the acknowledgement  
10          that somewhere between 3 and 10 you have impact  
11          enough to affect the habitat.

12                    DR. WEISS: Right.

13                    MS. DENT: So, we're now edging up close  
14          to the very top of the range in terms of impact on  
15          habitat, aren't we?

16                    DR. WEISS: Yes.

17                    MS. DENT: Okay. And at Coyote Ridge  
18          the deposition from Metcalf Energy Center is much  
19          less, it's .13. It's much slighter increase on an  
20          annual basis.

21                    DR. WEISS: Right, because it's farther  
22          from the source of the plume --

23                    MS. DENT: But -- and now apparently for  
24          this source being further from the source makes a  
25          difference, but for the general calculation of the

1 background you didn't think that made too much of  
2 a difference?

3 DR. WEISS: Right. You need to  
4 distinguish between a point source like Metcalf  
5 Energy Center, and your tracking the contribution  
6 of that plume, versus a large regional smog plume  
7 whereby levels of NOx and ozone and other things  
8 are actually very spatially spread out.

9 MR. SCHOLZ: Well, we'll do the air  
10 quality -- we'll be doing air quality soon.

11 MR. DARVIN: If I could interject real  
12 quick, actually the difference between Metcalf and  
13 its proximity to Tulare Hill and Coyote Ridge is  
14 that we may have more distinct plumes with Metcalf  
15 whereas we look at all the background sources  
16 throughout the region, they've had time and  
17 distance to mix together, so in a sense you don't  
18 have distinct plumes anymore from background  
19 sources. It becomes much more of an almost merged  
20 haze, if you will, that's contained within the  
21 airshed.

22 So, in a sense Coyote Ridge and Tulare  
23 Hill will be similarly exposed to background air  
24 pollution. But with regards to Metcalf, since we  
25 have more of a distinct plume, because of our

1           proximity to those two, that would account for the  
2           primary differences.

3                       MS. DENT:   So, there is a much greater  
4           impact from the plume on Tulare Hill than there is  
5           on Coyote Ridge?

6                       DR. WEISS:   As measured, yeah.

7                       MS. DENT:   As measured.   And --

8                       DR. WEISS:   Or as modeled.

9                       MS. DENT:   And there is a -- modeled.  
10          Correct.   And there is -- but Coyote Ridge is  
11          considered to be higher quality habitat currently?

12                      DR. WEISS:   Yes.

13                      MS. DENT:   And there's much more of it  
14          impacted.

15                      DR. WEISS:   Right.

16                      MS. DENT:   Now, the next area would be  
17          serpentine that I want to get to.

18                      MR. HARRIS:   Can I interrupt for a  
19          second.   My witnesses may need to take a short  
20          break.

21                      MS. DENT:   That'd be good.

22                      MR. HARRIS:   Can we let them do that?

23                      HEARING OFFICER FAY:   Sure.

24                      MR. HARRIS:   Give them five minutes.

25                      HEARING OFFICER FAY:   Five minutes,

1           okay. Take a five-minute break.

2                       MR. HARRIS: This is biology, so.

3                       HEARING OFFICER FAY: How much more do  
4 you have, Ms. Dent?

5                       MS. DENT: I just -- I'll tell you, the  
6 area that I want to just get into is how the  
7 calculation was done for the mitigation acreage.  
8 It probably shouldn't take any more than five or  
9 ten minutes.

10                      HEARING OFFICER FAY: Okay. Soon as we  
11 return then, after a five-minute break.

12                      (Brief recess.)

13                      MS. DENT: I am sorry, because you gave  
14 me a minute, I'm going to have to go backward on  
15 one thing.

16                      Before I get to the calculation of the  
17 acreage, I'm still a little perplexed by the  
18 depositions at Tulare Hill, nitrogen depositions  
19 at Tulare Hill without Metcalf Energy Center  
20 project.

21                      And again, looking at page 486 of the  
22 final staff assessment there's an estimated annual  
23 direct and cumulative depositions of nitrogen in  
24 the middle of the -- actually the end of the top  
25 paragraph -- at Tulare Hill and at Coyote Ridge.

1                   And the statement is that these maps  
2                   show estimated annual direct and cumulative  
3                   depositions of nitrogen to be 1.13 and 1.5 kg per  
4                   hectare per year on Tulare Hill, and .13 and 3 kg  
5                   per hectare per year on Coyote Ridge.

6                   Now, I would read that to mean that the  
7                   direct contributions from Metcalf Energy Center  
8                   are 1.13 and cumulative depositions from Metcalf  
9                   Energy Center and other sources are 1.5, which is,  
10                  if I'm -- if that is the correct reading, is far  
11                  lower than the 8.4 kg per hectare per year which  
12                  is the background that's referenced at the top of  
13                  the page.

14                  So, I'm asking for Calpine/Bechtel's,  
15                  for your indication to me on behalf of  
16                  Calpine/Bechtel, what the nitrogen deposition is  
17                  at Tulare Hill and at Coyote Ridge without the  
18                  Metcalf project versus with the Metcalf project.

19                  MR. HARRIS: Can you restate the  
20                  question? You lost me on --

21                  MS. DENT: Well, I'll ask the witnesses  
22                  whether they agree with the statement in the final  
23                  staff assessment on page 486 that the estimated  
24                  cumulative deposition of nitrogen at Coyote Hill  
25                  is 1.5 kg per hectare per year.

1 HEARING OFFICER FAY: Where on page 486  
2 is this found?

3 MS. DENT: Well, it's the last sentence  
4 of the top of -- it's the last sentence of the  
5 first paragraph.

6 MR. HARRIS: I think you've got  
7 different page numbers than I do. It's not in my  
8 copy. 488?

9 MS. DENT: Well, mine's directly off the  
10 internet, so --

11 MR. HARRIS: It's not your fault,  
12 Mollie, I just want to make sure we're all on the  
13 same page.

14 MS. DENT: Yeah, --

15 MR. HARRIS: Literally.

16 MS. DENT: -- let's see, I'll try to --

17 HEARING OFFICER FAY: Just for  
18 reference, people, if you pulled your copy off the  
19 internet as opposed to direct service the page  
20 numbers won't match, so we'll have this kind of  
21 problem.

22 MS. DENT: Yeah.

23 MR. HARRIS: Okay, so what paragraph are  
24 we looking at here? In addition to the fact that  
25 this is not my witness' testimony, the page number

1 is giving us problems. So, where are we?

2 MS. DENT: Well, I'm going to try to  
3 find the heading for you, I guess.

4 HEARING OFFICER FAY: Ms. Willis, can  
5 you help us?

6 MS. WILLIS: Yes. It would be the top  
7 of page 488. And there's a bullet, and I think  
8 she's referring to the paragraph right below the  
9 bullet.

10 HEARING OFFICER FAY: All right.

11 MS. DENT: The first -- the bullet at  
12 the top of the page of your page 488, the same as  
13 my page 486, the bullet indicates a revised  
14 background annual NOx concentration from 12.5 to  
15 8.4. Is that at the top of your page, also?

16 HEARING OFFICER FAY: Does the witness  
17 have that before him?

18 DR. WEISS: Yeah, we have it before us.

19 HEARING OFFICER FAY: And what is the  
20 question?

21 MS. DENT: My question is related -- my  
22 question specifically is whether or not they agree  
23 that the estimated annual cumulative deposition of  
24 nitrogen on Tulare Hill is 1.5 kg per hectare per  
25 year as indicated in the last sentence of the

1 first full paragraph.

2 MR. HARRIS: I think I want to object on  
3 the basis that this is not this witness'  
4 testimony.

5 MS. DENT: Well, I'm just going to --

6 HEARING OFFICER FAY: Well, --

7 MS. DENT: -- ask if they agree with it.

8 HEARING OFFICER FAY: That's overruled.  
9 Answer the question.

10 MR. DARVIN: Maybe I can clarify things  
11 a bit. The 1.5 kilogram per hectare per year on  
12 Tulare Hill was from a cumulative modeling  
13 analysis that included Metcalf, CVRP, and the  
14 Coyote Valley urban reserve, I don't know if  
15 that's the exact term, but it included three  
16 projects cumulatively.

17 And what we did when we modeled the  
18 project was made the same assumptions that we had  
19 on Metcalf alone in that all the NOx plus all the  
20 ammonia converts instantaneously to depositional  
21 nitrogen.

22 So the numbers that we have here are  
23 pretty large over-estimates. We made a number of  
24 very conservative assumptions in order to try to  
25 over-calculate impacts to see if there could be a

1 potential impact due to nitrogen.

2 But that 1.5 is due to three projects.

3 MS. DENT: So that 1.5 does not reflect  
4 the background levels from the smog that we heard  
5 testimony --

6 MR. DARVIN: Correct.

7 MS. DENT: -- about previously?

8 MR. DARVIN: Right, these are proposed  
9 new sources.

10 MS. DENT: So you modeled for that  
11 particular estimate CVRP, Metcalf Energy Center  
12 and one other, you said?

13 MR. DARVIN: An urban reserve, and I  
14 don't know the exact title of it, but that's what  
15 I've been calling it. I think an establishment of  
16 homes.

17 MS. DENT: Okay. Thank you, I just  
18 wanted to clarify what that cumulative deposition  
19 meant.

20 Now, in terms of the acreage that is  
21 going to be set aside for butterfly habitat, first  
22 of all, does Calpine/Bechtel, to your knowledge,  
23 control the 116 acres on Tulare Hill that's being  
24 offered as set-aside?

25 MS. CROWE: Yes, they do.

1 MS. DENT: And Calpine/Bechtel does not  
2 control the remaining 339 minus 116 acres, is that  
3 accurate?

4 DR. WEISS: That's accurate.

5 MS. DENT: Yet that entire 339 acres is  
6 going to be affected by the nitrogen deposition  
7 from a biological standpoint?

8 DR. WEISS: Yes.

9 MS. DENT: It doesn't respect property  
10 lines.

11 DR. WEISS: Right, it doesn't respect  
12 property lines.

13 MS. DENT: Okay, now does Calpine/  
14 Bechtel control the 15 acres on Coyote Ridge that  
15 are being proposed to be set aside?

16 DR. WEISS: Not at this point, but  
17 they've been in negotiations with Castle and  
18 Cooke, the land owner, to set up a conservation  
19 easement on the site. And I believe that has to  
20 be in place before the project proceeds.

21 MS. DENT: And again, the acreage that's  
22 going to be impacted on Coyote Ridge is much  
23 greater, it's in the 2000 to 3000 acre range.

24 DR. WEISS: It's in the 2000 to 3000  
25 acre range in terms of a slight increment.

1 MS. DENT: And Calpine/Bechtel doesn't  
2 control any of the rest of that acreage in terms  
3 of grazing or anything?

4 DR. WEISS: No.

5 MS. DENT: In going back to Coyote Hill  
6 you're not going to be controlling grazing on the  
7 339 minus 116 remainder of Tulare Hill?

8 DR. WEISS: Well, currently all of  
9 Tulare Hill is under the same grazing management  
10 regime. There's a PG&E easement and then there's  
11 a little residual area, and then there's the north  
12 side of Tulare Hill, so we have -- this is the  
13 property line for Calpine/Bechtel's property.  
14 There's about a 40-acre PG&E transmission line  
15 corridor easement --

16 HEARING OFFICER FAY: And please use  
17 directions as you --

18 DR. WEISS: Okay, -- running from  
19 basically east to west across the hill, and that's  
20 directly adjacent to Calpine/Bechtel's parcel on  
21 the southern portion. There's a little triangle  
22 between the PG&E transmission line corridor, and  
23 then the property that's the north side of Tulare  
24 Hill.

25 And currently this is all being grazed

1 under the same management regime. So, in the long  
2 run what happens on the north side of Tulare Hill,  
3 a lot of that's up to what the landowners up there  
4 agree to.

5 And I don't know personally whether, you  
6 know, they've been contacted or responded to  
7 attempts to contact them. So, --

8 MS. DENT: But if nitrogen depositions  
9 from Metcalf Energy Center do impact that side of  
10 Tulare Hill and grazing, the property owners on  
11 that side of Tulare Hill decide to stop grazing,  
12 you would expect to see a decline in butterfly  
13 habitat on that side of Tulare Hill, as well?

14 DR. WEISS: Yeah, anywhere in the South  
15 Bay where landowners decide to stop grazing you  
16 would see a decline in habitat quality.

17 MS. DENT: Particularly where nitrogen  
18 depositions increase?

19 DR. WEISS: Yeah, that would, you know,  
20 any incremental increase makes the process go a  
21 little faster.

22 MS. DENT: Did you look beyond just  
23 Coyote Ridge and Tulare Hill to areas further  
24 south in terms of serpentine habitat and impact of  
25 nitrogen depositions if it were to move further

1 south?

2 MR. DARVIN: We looked within a ten-mile  
3 radius around the project site, which covered  
4 various types of land use.

5 MS. DENT: So it would only go five  
6 miles south of the project site, then?

7 MR. DARVIN: Ten-mile radius.

8 MS. DENT: Oh, I see, okay --

9 MR. DARVIN: Ten miles in all  
10 directions.

11 MS. DENT: So you did go ten miles south  
12 of the project site?

13 MR. DARVIN: Yes.

14 MS. DENT: Did you find any serpentine  
15 habitat further south of the project site that  
16 would be impacted by nitrogen depositions?

17 MR. DARVIN: Well, if we look at one of  
18 the maps that has all the isopleths on it, we see  
19 that by the time we get to about the south end of  
20 Coyote Ridge we're getting down into the .0103  
21 range of deposition. And again, that is assuming  
22 that all the ammonia, all the NOx out of Metcalf  
23 is instantaneously converted to nitrogen.

24 So the idea was that using such  
25 Draconian assumptions about nitrogen formation,

1 and then modeling it, that once we got to a  
2 certain distance and the numbers start really  
3 dropping down, that we could be reasonably assured  
4 that impacts would not occur.

5 So, again, we tried to over-estimate and  
6 derive the impact analysis that way.

7 MS. DENT: Separating out for a minute  
8 the amount of nitrogen deposition, and just  
9 looking at the habitat, can you identify for me  
10 the acreage and habitat, butterfly habitat further  
11 south?

12 DR. WEISS: There's relatively limited  
13 butterfly habitat south of Anderson Dam, which is  
14 the south end of Coyote Ridge, as we call it.

15 I couldn't give you, off the top of my  
16 head right now, acreages. Those areas are  
17 probably being affected by the regional plume, but  
18 the increment from MEC is really minimal down  
19 there as seen in the isopleths here.

20 HEARING OFFICER FAY: Ms. Dent, excuse  
21 me. You indicated about five minutes, it's been  
22 more than ten minutes now. Can you wrap it up,  
23 please?

24 MS. DENT: I'm so slow, I'm sorry. I'll  
25 go on to the calculation then.

1 HEARING OFFICER FAY: Okay.

2 MS. DENT: I guess I had some difficulty  
3 figuring out how you got down from a 2500 to 3500  
4 acre area of impact to only preserving 131 acres.

5 And so my question really is what model  
6 or method or experience did you apply to coming up  
7 with the number of acres? I didn't see any  
8 indication of that.

9 HEARING OFFICER FAY: And I'm going to  
10 intercede. If the witness can point to a portion  
11 of his testimony or the applicant's testimony that  
12 goes through this, that would save us some time.  
13 If not, then --

14 DR. WEISS: Well, first on the general  
15 principle is that we were trying to mitigate for  
16 the increment that MEC would be having above the  
17 background.

18 And on the calculation of acreage from  
19 our estimate of that increment I need to defer to  
20 Linda Spiegel and Cecilia Brown, who took our  
21 impact assessment and turned it into acreage.

22 MS. DENT: So it just so happens that  
23 the amount of acreage that you're going to  
24 preserve, though, is the amount of acreage that  
25 Calpine happens to control?

1 MR. HARRIS: Objection. Argumentative.

2 MS. DENT: Well, I'm just asking --

3 HEARING OFFICER FAY: Sustained.

4 MS. DENT: -- it's identical to the  
5 amount of acreage --

6 DR. WEISS: No, it's not, there's --

7 MR. HARRIS: Mr. -- okay.

8 MS. DENT: Again, the amount of acreage  
9 that you're going to preserve is 116 acres, is  
10 that correct?

11 DR. WEISS: No, it's --

12 MS. DENT: On Tulare Hill.

13 DR. WEISS: On Tulare Hill.

14 MS. DENT: And that is the amount of  
15 acreage that Calpine currently controls.

16 DR. WEISS: Yes.

17 MS. DENT: And the amount of acreage  
18 that you're going to preserve on Coyote Ridge is  
19 15 acres?

20 DR. WEISS: Yes.

21 MS. DENT: Out of a total of between  
22 2000 and 3000 acres that are impacted by the  
23 project?

24 HEARING OFFICER FAY: Is that a --

25 DR. WEISS: Yes.

1 MS. DENT: And can any of the witnesses,  
2 given your experience, and you all -- at least Ms.  
3 Crowe laid out experience with other projects, can  
4 any of the witnesses point out to me another  
5 project that they've worked on that shows  
6 mitigation ratios equivalent to this project?

7 DR. WEISS: I think the talk of the  
8 mitigation ratios used in this project, again I  
9 need to defer to Linda Spiegel and Cecilia Brown  
10 because they came up with the mitigation ratios  
11 for the incremental impact.

12 MS. DENT: So none of you have any  
13 experience in projects that you've worked on with  
14 mitigation ratios equivalent to this project?

15 MS. CROWE: We have not worked on a  
16 project before with Bay Checkerspot butterfly and  
17 there was no precedence for calculating mitigation  
18 necessary.

19 MR. DARVIN: And in all the projects  
20 I've ever modeled I've never done an over-estimate  
21 the way I've done on this project to try to over-  
22 predict nitrogen impacts. Typically we just look  
23 at NOx emissions. In this case we actually almost  
24 doubled those to account for ammonia.

25 So, again, I've never looked at

1           Checked butterflies before in my life, but I  
2           have done nitrogen deposition analysis, but never  
3           to the degree of conservatism that I've done on  
4           this project.

5                       MS. DENT: Well, let me ask Dr. Weiss  
6           specifically, you indicated some familiarity with  
7           the loss of acreage in the Silver Creek area --

8                       DR. WEISS: Yes.

9                       MS. DENT: -- of San Jose with the  
10          butterfly habitat loss of acreage --

11                      DR. WEISS: Um-hum.

12                      MS. DENT: -- up there.

13                      PRESIDING MEMBER LAURIE: Ms. Dent, let  
14          me ask. Is it your position that the mitigation  
15          that's being proposed is adequate?

16                      MS. DENT: It's my position that there's  
17          been an inadequate demonstration on the record of  
18          the basis for the mitigation that is being  
19          proposed, that there is no explanation for the  
20          formula that has been used.

21                      And it is my belief that it is not  
22          consistent with what I have seen in terms of  
23          mitigation for other types of projects. And it's  
24          not necessarily consistent with mitigation that  
25          has been imposed by the City for Checkerspot

1 butterfly habitat.

2 PRESIDING MEMBER LAURIE: Is it your  
3 belief that you can apply generic formula to the  
4 amount of acreage that is imposed as a mitigation  
5 measure on the biology or do you believe that it's  
6 determined on a case-by-case basis, depending upon  
7 the unique circumstances of each case?

8 MS. DENT: I believe it does have to be  
9 determined on a case-by-case basis based on the  
10 unique circumstances in each case.

11 PRESIDING MEMBER LAURIE: Okay, and so  
12 these witnesses have testified that in their  
13 opinion the mitigation measures are sufficient to  
14 bring the level of impact below significance.

15 MS. DENT: I'm trying to probe the basis  
16 for their opinion.

17 PRESIDING MEMBER LAURIE: Okay. You  
18 have their written testimony?

19 MS. DENT: I've looked at their written  
20 testimony, and that's why I asked the question  
21 whether or not they have any other projects where  
22 they've used this type of technique, the technique  
23 that they used and that they testified to, and  
24 that is in their written testimony, is looking at  
25 this percentage of increase over background, and

1 then applying that back to acreage.

2 And I'm asking whether or not there are  
3 any other projects that they've worked on where  
4 they've seen that used.

5 HEARING OFFICER FAY: And that, I think,  
6 has been asked and answered. And, Ms. Dent, I'm  
7 going to direct you to staff, because apparently  
8 the applicant's witnesses relied on staff approach  
9 for mitigation acreage.

10 So, when staff testifies I think you  
11 should pursue that with them.

12 MS. DENT: Well, let me ask it this way.  
13 When were the 116 acres purchased by Calpine/  
14 Bechtel?

15 MR. HARRIS: Objection, this is not a  
16 biological question.

17 HEARING OFFICER FAY: Sustained.

18 MS. DENT: Fine, I'll ask the staff  
19 witnesses.

20 HEARING OFFICER FAY: Okay, thank you.  
21 Anything further?

22 MS. DENT: Let me look at my notes, just  
23 a moment, please.

24 Oh, yes, I do have some questions about  
25 a specific project that Mr. Weiss did indicate

1           some familiarity with, and that's the Silver Creek  
2           project.

3                       Are you familiar with the mitigation  
4           that was imposed for the Checkerspot butterfly for  
5           the Sierra Silver Creek Ranches project?

6                       DR. WEISS: Yes, I am.

7                       MS. DENT: And did you work on the EIR  
8           for that project?

9                       DR. WEISS: I did surveys out on that  
10          site in 1992, 1993 and 1994. And those data were  
11          incorporated into the EIR, but I have not worked  
12          on that EIR for any of the planning out there  
13          since 1994.

14                      MS. DENT: So, you don't have any  
15          familiarity then with the mitigation acreage  
16          ratios that were eventually identified as  
17          mitigation for loss of Checkerspot butterfly  
18          habitat for that project?

19                      DR. WEISS: I am familiar with the Fish  
20          and Wildlife Service biological opinion. I don't  
21          have it with me, so I couldn't tell you what the  
22          mitigation ratios are.

23                      MS. DENT: Do you know if they are  
24          consistent with the mitigation that is being  
25          recommended in this project?

1 DR. WEISS: This is a very different  
2 kind of habitat impact. There's quite a bit of  
3 difference of basically putting habitat under  
4 pavement in discrete acreage versus a diffuse  
5 incremental impact from something like nitrogen.  
6 So it's a very different animal.

7 MS. DENT: Correct. There's a very  
8 different -- the projects are different. But my  
9 question for you is once you identify the amount  
10 of acreage that's being impacted by the project,  
11 whether or not the mitigation ratios, as they are  
12 described, which for this project turned out to be  
13 one-half for Tulare Hill for impacted areas, and  
14 three times for Coyote Ridge impacted areas,  
15 whether or not those mitigation ratios are, in  
16 your opinion, consistent with the mitigation  
17 ratios that were used in that other Checkerspot  
18 butterfly project?

19 DR. WEISS: I would need to go back,  
20 look at the acreage and find out what the  
21 mitigation ratio is.

22 MS. DENT: Thank you. I have no further  
23 questions.

24 HEARING OFFICER FAY: All right. Is  
25 CVRP represented here? Apparently not.

1 All right, Mr. Ajlouny.

2 MR. AJLOUNY: Yes. Again, just to  
3 mention that I didn't prepare cross-examination  
4 because of the prehearing statements on November  
5 30th led me to believe that if the U.S. Fish and  
6 Wildlife document was not out by then we wouldn't  
7 be having this. That's what I led to believe. So  
8 I just wanted to open up with that.

9 HEARING OFFICER FAY: Okay, I have to  
10 point out that the notice clearly identified  
11 biological resources, the testimony of the  
12 applicant and the staff, as part of the subject of  
13 this hearing.

14 MR. AJLOUNY: I understand, but I just  
15 didn't really --

16 HEARING OFFICER FAY: Okay.

17 MR. AJLOUNY: When we were setting up  
18 the dates it was stated that the U.S. Fish and  
19 Wildlife might be delayed some. So they put it in  
20 group 3, hoping that it would be in by now.  
21 Knowing that it wasn't in, I thought we'd come  
22 here and it would be a continuance, and then we'd  
23 go on to visual.

24 HEARING OFFICER FAY: Okay.

25 MR. AJLOUNY: So, anyways --

1 CROSS-EXAMINATION

2 BY MR. AJLOUNY:

3 Q In all the modeling of the NOx -- and  
4 I'm going to use common lay terms, because I'm not  
5 into this profession, okay, so just bear with me,  
6 if you could.

7 But all the emissions coming out and all  
8 these calculations that we've been talking about,  
9 was the meteorology looked at? I mean is that  
10 what you use? It's like what's going on in the  
11 air for that area?

12 MR. DARVIN: Yes, we used one year of  
13 hourly meteorology to run the models.

14 MR. AJLOUNY: Okay. And this is just  
15 hypothetical for now. But I'm going to read a  
16 statement and then tell me if that would change  
17 some of your testimony or your feelings, or what  
18 you've been testifying today.

19 MR. HARRIS: Do you have copies of that  
20 statement for counsel?

21 MR. AJLOUNY: It's something that I'm  
22 going to read from that has no bearing of where  
23 it's coming from. I'm just going to read a  
24 statement. But you all have it --

25 MR. HARRIS: If you want the witness to

1 react to it I'd like the witness to be able to see  
2 the statement.

3 MR. AJLOUNY: Sure, if that makes a  
4 difference.

5 MR. HARRIS: It does make a difference.

6 MR. AJLOUNY: It's a one-sentence  
7 statement, but I'll read it, and then I'll give it  
8 to them.

9 PRESIDING MEMBER LAURIE: Just read the  
10 statement.

11 MR. AJLOUNY: In this situation the  
12 entire valley is like a closed pipe and pollutants  
13 are trapped from all sides.

14 If that was, and that's hypothetical --

15 PRESIDING MEMBER LAURIE: Is this a  
16 statement out of some document?

17 MR. AJLOUNY: Yeah, and I wasn't going  
18 to carry on, I just didn't want to bring it up and  
19 then I get a objection because it isn't their  
20 knowledge. But it's the one, it's the testimony  
21 of the five professors that was just docketed, you  
22 know, sent to everyone a few days ago on air  
23 pollution --

24 MR. HARRIS: Air quality --

25 MR. AJLOUNY: -- the air quality from

1 the five doctors and stuff like that.

2 MR. HARRIS: And I'm going to object on  
3 the basis that's air quality testimony.

4 MR. AJLOUNY: See, there you go.

5 MR. HARRIS: These are biological  
6 witnesses. Well, just because I'm right doesn't  
7 mean it's bad.

8 HEARING OFFICER FAY: Is this a  
9 biological question you're --

10 MR. AJLOUNY: Yes, because my first  
11 question --

12 HEARING OFFICER FAY: Go ahead, --  
13 (Parties speaking simultaneously.)

14 HEARING OFFICER FAY: -- phrase it.

15 MR. AJLOUNY: Okay. The first question  
16 is again you did all your analysis based on how  
17 air moves in that area, correct?

18 MR. DARVIN: Yes.

19 MR. AJLOUNY: Okay, and then if you  
20 happen to find out -- and I'm not going to go far  
21 with this, I'm just trying to bring something up,  
22 so when we do get to air quality we can take it  
23 for what it's worth.

24 HEARING OFFICER FAY: But it's the  
25 impacts on biology that you're getting at, right?

1 MR. AJLOUNY: Yes.

2 HEARING OFFICER FAY: Okay.

3 MR. AJLOUNY: But the impacts were  
4 calculated by how air moves in the area. And  
5 because biology is done before air quality, which  
6 seeing this now I almost think it should be  
7 reversed, just my opinion, so based on you doing  
8 your analysis on how air moves and the plumes and  
9 all that kind of stuff, would your testimony  
10 change quite a bit if you felt that the valley's  
11 like a closed pipe and pollutants are trapped from  
12 all sides? It's not moving like maybe your  
13 analysis assumed it did --

14 MR. HARRIS: I'm going to object because  
15 it calls for this witness to speculate on  
16 testimony that's not --

17 MR. AJLOUNY: I mentioned hypothetical.  
18 I thought that covers --

19 MR. HARRIS: Still calls for  
20 speculation.

21 MR. AJLOUNY: Okay.

22 HEARING OFFICER FAY: Well, let's just  
23 cut through this. What assumptions did you make  
24 in terms of the movement of air and pollution in  
25 the area?

1                   MR. DARVIN: I really don't make  
2                   assumptions in terms of how the air moves. What I  
3                   do is rely on a few different tools of techniques  
4                   that EPA provides to try to assess, you know,  
5                   dispersion within airsheds. One of those is the  
6                   use of representative onsite meteorology as input  
7                   into the model, which basically contains one year  
8                   of hourly wind speed, wind direction, temperature,  
9                   mixing height, stability data.

10                   That information is used in the model to  
11                   calculate the downwind concentrations. Now, the  
12                   models that I'm required to use by EPA and Bay  
13                   Area are called gaussing models. And they  
14                   incorporate in them a number of supporting  
15                   assumptions. And one of the most important is  
16                   that the atmosphere and source are in steady state  
17                   for one hour time periods.

18                   Another one, too, is that all mass is  
19                   conserved. In other words, whatever we stick out  
20                   the stack is always available for dispersion.

21                   So, in a sense I don't analyze three  
22                   dimensional wind fields within the area because  
23                   that type of analysis would require all sorts of  
24                   information that would take not only time to  
25                   gather, but then you'd have to find a model that

1 EPA could accept, along with Bay Area, that would  
2 represent the general area.

3 We tend not to do that because these  
4 gaussing models are screening models. They are  
5 designed to over-predict impacts. And if you  
6 don't show an impact with a screening level model  
7 there really is no need to go and collect three  
8 dimensional meteorology, or three dimensional  
9 stabilities and try to identify what the exact  
10 flow is in the region.

11 Now we know that the area's not a closed  
12 pipe because if it were, you know, in time people  
13 would obviously become -- I can never say the  
14 word -- but, you know, pollutant loading with  
15 build up over time, and you'd see some major  
16 problems.

17 Clearly there is ventilation in the  
18 area. And the gaussing model does a very good job  
19 at predicting potential impacts from these types  
20 of projects in areas with terrain.

21 So that statement that you read would  
22 not change my testimony.

23 MR. AJLOUNY: Because you don't believe  
24 the statement could ever happen? From what I just  
25 heard you say, that just a --

1                   MR. DARVIN:  It's not that it doesn't  
2                   ever happen, but it does not happen over time  
3                   periods of concern.

4                   MR. AJLOUNY:  What I'm trying to lead to  
5                   is the modeling that you did use from the EPA or  
6                   whatever numbers you get, if that was proven  
7                   incorrect in future dates, would it change your  
8                   testimony of the deposition of all this NOx and,  
9                   you know, ammonia falling down and growing the  
10                  grass and all that?  I just --

11                  MR. HARRIS:  I'm going to object again  
12                  to the question calling for speculation.

13                  HEARING OFFICER FAY:  I'm going to  
14                  sustain that because you're basically saying if  
15                  the basic assumptions of your testimony changed  
16                  would the result change.  And that could be the  
17                  case for anybody's testimony.  But without some  
18                  specifics, it's pretty general speculation for  
19                  them to get into that.

20                  MR. AJLOUNY:  Mr. Fay, my biggest  
21                  concern is I feel in the air testimony modeling  
22                  has been inaccurately done.  And we're not there  
23                  yet.  So I guess what I'm trying to do is be  
24                  systematic in working with the structure of this  
25                  whole testimony, is that if it does change, then I

1 really emphasize that all their testimony change,  
2 that's all --

3 MR. HARRIS: Can we be off the record?

4 PRESIDING MEMBER LAURIE: No, no, that's  
5 not necessary. That's okay. But that's all  
6 right, and if your argument, when we get to air,  
7 is that the testimony is based on false  
8 assumptions, well, you can then argue it then  
9 follows that everybody else's testimony, based  
10 upon these assumptions which you will allege to be  
11 false must fail. That will be your argument.

12 These folks have gone as far as they can  
13 go.

14 HEARING OFFICER FAY: I think what  
15 you're talking about --

16 MR. AJLOUNY: And that's the point I  
17 wanted to make, Commissioner, is do we leave  
18 something like this open for that testimony?  
19 Because I think there's --

20 HEARING OFFICER FAY: No, no. We'll  
21 take the evidence. You can argue in your brief  
22 that if something that is taken later puts in  
23 doubt some of the testimony that was presented  
24 previously, then that's something you argue.

25 MR. AJLOUNY: Okay. And I'll just ask a

1 general question then. Are you familiar with this  
2 document regarding the five professors from Morgan  
3 Hill on the air quality? Have you see it? Are  
4 you familiar with it?

5 MR. DARVIN: I'm familiar with one  
6 document that came out five months ago, four --

7 MR. AJLOUNY: No.

8 MR. DARVIN: -- months ago. I don't --

9 MR. AJLOUNY: Okay, that's fine. Okay,  
10 let me go through my notes here.

11 I just heard recently from testimony  
12 that estimates were doubled because of ammonia  
13 emissions, the slippage. Did I hear that -- I  
14 heard that from somebody.

15 MR. DARVIN: I included ammonia  
16 emissions in the modeling of nitrogen.

17 MR. AJLOUNY: And when you included  
18 that, by what factor, because of ammonia emissions  
19 versus I guess NOx emissions, or is NOx part of  
20 ammonia, I heard a comment that it was doubled  
21 because of ammonia.

22 MR. DARVIN: It basically doubled the  
23 emission rate per turbine. I don't have the exact  
24 number in front of me, but what I did was took the  
25 NOx emissions, added the ammonia emissions to

1 those, and then modeled that as nitrogen.

2 MR. AJLOUNY: Okay. So, would it be  
3 your testimony then if there was absence of  
4 ammonia it would be half as much impact on the  
5 surrounding area?

6 MR. DARVIN: Based on the methodology  
7 that I used, the impact in the modeling route  
8 would be less.

9 MR. AJLOUNY: Okay. And as an expert,  
10 would you prefer half of the emissions versus  
11 having to double -- I mean what would you prefer?

12 MR. DARVIN: I don't understand the  
13 question.

14 MR. AJLOUNY: Well, you -- how am I  
15 saying this. As an expert witness, and you know,  
16 going through and being concerned about the  
17 butterflies and the habitat and everything around  
18 it, would you --

19 PRESIDING MEMBER LAURIE: Sir, I don't  
20 think his personal preferences in life are  
21 relevant. He's testified that if there's a change  
22 in circumstances there's a change in impact. What  
23 he has personal views on regarding life, I don't  
24 find that relevant.

25 MR. AJLOUNY: Okay, that's fair. But,

1           again, it's going to be you doubled your impacts,  
2           or your calculations because of ammonia being part  
3           of this process?

4                       MR. DARVIN:  The idea was to try to  
5           over-estimate as much as possible what the  
6           potential of --

7                       MR. AJLOUNY:  Okay.

8                       MR. DARVIN:  -- nitrogen effects would  
9           be, so we included ammonia in the emissions from  
10          the model.

11                      MR. AJLOUNY:  So, it sounds like ammonia  
12          is pretty significant as far as the impacts?

13                      MR. DARVIN:  Well, in a sense we --

14                      MR. AJLOUNY:  It contributes.

15                      MR. DARVIN:  -- added to it.  In  
16          reality, it plays a much smaller role than how we  
17          modeled it.  I assumed instantaneous conversion in  
18          the stack of ammonia NOx to nitrogen.  In reality  
19          it's going to take place over time and distance.  
20          In fact, I believe at nighttime the process is  
21          actually reversed, but typically you can get  
22          anywhere from 8 percent to 30 percent conversion  
23          rates of NOx and ammonia to various types of  
24          nitrogen species.

25                      But we wanted to just completely remove

1           that from the equation and just assume that in  
2           stack everything converted instantly and so when  
3           we modeled the impacts we assumed everything  
4           coming out of the stacks was just pure nitrogen.

5                        So, we removed all the chemistry aspects  
6           from this modeling analysis.

7                        MR. AJLOUNY:  Okay, I want to explore  
8           the area of the cows helping out the butterflies.

9                        MR. DARVIN:  Yeah.

10                      MR. AJLOUNY:  Okay, because as a common  
11           layperson I've always had a hard time with that.  
12           So, I guess my question is cows eat the grass,  
13           right?

14                      MR. DARVIN:  Cows selectively eat the  
15           introduced grasses.

16                      MR. AJLOUNY:  Okay, so the cows won't  
17           eat the plant, and I think they called it --

18                      MR. DARVIN:  Plantain --

19                      MR. AJLOUNY:  What is it?

20                      MR. DARVIN:  Plantago, California  
21           plantago.

22                      MR. AJLOUNY:  Okay, whatever.  Cows  
23           don't eat that, and that's where the larvae and  
24           the butterfly lay it on?

25                      MR. DARVIN:  Yeah.

1                   MR. AJLOUNY: Okay. So, when cows go  
2 around eating grass, as far as I know the cows I  
3 know have four legs and --

4                   MR. DARVIN: Um-hum.

5                   MR. AJLOUNY: -- they're pretty heavy.  
6 So and they don't have much of a long neck,  
7 correct?

8                   (Laughter.)

9                   MR. AJLOUNY: I mean I'm just trying to  
10 figure this out, so if we take a ten foot by ten  
11 foot area of grass and put a cow in there, and  
12 he's going to eat that grass, keep it low enough  
13 so the butterflies can -- that's the theory I'm  
14 understanding, would you imagine that 50 percent  
15 of that ten by ten square foot is crushed by the  
16 feet of the cow? Or, I mean I'm just -- this is a  
17 serious question, I never did understand that.

18                  DR. WEISS: Well, if the issue is do  
19 caterpillars and pupae and other immobile parts of  
20 the life cycle get stepped on by cows, the answer  
21 is some do. But Bay Checkerspot butterfly  
22 populations are thriving in areas that are grazed  
23 on the order of one to ten cows -- no, excuse me,  
24 one cow per ten acres, and the populations are  
25 doing fine.

1                   Given the proper habitat conditions a  
2                   population can sustain a certain amount of  
3                   mortality from cows stepping on it.

4                   The removal of cows, on the other hand,  
5                   led to the extinction of the butterfly across  
6                   hundreds of acres of habitat in the Silver Creek  
7                   Hills.

8                   MR. AJLOUNY: Okay, but just to get back  
9                   to my question, I mean would the cows -- wouldn't  
10                  you imagine the cows stepping on what percentage  
11                  of that --

12                  DR. WEISS: I --

13                  MR. AJLOUNY: You have no idea?

14                  DR. WEISS: -- I couldn't give you a  
15                  figure on that.

16                  MR. AJLOUNY: But you're just basing all  
17                  this cow theory as history and what you've known  
18                  to be true as a specialist in this biology?

19                  DR. WEISS: Yeah, it's, you know, it's  
20                  my best scientific judgment; it's passed peer  
21                  review in the scientific literature. And it's  
22                  consistent with all the observations we have in  
23                  the area.

24                  MR. AJLOUNY: Okay, it's always been  
25                  hard for me to understand, but going on to the

1 other subject of the other acreage that's not  
2 controlled by Bechtel and Calpine.

3 Do you have any scientific explanation  
4 or proof of how to guarantee that cows are going  
5 to be there eating that grass?

6 DR. WEISS: Yeah, because that area is  
7 adjacent to what's existing conservation  
8 easements. It's grazed by the same rancher who  
9 grazes mitigation lease for the Kirby Canyon  
10 landfill. And there's no reason to believe that  
11 he's going to be not grazing that land well into  
12 the future.

13 MR. AJLOUNY: But there's no contracts  
14 in place or anything that you know of?

15 DR. WEISS: There's the grazing lease  
16 for the land as it exists, there's a current  
17 grazing lease on the land.

18 MR. AJLOUNY: Okay. So is that lease  
19 going to change at all with if the power plant  
20 doesn't go in? Best of your knowledge.

21 DR. WEISS: Not that I know of.

22 MR. AJLOUNY: So, if we don't have the  
23 Metcalf power plant you won't have as great a  
24 concern about these butterflies? Because the way  
25 it's status quo right now they're doing just fine?

1 DR. WEISS: No, I'm very worried that  
2 land that's not under conservation easements with  
3 management guidelines could be mismanaged or  
4 eventually developed.

5 MR. AJLOUNY: Are you aware of the plans  
6 of the County or City as far as developing that  
7 land, and the restrictions on it right now?

8 DR. WEISS: I understand there are  
9 restrictions, but --

10 MR. AJLOUNY: So do you have any reason  
11 to believe there's going to be any construction on  
12 the hillsides knowing the LORS or whatever the  
13 rules are of the City or County?

14 DR. WEISS: I would have to look in and  
15 see what the potential development is up there,  
16 but there have been development proposals in a  
17 fair number of serpentine areas.

18 MR. AJLOUNY: But on this hillside you  
19 don't know if any possibility of any development,  
20 do you?

21 MS. CROWE: Are you talking about Tulare  
22 Hill or Coyote Ridge?

23 MR. AJLOUNY: Tulare Hill.

24 MS. CROWE: -- to back up.

25 DR. WEISS: Oh, he's talking about

1 Tulare Hill. No, I --

2 MR. AJLOUNY: I'm sorry, all this is on  
3 Tulare Hill.

4 DR. WEISS: Okay. No, I don't know of  
5 current development proposals. I don't know if  
6 Debra or the other people --

7 PRESIDING MEMBER LAURIE: Well, if your  
8 answer is you don't know, that's your answer.

9 DR. WEISS: I don't know.

10 MR. AJLOUNY: Yeah, that's fine. And  
11 that's what I find to be true. And you don't know  
12 of any planned development or anything to Tulare  
13 Hill.

14 Do you know of any laws or LORS or  
15 something that would prohibit building on the  
16 hillside of Tulare Hill?

17 DR. WEISS: You'd have to go through the  
18 Endangered Species Act, various hillside zoning  
19 ordinances. But I've seen hillside zoning  
20 ordinances overruled by the City in the Silver  
21 Creek Hills and other sort of projects.

22 MR. AJLOUNY: You don't know that this  
23 hill's already been reserved for --

24 DR. WEISS: This hill has not been  
25 reserved. There's not --

1 MR. AJLOUNY: You're sure about that?

2 DR. WEISS: -- there's not a  
3 conservation easement over it.

4 MR. AJLOUNY: Okay, all right.

5 DR. WEISS: And since we are talking  
6 about Tulare Hill I would like to back up very  
7 briefly and say --

8 MR. AJLOUNY: Great.

9 DR. WEISS: -- that the management plan  
10 that goes in under this will guarantee a moderate  
11 level of well managed grazing on Tulare Hill into  
12 perpetuity.

13 MR. AJLOUNY: Of the controlled by  
14 Calpine land? Or all land?

15 DR. WEISS: Controlled by Calpine land.

16 MS. CROWE: Yes, it --

17 MR. AJLOUNY: And my concern is that I  
18 think around 200 acres that's not controlled by  
19 Calpine, that's where I was going with all my  
20 questioning. So there's nothing that you know  
21 scientifically that's going to make those  
22 landowners have cows on that land?

23 MS. CROWE: No.

24 MR. AJLOUNY: So in your expert opinion  
25 could you see how the butterfly might be affected

1 by the, you know, whatever the chemical is that  
2 makes the grass grow?

3 DR. WEISS: Nitrogen.

4 MR. AJLOUNY: Nitrogen.

5 DR. WEISS: Well, in the absence of  
6 cattle grazing we'll get lush growth of grass --

7 MR. AJLOUNY: So that could be  
8 significant impact on the butterfly?

9 DR. WEISS: If the cattle grazing were  
10 removed --

11 MR. AJLOUNY: And there's no mitigation  
12 to force those landowners to have cows on that  
13 land?

14 DR. WEISS: I think you'd have to talk  
15 to Fish and Wildlife Service about that, but --

16 MR. AJLOUNY: Okay, best of your  
17 knowledge --

18 DR. WEISS: The best of my knowledge  
19 it's the 116 acres that are owned by Calpine are  
20 going to be where the management program --

21 MR. AJLOUNY: Right, and my concern is  
22 not the 116, it's the other two-thirds of the  
23 land.

24 DR. WEISS: Right, well, I'm very  
25 concerned about the long-term grazing management

1 of all serpentine lands in the South Bay.

2 MR. AJLOUNY: Okay. So, --

3 CHAIRMAN KEESE: But our concern is the  
4 mitigation of the Metcalf project.

5 MR. AJLOUNY: Yes, and because --

6 CHAIRMAN KEESE: If you want to protect  
7 the world you can do that, but we're focusing on  
8 what it takes to mitigate the Metcalf --

9 MR. AJLOUNY: Energy plant.

10 CHAIRMAN KEESE: Right.

11 MR. AJLOUNY: Yeah.

12 CHAIRMAN KEESE: And that's 116 acres.

13 MR. AJLOUNY: And that -- well, no, see  
14 that's only because they own that 116 acres. But  
15 as the map says, you have around, I'm going to  
16 guess around 300 and something acres. Right? And  
17 my point is from testimony I heard earlier today  
18 is that the emissions from the power plant --

19 PRESIDING MEMBER LAURIE: Your testimony  
20 is understood. The testimony and your argument is  
21 that the nitrogen produced by this project will  
22 impact lands outside of the control of the  
23 applicant --

24 MR. AJLOUNY: Yes.

25 PRESIDING MEMBER LAURIE: -- which your

1 argument is could have an effect on the butterfly.

2 CHAIRMAN KEESE: But you're not going to  
3 get any further than that on cross-examination  
4 here.

5 HEARING OFFICER FAY: And you may want  
6 to pursue it with the staff, too, as to how they  
7 address their ratio, similar to --

8 MR. AJLOUNY: I'm not worried about a  
9 ratio, I'm just worried about there's a third of  
10 the land protected by cows guaranteed, two thirds  
11 is not. And two thirds of the butterflies could  
12 be affected on that hill. That's the only point,  
13 and I just wanted to know is that what you're  
14 testifying today?

15 MS. CROWE: Currently there is no fence  
16 that separates the properties, and all of the cows  
17 will be going across the entire hill. Until those  
18 landowners decide to separate their properties,  
19 and at that point they'll have to go through the  
20 consultation with Fish and Wildlife Service for  
21 the butterfly.

22 MR. AJLOUNY: Yeah, and the point is a  
23 fence could be put up there at anytime.

24 MS. CROWE: Yes.

25 MR. AJLOUNY: Okay, so there's no

1 control, I guess once I get through this then I  
2 won't go back there.

3 PRESIDING MEMBER LAURIE: Sir, as far as  
4 the Committee is concerned, --

5 MR. AJLOUNY: I made my point?

6 PRESIDING MEMBER LAURIE: -- you're  
7 through with it. I understand.

8 MR. AJLOUNY: Well, --

9 MR. HARRIS: Five, six times.

10 PRESIDING MEMBER LAURIE: Mr. Harris, I  
11 don't think I asked for your input on the  
12 question. I'm telling you I understand your  
13 argument.

14 MR. AJLOUNY: Okay, thank you.

15 MR. HARRIS: Can we be off the record  
16 briefly?

17 HEARING OFFICER FAY: Let's go off the  
18 record.

19 (Off the record.)

20 HEARING OFFICER FAY: Anything further,  
21 Mr. Ajlouny?

22 MR. AJLOUNY: Yes. And I just -- oh,  
23 regarding the red-legged frog, what does the red-  
24 legged frog eat?

25 DR. JENNINGS: Anything smaller than it

1 does, and it moves, --

2 MR. AJLOUNY: Okay.

3 DR. JENNINGS: -- including --

4 MR. AJLOUNY: So could it eat the larvae  
5 from the butterfly? I'm just --

6 DR. JENNINGS: They would probably not  
7 be found in the same area. They're found in  
8 different habitats.

9 MR. AJLOUNY: So it won't be any impact  
10 on the butterfly?

11 DR. JENNINGS: Not by red-legged frogs.  
12 I want to state for the record red-legged frogs  
13 have not been found on the site, or on Tulare  
14 Hill.

15 MR. AJLOUNY: Okay, on the 100-foot  
16 setback, the way I understood earlier testimony, I  
17 think it's from Debbie -- that some of that 100-  
18 foot setback is going to be disturbed, and then  
19 replanted or re-set back, trying to get it back to  
20 its original state?

21 MS. CROWE: There will be temporary  
22 disturbance during the construction, and then  
23 during the planting of the riparian trees.

24 MR. AJLOUNY: Okay, and in your  
25 expertness in this whole area, when you have

1 trucks coming in and, you know, bulldozing, and  
2 you know, moving land around and all that kind of  
3 stuff, wouldn't that affect the -- what do you  
4 call those guys -- they hide under rocks --  
5 salamanders and what is it -- tiger salamanders  
6 and things. Wouldn't it -- I mean my kids play in  
7 the backyard it like scares them off and they  
8 never come back. I don't have any salamanders in  
9 my back yard because my kids are little and  
10 finding them all.

11 Then they tend not to come back. Is  
12 that -- that's my experience. Is that your  
13 experience, if you're going to disturb the land  
14 and all the salamanders run for cover, would they  
15 come back to that area? I mean is that going to  
16 affect them, have some significant impact?

17 DR. JENNINGS: The only salamander  
18 that's at issue here for this Committee is the  
19 California tiger salamander. It has been not  
20 found during protocol surveys on site. Therefore,  
21 it's not at issue.

22 MR. AJLOUNY: So, the protocol survey,  
23 is that the one where you guys talk about a probe  
24 and check things?

25 DR. JENNINGS: Protocol surveys

1 conducted under regulations by the California  
2 Department of Fish and Game where we go out and  
3 visually survey under prescribed time periods to  
4 find salamanders if they're present or not.

5 MR. AJLOUNY: And that's where I was  
6 confused, because earlier I heard it was just a  
7 visual inspection. And then I heard there was  
8 more than a visual --

9 MS. CROWE: In addition to the protocol  
10 surveys that he's conducted, we're going to be  
11 doing burrow probes before ground disturbance.

12 MR. AJLOUNY: So knowing that  
13 salamanders, probably the tiger salamander, do  
14 they hide under rocks?

15 DR. JENNINGS: California tiger  
16 salamanders are found 95 percent of their life  
17 cycle in small mammal burrows.

18 MR. AJLOUNY: Does that mean little  
19 holes or something?

20 DR. JENNINGS: Yes.

21 MR. AJLOUNY: Okay.

22 DR. JENNINGS: Holes in the ground.

23 MR. AJLOUNY: Okay, so if you did a  
24 visual chances are you wouldn't see them anyways?

25 DR. JENNINGS: The protocols

1 specifically state that you have to be looking for  
2 them at the 5 percent chance in their life cycle  
3 when they're above ground. That's why you follow  
4 the protocols. Because if you don't follow the  
5 protocols you'd have a very hard time in finding  
6 these animals.

7 MR. AJLOUNY: Okay, so 5 percent of the  
8 time they're not hiding in the burrows?

9 DR. JENNINGS: That's correct.

10 MR. AJLOUNY: All right, and the survey  
11 was visual, didn't see any, so there won't be  
12 any -- you probably won't see any when you're  
13 going to move the ground?

14 MS. CROWE: Probably not.

15 MR. AJLOUNY: Okay. Is there any  
16 species that you're concerned about that are in  
17 that 100-foot setback that's going to disturb?

18 MS. CROWE: No.

19 MR. AJLOUNY: None. Are you familiar  
20 with the, and I want to -- what I remember is  
21 quoted in the noise section, loud whistles in the  
22 beginning of building the power plant to clear out  
23 some pipes or something. Are you --

24 HEARING OFFICER FAY: Is that the steam  
25 blow you're referring to?

1 MR. AJLOUNY: I think it's the steam  
2 blow, it's loud, about --

3 HEARING OFFICER FAY: During  
4 construction?

5 MR. AJLOUNY: Yes. Well, I think just  
6 before they -- there's a loud, like 120 db or  
7 something.

8 HEARING OFFICER FAY: I think he's  
9 referring to the steam blow.

10 MR. AJLOUNY: Steam blow. Are you  
11 familiar with that?

12 MS. CROWE: No.

13 MR. AJLOUNY: Okay. Is anyone familiar  
14 about that loud noise? I think -- no, okay.

15 Then I would say hypothetically if  
16 there's 120 db loud whistle for I think  
17 approximately an hour, would you think that would  
18 have any effect on any of the species that we've  
19 been talking about, or any concerns of any  
20 species?

21 MS. CROWE: Temporary disturbance,  
22 possibly, to nesting birds.

23 MR. AJLOUNY: And temporary means they'd  
24 leave their nests but come back?

25 MS. CROWE: Probably in the initial

1 start of that noise, but then they'd habituate to  
2 that.

3 MR. AJLOUNY: Meaning they'd get used to  
4 it?

5 MS. CROWE: Yes.

6 MR. AJLOUNY: Don't use big words with  
7 me. All right. I just, from your testimony I  
8 think I heard 75 to 90 db in movement is what's  
9 going to happen with the trucks. And I think  
10 anything over 80, or anything under 80 wouldn't  
11 disturb them. Well, I thought 120 might disturb  
12 them, to be a concern of yours.

13 MS. CROWE: Continuous noise of 80  
14 decibels and above would start to have effects.

15 MR. AJLOUNY: And continuous means for  
16 all the time, or one hour's not considered  
17 continuous?

18 MS. CROWE: All the time.

19 MR. AJLOUNY: Okay. The recycling water  
20 line going over -- the recycling water line that I  
21 think you talked about, are you going to be going  
22 under Fisher Creek with that at all?

23 MS. CROWE: Right at this point it will  
24 probably go underneath. This is at the junction  
25 where Fisher Creek crosses underneath Santa Teresa

1 Boulevard. So, yes, it will have to.

2 MR. AJLOUNY: And do you see any impacts  
3 when you're doing the drilling there?

4 MS. CROWE: No.

5 MR. AJLOUNY: None at all?

6 MR. AJLOUNY: No, except for again the  
7 potential for drilling mud.

8 MR. AJLOUNY: How many feet would you  
9 drill underneath the creek?

10 MS. CROWE: I don't know the specifics  
11 for this particular drill, but normally the  
12 directional drill is to the size of gas pipeline,  
13 or waterlines is about 70 feet or so.

14 MR. AJLOUNY: Okay, and are these drills  
15 the type of drills that you have a bit and it  
16 turns and you use a lot of water to kind of mix up  
17 the dirt, and then it pumps out the dirt? Is that  
18 the kind of drilling that you know?

19 PRESIDING MEMBER LAURIE: Before you  
20 answer that question, staff, did we have a  
21 biological workshop? Did we get into these  
22 issues?

23 MR. RICHINS: Yes, we did. We have a  
24 number of biological workshops and we went through  
25 these issues and the issues that the City asked.

1 And the City was also present at the workshop.

2 PRESIDING MEMBER LAURIE: Well, if you -  
3 - I don't want to use this witness for discovery,  
4 for educational learning experience. So, from the  
5 testimony, from her direct examination you ask  
6 specific questions, stick to the specific  
7 questions. Yes, sir.

8 MR. AJLOUNY: Well, --

9 MR. SCHOLZ: Commissioner Laurie, the  
10 biological workshop for this project was before  
11 the route change.

12 PRESIDING MEMBER LAURIE: Okay.

13 MR. SCHOLZ: September '99 was the  
14 biological.

15 MR. RICHINS: We had PSA workshops that  
16 occurred after we published the PSA.

17 HEARING OFFICER FAY: Also the witnesses  
18 or some people on the panel have testified to the  
19 potential for the mud to have an influence. So,  
20 they've obviously addressed the drilling impacts.

21 Now, you're getting into details of how  
22 the drilling is done. I think they've already  
23 covered that subject.

24 MR. AJLOUNY: Well, I'm just getting to  
25 details for a reason, because of my brief, in the

1 recent acquaintances with people that do the  
2 drilling and what they had to tell me.

3 So I'm trying to get things specifically  
4 said so you guys remember, and it's all going to  
5 be in transcripts, and then when I do my brief, I  
6 capture that and then I bring out some other  
7 issues. That's --

8 HEARING OFFICER FAY: Okay, let's --

9 MR. AJLOUNY: You see, I don't have the  
10 money for testimony and witnesses and I feel at a  
11 disadvantage.

12 HEARING OFFICER FAY: Let's get right to  
13 it.

14 MR. AJLOUNY: So that's the best way I  
15 can do it financially.

16 HEARING OFFICER FAY: See if they know.

17 MR. AJLOUNY: Okay. So, back to the  
18 question of the drilling, the 70 feet under. Is  
19 it the type of drilling that you have some bits  
20 and it just goes in a circle, and it has like a  
21 robot drilling and it puts a lot of water in, and  
22 you're sucking out the dirt at that time and  
23 putting it in a pile somewhere? Is that --

24 MS. CROWE: I don't know what type of  
25 drill they're going to use at that particular

1 location.

2 MR. AJLOUNY: So how would you come to  
3 the conclusion that it wouldn't have any impact on  
4 the -- on any species?

5 MS. CROWE: There are no special status  
6 species in Fisher Creek at that point. And then  
7 we have a contingency plan that we developed for  
8 drills where if there was a release of the  
9 drilling mud into the creek we stop drilling  
10 immediately and contain it. And then pump that  
11 mud out.

12 MR. AJLOUNY: Okay, so your testimony is  
13 at that location of the creek there's no species  
14 that you're concerned about?

15 MS. CROWE: Not that I'm aware of, no.

16 MR. AJLOUNY: All right. Just one  
17 moment, please, and I think I'm done.

18 (Pause.)

19 MR. AJLOUNY: That concludes my cross-  
20 examination, thank you.

21 HEARING OFFICER FAY: Thank you. Is  
22 there a representative from CARE present? All  
23 right, would you like to go ahead and cross-  
24 examine.

25 MR. BOYD: Mike Boyd, CARE.

1 CROSS-EXAMINATION

2 BY MR. BOYD:

3 Q My first question is first have any of  
4 you had a opportunity to review Dr. Smallwood's  
5 comments on the final staff assessment, the  
6 preliminary staff assessment and the mitigation  
7 and monitoring plan?

8 MS. CROWE: Yes.

9 MR. BOYD: So you have knowledge of the  
10 issues that he has raised. Have any of those  
11 issues in any that he's raised in his written  
12 comments in any way changed your position?

13 MS. CROWE: No.

14 MR. BOYD: What's your position on the -  
15 - I want to know what your position is on whether  
16 or not there is sufficient information at this  
17 time in the absence of a biological opinion to  
18 close the record following this hearing on  
19 biological resources?

20 MS. CROWE: Can you ask that again?

21 MR. BOYD: I'm asking if following the  
22 completion of this hearing today on biological  
23 resources, if you believe there is sufficient  
24 evidence in the record in the absence of the  
25 biological opinion from U.S. Fish and Wildlife

1 Service to close the record?

2 MS. CROWE: Yes, but I have not seen the  
3 biological opinion. If there are changes from  
4 what we expect, then can't answer that.

5 MR. BOYD: So, and how about the  
6 mitigation and monitoring plan? Will that also be  
7 affected by the -- possibly be affected by the  
8 biological opinion?

9 MS. CROWE: Yes, because the mitigation  
10 plan incorporates all of the conditions of the  
11 biological opinion, as well as all the other  
12 permits from Fish and Game --

13 MR. BOYD: So would you agree that in  
14 the absence of that biological opinion that  
15 mitigation and monitoring plan would not be yet  
16 complete?

17 MS. CROWE: That's right, it's a  
18 preliminary draft right now, yes.

19 MR. BOYD: Okay. Yet you just said that  
20 you thought there's sufficient information in the  
21 record to close it following this hearing?

22 PRESIDING MEMBER LAURIE: That's based  
23 on the information she has. We know that if the  
24 biological opinion comes in different than what's  
25 anticipated, a bunch of folks' opinions in the

1 proposed modification measures would change.  
2 That's a given. And that's everybody's testimony,  
3 and that's understood.

4 HEARING OFFICER FAY: We went over that  
5 at the beginning of the hearing, that if the  
6 requirements are more stringent in the biological  
7 opinion then they will control. And the  
8 monitoring plan will be modified.

9 MR. BOYD: Well, my concern is with the  
10 meaningfulness of CARE's participation and other  
11 members of the public's participation on having an  
12 evidentiary hearing when we don't have all the  
13 information in the record.

14 PRESIDING MEMBER LAURIE: Make your  
15 objection for the record, and --

16 MR. BOYD: And I --

17 PRESIDING MEMBER LAURIE: Mr. Ajlouny  
18 already --

19 MR. BOYD: -- know that Dr. Smallwood  
20 has also written to you about this very issue and  
21 raised it as an issue of piecemeal --

22 PRESIDING MEMBER LAURIE: Your objection  
23 is noted.

24 MR. BOYD: Okay. And also Dr. Smallwood  
25 asked if we could have a continuance or keep the

1 record open until such time as the biological  
2 opinion has been released and the public has had  
3 an opportunity to review it and comment --

4 PRESIDING MEMBER LAURIE: Well, that --

5 MR. BOYD: -- is the position of the --

6 PRESIDING MEMBER LAURIE: You can  
7 make --

8 MR. BOYD: -- on that.

9 PRESIDING MEMBER LAURIE: That's not  
10 appropriate for this witness. You can make the  
11 request to the Committee. And you have now made  
12 the request.

13 MR. BOYD: Okay. Basically the only  
14 other question I had is about the mitigation. Is  
15 the 15 acres that's proposed as mitigation located  
16 in the impact zone for nitrogen deposition?

17 MS. CROWE: Yes.

18 MR. BOYD: So on what basis can you say  
19 that that mitigation is adequate if it could also  
20 potentially be, that site, itself, could actually  
21 also be potentially adversely impacted by the  
22 project? How can you say that's sufficient if  
23 it's in the impact zone?

24 MS. CROWE: I'm not sure I understand.

25 PRESIDING MEMBER LAURIE: She doesn't

1 understand your question --

2 MR. BOYD: Okay, the 15 acres, I asked  
3 you, is in the impact zone of the nitrogen  
4 deposition, correct?

5 MS. CROWE: Yes.

6 MR. BOYD: And you said yes. And then I  
7 asked you earlier in your earlier testimony before  
8 other intervenors, you were asked if you felt that  
9 that mitigation, as proposed, was sufficient for  
10 the impact.

11 MS. CROWE: And that's not my decision.  
12 It would be up to the Fish and Wildlife Service --

13 MR. BOYD: And you deferred that to the  
14 Fish and Wildlife Service. Then what is your --  
15 if you don't have a position until the Fish and  
16 Wildlife Service takes a position, which will come  
17 out in their biological opinion, how can you say  
18 that's sufficient?

19 MS. CROWE: Because I defer to the  
20 experts.

21 HEARING OFFICER FAY: Dr. Weiss, can you  
22 shed any light on that?

23 DR. WEISS: I'm not really sure what the  
24 question is.

25 MR. BOYD: The question is about --

1 HEARING OFFICER FAY: I think he's  
2 wondering why can you have a mitigation area if  
3 it's within the impact zone. Is that your  
4 question?

5 MR. BOYD: That's my question.

6 HEARING OFFICER FAY: Right.

7 MS. CROWE: It's not just preservation  
8 of the habitat, too, it's also having a management  
9 plan using cattle to manage it.

10 MR. BOYD: Okay. Now, in your opinion I  
11 heard discussion mainly about the Checkerspot  
12 butterfly. You said you've read Dr. Smallwood's  
13 written information, and are you also aware that  
14 Dr. Smallwood did reconnaissance, two  
15 reconnaissance visits to the site, itself?

16 MS. CROWE: Yes.

17 MR. BOYD: And also did a survey?

18 MS. CROWE: Yes.

19 MR. BOYD: Including probing in ground  
20 squirrel burrows?

21 MS. CROWE: No. I'm not familiar with  
22 his results.

23 MR. BOYD: Okay, and are you aware that  
24 there was a disagreement between the applicant's  
25 opinion and Dr. Smallwood on the population of

1           those gopher holes, those ground squirrel holes on  
2           Tulare Hill and such?

3                     MS. CROWE:   Yes.

4                     MR. BOYD:   And if Dr. Smallwood  
5           hypothetically is correct, would that change your  
6           opinion on the likelihood of habitat for the red-  
7           legged frog and the tiger salamander?

8                     MS. CROWE:   No.

9                     MR. BOYD:   Even with more gopher holes?

10                    MS. CROWE:   Yes.

11                    MR. BOYD:   And do you base that opinion  
12           on actual information that you've gained through  
13           probing those holes?  Or I heard, I thought I  
14           heard you say something earlier about you would  
15           only do that before construction, is that correct?

16                    MS. CROWE:   It's based on Dr. Jennings'  
17           protocol surveys.

18                    DR. JENNINGS:  The surveys are done to  
19           protocol.  Probing is not protocol approved.

20                    MR. BOYD:   So you're saying that you  
21           don't believe that it's habitat for the red-legged  
22           frog, yet you haven't done the necessary  
23           reconnaissance to prove that, is that true?

24                    DR. JENNINGS:  I'm the expert for the  
25           red-legged frog and California tiger salamander.

1 Done the work by protocol on site. I've also done  
2 work in the area off site. All records that are  
3 positive for California red-legged frogs have been  
4 deposited with the Department of Fish and Game and  
5 the U.S. Fish and Wildlife Service with a natural  
6 diversity database forms.

7 If you want to find out where they're  
8 positive records of animals in those areas, it's  
9 public record, you can look them up. But as far  
10 as onsite, there are no records of these animals.

11 MR. BOYD: My understanding is  
12 different, and Dr. Smallwood actually worked for  
13 U.S. Fish and Wildlife Service and did surveys --

14 HEARING OFFICER FAY: We're getting --

15 PRESIDING MEMBER LAURIE: This is not  
16 the time for an argument, sir --

17 MR. BOYD: No, I'm not arguing --

18 PRESIDING MEMBER LAURIE: -- if you have  
19 a question --

20 MR. BOYD: -- I'm just saying I disagree  
21 with your opinion. And I invite you to look at  
22 it, Dr. --

23 HEARING OFFICER FAY: And, Mr. Boyd, now  
24 you're testifying.

25 MR. BOYD: Okay, --

1 HEARING OFFICER FAY: This is not the  
2 time to testify.

3 MR. BOYD: My other question has to do,  
4 a majority of the site is under Santa Clara County  
5 jurisdiction, where the riparian setback is 150  
6 feet.

7 Why isn't there 150-foot criteria for  
8 this riparian corridor?

9 MS. CROWE: Again, this is the County  
10 coordinates for riparian corridor setbacks is 150  
11 feet from natural streams. This portion of Fisher  
12 Creek is not natural, it's been modified heavily.

13 MR. BOYD: Is it in the County?

14 MS. CROWE: Yes, it is.

15 MR. BOYD: Is it still considered a  
16 riparian stream?

17 MS. CROWE: It is a stream that's been  
18 modified, yes.

19 MR. BOYD: So it's your opinion that the  
20 150-foot setback does not apply?

21 MS. CROWE: That's right.

22 MR. BOYD: Okay. My other question is  
23 do any of you have any experience with U.S. Fish  
24 and Wildlife Service's biological opinion in any  
25 other projects that you may have worked on?

1 MS. CROWE: Yes.

2 MR. BOYD: And in your experience is it  
3 common for -- have you experienced -- was it with  
4 like an Energy Commission siting or was it more  
5 like a normal EIR process?

6 MS. CROWE: Both.

7 MR. BOYD: Both. And is it your  
8 experience that it's normal for a biological  
9 opinion to take so long to be released?

10 (Laughter.)

11 MS. CROWE: Well, it's common that it  
12 goes over the regulation timeframe, yes.

13 MR. BOYD: Okay. Now, the other thing  
14 that I'm curious about, initially there was a  
15 discussion of a habitat conservation plan in the  
16 initial stages of this project.

17 Has that been abandoned by the  
18 applicant?

19 MS. CROWE: Which habitat conservation  
20 plan are you referring to?

21 MR. BOYD: Initially there was  
22 discussion of the development of a habitat  
23 conservation plan that would include this project,  
24 in the early stages. And it just disappeared, it  
25 just fell off the map. And I was just curious if

1           that --

2                       MS. CROWE:  Yes, it's --

3                       MR. BOYD:  -- was still a possibility  
4           here?

5                       MS. CROWE:  No.

6                       MR. BOYD:  And are any of you have any  
7           knowledge of the Nopomas (sic) Basin case against  
8           the U.S. Fish and Wildlife Service for the habitat  
9           conservation plan up there?

10                      MS. CROWE:  Can you repeat that?  I  
11           didn't hear.

12                      MR. BOYD:  The question is are any of  
13           you have any knowledge about the case that the  
14           U.S. Fish and Wildlife Service recently loss  
15           regarding the Nopomas Basin habitat conservation  
16           plan?

17                      MS. CROWE:  The Natomas Basin?

18                      MR. BOYD:  Yeah.

19                      HEARING OFFICER FAY:  I'm not sure what  
20           the relevance is to what we're doing here.

21                      MR. BOYD:  Well, basically the  
22           relevance, my understanding, if they understand  
23           that, then the next question is what I would have  
24           asked is if they believe that had any impact on  
25           the delay in the issuance of the biological

1 opinion.

2 MS. CROWE: I do not know.

3 HEARING OFFICER FAY: But that's the  
4 Natomas case; it's a different environment --

5 MR. BOYD: Well, I'm just trying to  
6 figure out why it's taking so long.

7 HEARING OFFICER FAY: Well, I think we  
8 can state for the record that at the Energy  
9 Commission we have had experience with the U.S.  
10 Fish and Wildlife Service not meeting deadlines.

11 Anything further, Mr. Boyd?

12 MR. BOYD: No, I think that's it. And  
13 I'd just --

14 HEARING OFFICER FAY: Okay, thank you.

15 MR. BOYD: -- finish by requesting once  
16 again that you keep the record open on biological  
17 until all the information is in.

18 PRESIDING MEMBER LAURIE: Thank you,  
19 sir.

20 HEARING OFFICER FAY: Thank you. Mr.  
21 Williams. Mr. Williams is --

22 MR. SCHOLZ: Mr. Williams could not make  
23 it today. He's on a consulting trip.

24 HEARING OFFICER FAY: Okay, and you're  
25 Mr. Scholz?

1 MR. SCHOLZ: Yes.

2 HEARING OFFICER FAY: And according to  
3 what came out of the prehearing conference, you  
4 were not scheduled to cross-examine. Did you  
5 notify the Committee that you intended to cross-  
6 examine on this?

7 MR. SCHOLZ: My understanding that  
8 there's a limited number of questions that all  
9 intervenors can ask.

10 PRESIDING MEMBER LAURIE: And that's  
11 correct, we provided flexibility to the point of  
12 some degree of flexibility.

13 HEARING OFFICER FAY: Okay.

14 (Laughter.)

15 HEARING OFFICER FAY: All right.

16 PRESIDING MEMBER LAURIE: Mr. Scholz has  
17 been very good about --

18 HEARING OFFICER FAY: We will indulge  
19 Mr. Scholz.

20 MR. SCHOLZ: Thank you, Mr. Fay. I  
21 didn't want to ask for privilege. Thank you for  
22 affording this opportunity.

23 CROSS-EXAMINATION

24 BY MR. SCHOLZ:

25 Q Dr. Weiss, you've been studying the

1 Checkerspot butterfly since 1979. When did you  
2 become aware of the proposed Metcalf Energy  
3 Center?

4 DR. WEISS: In the summer and fall of  
5 1999.

6 MR. SCHOLZ: Who notified you of the  
7 proposed Metcalf Energy Center?

8 DR. WEISS: I first heard about it  
9 through the grapevine, because I try to keep on  
10 top of Coyote Valley issues. And then I was  
11 contacted by -- I received hearing notices and I  
12 was contacted by CH2MHILL by Debra Crowe.

13 MR. SCHOLZ: Do you have any  
14 recollection of being contacted by the community  
15 much earlier than that?

16 PRESIDING MEMBER LAURIE: Why is any of  
17 that relevant, Mr. Scholz? This witness is a  
18 consultant of the applicant. Why is it relevant  
19 as to how he learned about the project or who he  
20 talked to?

21 MR. SCHOLZ: I want to know when he  
22 became a consultant to the applicant.

23 PRESIDING MEMBER LAURIE: Why?

24 MR. SCHOLZ: Why?

25 PRESIDING MEMBER LAURIE: Um-hum.

1                   MR. SCHOLZ: Because he had severe  
2 concerns about this project in September of '99.  
3 And I want to know was he a consultant then, or  
4 did he become a consultant after those concerns?

5                   PRESIDING MEMBER LAURIE: Ask him.

6                   MR. SCHOLZ: Okay, thank you. In  
7 September of 1999 when you came to the biological  
8 workshop were you a consultant to the applicant?

9                   DR. WEISS: No, I wasn't.

10                  MR. SCHOLZ: Do you recall a number of  
11 concerns you had with this project in September of  
12 1999?

13                  DR. WEISS: Yes, I recall I voiced a  
14 large number of concerns with the impact analysis.

15                  MR. SCHOLZ: You were subsequently hired  
16 by the consultant -- or as a consultant how much  
17 longer after your September '99 --

18                  DR. WEISS: I started working for  
19 CH2MHILL as a subcontractor in February of 2000.

20                  MR. SCHOLZ: What has changed in the  
21 project, if you can, that somehow makes a lot of  
22 your concerns go away since September of 1999?

23                  DR. WEISS: A lot of my concerns were  
24 incorporated into the deposition modelings, we  
25 came up with a worst case scenario. And I think

1 that was, and Calpine/Bechtel addressed the issues  
2 and came up with a mitigation plan.

3 MR. SCHOLZ: One of the things you felt  
4 was very important in September of 1999 was that  
5 there should be one year's worth of data collected  
6 at the site. And you were hired in February of  
7 2000. So that's roughly a year now. Did you ask  
8 the applicant to do one year's worth of site data?  
9 Did you collect any measurements of the ambient  
10 deposition?

11 MR. HARRIS: Can you clarify what kind  
12 of data you're talking about, Scott? Because I  
13 was at those meetings --

14 MR. SCHOLZ: Right, I was at those  
15 meetings, as well. He said one year of field data  
16 should be done if this project is to be  
17 constructed. He proposed getting information  
18 prior to construction and then additional  
19 monitoring once construction began. And he  
20 suggested ways to collect that data on the site,  
21 too.

22 DR. WEISS: I believe those are going to  
23 be implemented in the mitigation plan.  
24 Construction is going to take place over an 18-  
25 month to two-year period.

1                   MR. SCHOLZ: So right now you're doing  
2                   your estimations for the background ambient on,  
3                   you know, using estimates. At the time in  
4                   September '99 you wanted to know what that data  
5                   was before you would start figuring out how to  
6                   mitigate this.

7                   DR. WEISS: We're using the best  
8                   available scientific information at this point.

9                   MR. SCHOLZ: How important are the Santa  
10                  Teresa Hills to the west of the site to the Bay  
11                  Checkerspot butterfly?

12                 DR. WEISS: Potentially they're very  
13                  important, but the grazing management in the  
14                  County park is no grazing, and the habitat is  
15                  deteriorating.

16                 MR. SCHOLZ: Can the Bay Checkerspot  
17                  butterfly get from the Coyote Ridge to the Santa  
18                  Teresa Hills without -- can they get there  
19                  directly from the Coyote Ridge to the Santa Teresa  
20                  Hills?

21                 DR. WEISS: Well, I mean they have to  
22                  fly over something, but, yes. It's a very low  
23                  likelihood of long distance dispersal in this  
24                  butterfly.

25                 MR. SCHOLZ: Was Tulare Hill the

1 important stopping point from Coyote Ridge to the  
2 Santa Teresa Hills?

3 DR. WEISS: Tulare Hill is recognized as  
4 an important dispersal corridor by the Fish and  
5 Wildlife Service in their critical habitat  
6 proposal.

7 MR. SCHOLZ: I'm just trying to  
8 understand, is there another stopping point from  
9 the Coyote Ridge to the Santa Teresa Hills other  
10 than Tulare Hill for the Bay Checkerspot  
11 butterfly?

12 DR. WEISS: No, I believe it's the only  
13 substantial serpentine outcrop between Coyote  
14 Ridge and the Santa Teresa Hills.

15 MR. SCHOLZ: Is it your goal to confine  
16 the Bay Checkerspot butterfly just to the Coyote  
17 Ridge area?

18 MS. CROWE: No, --

19 MR. SCHOLZ: Or would you like to --

20 DR. WEISS: No, it's not. I would like  
21 to see the habitat in the Santa Teresa Hills  
22 restored, and I would like to see the habitat on  
23 Tulare Hill managed so as to improve the quality  
24 of it for the butterfly.

25 MR. SCHOLZ: If you had a choice for the

1           sake of the Bay Checkerspot butterfly would you  
2           prefer the proposed Metcalf Energy Center were not  
3           located so close to Tulare Hill?

4                     DR. WEISS: With the mitigation measures  
5           in hand, I don't have a preference for a site  
6           further away from Tulare Hill.

7                     MR. SCHOLZ: Thank you.

8                     HEARING OFFICER FAY: Thank you, Mr.  
9           Scholz.

10                    We're ready to move into staff direct.  
11           Are you ready, Ms. Willis?

12                    PRESIDING MEMBER LAURIE: Do you want to  
13           take a break?

14                    MR. HARRIS: Is it redirect now?

15                    HEARING OFFICER FAY: Oh, sorry.

16                    MR. HARRIS: I have a brief redirect.

17                    HEARING OFFICER FAY: All right, go  
18           ahead.

19                    MR. HARRIS: One series of questions.

20                    HEARING OFFICER FAY: Sure.

21                                 REDIRECT EXAMINATION

22           BY MR. HARRIS:

23                    Q     For Dr. Weiss, I want to talk about  
24           cumulative impacts, actually cumulative impacts  
25           questions. Are the nitrogen depositions from the

1 CVRP Cisco project comparable to those of the  
2 Metcalf project?

3 DR. WEISS: In the environmental impact  
4 report for CVRP they mentioned a figure of 212  
5 tons of NOx being produced, primarily from  
6 traffic.

7 MR. HARRIS: So they're roughly  
8 comparable, or is the Cisco project slightly  
9 higher?

10 DR. WEISS: They're roughly comparable,  
11 but I think Cisco is a little bit higher.

12 MR. HARRIS: To your knowledge has the  
13 City required Cisco to mitigate for their  
14 contribution to the nitrogen deposition in the  
15 Coyote Valley?

16 DR. WEISS: Quite the contrary. They've  
17 been in complete denial that it's even an issue,  
18 and hired a consultant to critique my paper, which  
19 I had to address.

20 MR. HARRIS: So the City's mitigation,  
21 we had some discussion about whether our  
22 mitigation for the Metcalf project was adequate,  
23 is it your understanding the City's mitigation is  
24 basically zero?

25 DR. WEISS: Zero or perhaps even worse

1 than zero by denying that there's even an issue.

2 MR. HARRIS: So in your opinion should  
3 the City be requiring the Cisco CVRP project to  
4 mitigate for their contribution to nitrogen  
5 deposition?

6 MS. DENT: I'm going to object to the  
7 question on the grounds of relevance. It relates  
8 to an entirely different project.

9 MR. HARRIS: There's a cumulative  
10 impacts analysis which is completely relevant to  
11 the project.

12 MS. DENT: You've asked specifically  
13 about mitigation for the Cisco project, which is  
14 not before the Commission. I'll restate the  
15 objection.

16 HEARING OFFICER FAY: I understand it is  
17 before the Commission in terms of cumulative  
18 impacts. Is that not right --

19 MS. DENT: He asked whether the City --  
20 you can restate your question. You asked whether  
21 the City should require mitigation for the Cisco  
22 project and --

23 MR. HARRIS: I think my question was  
24 fine.

25 MS. DENT: -- I don't think that's

1 before the Commission at all.

2 HEARING OFFICER FAY: Well, Mr. Harris,  
3 perhaps you want to rephrase it in terms of not so  
4 much what the City should do, but in terms of  
5 impacts.

6 MR. HARRIS: From your perspective as a  
7 biologist, would it be biologically beneficial if  
8 the City were to require Cisco to mitigate for  
9 their contribution to the nitrogen deposition?

10 MS. DENT: I'm going to object again on  
11 the grounds of relevance. That doesn't --

12 HEARING OFFICER FAY: Okay, --

13 MS. DENT: -- have anything to do --

14 HEARING OFFICER FAY: -- that --

15 MS. DENT: -- with the Metcalf Energy  
16 Center project.

17 HEARING OFFICER FAY: -- objection is  
18 overruled. Go ahead and answer the question.

19 DR. WEISS: Could you just say the  
20 question one more time?

21 MR. HARRIS: I'm not sure I can.

22 (Laughter.)

23 MR. HARRIS: If Mollie will leave, I'll  
24 try.

25 From a biological perspective would it

1 be biologically beneficial if the City had  
2 required a cumulative impacts analysis, if the  
3 City had required Cisco to mitigate for their  
4 contribution to nitrogen deposition?

5 DR. WEISS: Yes.

6 MR. HARRIS: A short answer, but thank  
7 you. That's all I have.

8 HEARING OFFICER FAY: That's all you  
9 have, okay. Any recross on that narrow question?  
10 Go ahead.

11 MS. DENT: Oh, I'm going to go for it.

12 HEARING OFFICER FAY: Within the scope  
13 of the --

14 MS. DENT: Within the scope.

15 HEARING OFFICER FAY: -- redirect.

16 RE-CROSS-EXAMINATION

17 BY MS. DENT:

18 Q Now, there is a difference between  
19 direct and indirect impacts in terms of  
20 mitigation, is there not? From a biological  
21 mitigation standpoint, the impacts of the Metcalf  
22 Energy Center are direct. The nitrogen oxide  
23 emissions are going to come from the construction  
24 of the project, is that correct?

25 DR. WEISS: From the operation of --

1 MS. DENT: From the operation of the  
2 facility. The impacts such as they may be from  
3 traffic are indirect impacts, not direct impacts  
4 from the project. You're not indicating that CVRP  
5 is going to have some facility that is going to be  
6 a stationary source of air emissions that is  
7 anywhere near Metcalf Energy Center, are you?

8 DR. WEISS: No.

9 DR. JENNINGS: Excuse me, you will  
10 actually have emissions from automobiles  
11 contributing directly to nitrogen formation.

12 MS. DENT: Of course you will, but --

13 DR. JENNINGS: It's just --

14 MS. DENT: -- they're not from the  
15 facility.

16 DR. JENNINGS: They're a direct result  
17 of the facility.

18 MS. DENT: It's not a stationary source  
19 like Metcalf Energy Center.

20 DR. JENNINGS: It's a mobile source  
21 which contributes a large amount of NOx to the  
22 airshed, and contributes a large amount of NOx,  
23 especially from the parking lot activities to the  
24 local area.

25 MS. DENT: Now, you indicated -- you've

1 talked about the CVRP project, but you are aware  
2 that the City has required serpentine mitigation  
3 for other projects with direct impact on  
4 serpentine habitat, aren't you? Specifically the  
5 Silver Creek Ranches or Sierra project that you  
6 talked about earlier.

7 DR. WEISS: Actually I believe it's the  
8 Fish and Wildlife Service that put the mitigation  
9 requirements in --

10 MS. DENT: Well, similar to this project  
11 it was through a biological opinion, correct?

12 DR. WEISS: Correct, it was the --

13 MS. DENT: Thank you.

14 DR. WEISS: -- biological opinion.

15 HEARING OFFICER FAY: Is that all?

16 MS. DENT: That's all.

17 HEARING OFFICER FAY: Okay. Any further  
18 recross on this narrow topic?

19 MR. AJLOUNY: Yes, I do.

20 HEARING OFFICER FAY: Okay, within the  
21 scope of --

22 MR. AJLOUNY: That's right, and just in  
23 regard to Cisco, now that you brought it up.

24 //

25 //

1 RE-CROSS-EXAMINATION

2 BY MR. AJLOUNY:

3 Q If Cisco wasn't built would it change  
4 your testimony at all in the cumulative impacts?

5 DR. WEISS: If Cisco weren't built --

6 MR. AJLOUNY: Yes.

7 DR. WEISS: I'm not sure I understand  
8 the question. If Cisco weren't built we would  
9 take CVRP out of the cumulative impact study.

10 MR. AJLOUNY: Okay, that's what I felt.  
11 And are you aware that there's a great chance that  
12 Cisco might not --

13 PRESIDING MEMBER LAURIE: No, that's  
14 speculative.

15 MR. AJLOUNY: No, that's not  
16 speculative.

17 PRESIDING MEMBER LAURIE: Yes, it is  
18 speculative.

19 HEARING OFFICER FAY: Don't argue with  
20 the Committee.

21 PRESIDING MEMBER LAURIE: I won't allow  
22 the question. The evidence is that the project is  
23 an approved project. Whether or not it's going to  
24 be built there's no evidence in front, and we're  
25 not going to allow any.

1                   MR. AJLOUNY: The cars going up and down  
2 Santa Teresa, Monterey Highway daily that are  
3 there today, the traffic that's there, being held  
4 up on Fridays. I don't know if you've done some  
5 studies. Isn't that doing the NOx emissions  
6 anyways?

7                   DR. WEISS: Yeah, that's why there's  
8 such high background levels --

9                   MR. AJLOUNY: Okay, so --

10                  DR. WEISS: -- down in the South Bay.

11                  MR. AJLOUNY: -- so is it going to  
12 increase that much more by having the corporation,  
13 not just Cisco, but other corporations?

14                  DR. JENNINGS: You'll be concentrating  
15 other mobile sources in the area.

16                  DR. WEISS: Right, we're talking 20,000  
17 cars coming to Cisco.

18                  MR. AJLOUNY: Yeah, but we understand  
19 that's not going to happen overnight, is that  
20 true?

21                  DR. WEISS: Well, we're looking at what  
22 the ultimate impact of projects will be.

23                  MR. AJLOUNY: And when do you estimate  
24 that ultimate impact to be? One year, ten years,  
25 20 years?

1 DR. WEISS: That's not -- I can't answer  
2 that question --

3 MR. AJLOUNY: Well, don't you --

4 DR. WEISS: -- at this point --

5 MR. AJLOUNY: -- take into consideration  
6 when you do your cumulative impact?

7 DR. WEISS: That was a full build-out.

8 DR. JENNINGS: Yeah, we take whatever  
9 was presented in the EIS or EIR, excuse me, and  
10 use that in the cumulative analysis. I do not  
11 recall what the exact build-out date was.

12 But, as a standard practice of a  
13 cumulative analysis you look at the worst possible  
14 impacts from full build-out and full operation,  
15 what-have-you.

16 MR. AJLOUNY: Okay. Thank you.

17 HEARING OFFICER FAY: Any other recross?  
18 All right. Mr. Harris, anything further?

19 MR. HARRIS: I'd just like to move my  
20 documents into evidence.

21 HEARING OFFICER FAY: Okay. I think I  
22 want to move in, if we could, I'll go through all  
23 of them. Exhibit 98, which is a new item.  
24 Exhibit 99, which is also a new item. Exhibit 40,  
25 which is the PSA comments. Exhibit 100 and

1 exhibit 101. Exhibit 102.

2 Exhibit 51. Exhibit 52A. Exhibit 52B.

3 Exhibit 103. And exhibit 80. And exhibit 18.

4 And I will wait on exhibit 95, as we still have  
5 our visual testimony.

6 But those are the ones I'd like to move  
7 into evidence at this time.

8 HEARING OFFICER FAY: Could you just,  
9 starting with exhibit 40 and continuing, I lost  
10 you there.

11 MR. HARRIS: Okay, let me find exhibit  
12 40. Okay, exhibit 40 you have. Moving down the  
13 list the next one would be exhibit 100, the  
14 biological assessment. Then the preliminary  
15 biological resources, would be our mitigation and  
16 implementation and monitoring plan is 101.

17 And then the items below as well,  
18 exhibit 102, exhibit 51, exhibit 52A, exhibit 52B,  
19 exhibit 103, exhibit 80, and exhibit 18.

20 HEARING OFFICER FAY: All right, is  
21 there objection? Okay, hearing none, so moved.  
22 Those are received into evidence at this point.

23 All right, and that concludes your  
24 direct testimony on biology?

25 MR. HARRIS: Yes, it does.

1 HEARING OFFICER FAY: Okay, then we want  
2 to take a ten-minute break and we'll return at  
3 5:30 and begin with the staff's presentation on  
4 biological resources.

5 (Brief recess.)

6 MS. WILLIS: Staff calls Linda Spiegel  
7 and Cecilia Brown and they'll need to be sworn in.

8 HEARING OFFICER FAY: Please swear the  
9 witnesses.  
10 Whereupon,

11 LINDA SPIEGEL and CECILIA BROWN  
12 were called as witnesses herein, and after first  
13 having been duly sworn, were examined and  
14 testified as follows:

15 DIRECT EXAMINATION

16 BY MS. WILLIS:

17 Q Ms. Spiegel, could you please state your  
18 name for the record.

19 MS. SPIEGEL: Linda Spiegel.

20 MS. WILLIS: And spell your last name.

21 MS. SPIEGEL: S-p-i-e-g-e-l.

22 MS. WILLIS: Was a statement of your  
23 qualifications attached to your testimony in  
24 biological resources?

25 MS. SPIEGEL: Yes.

1 MS. WILLIS: Could you briefly state  
2 your education and experience as it pertains to  
3 biological resources?

4 MS. SPIEGEL: I have two BAs that I  
5 received, one in biology and one in chemistry  
6 science in 1982. I've been working as a biologist  
7 for 20 years on a variety of projects, and have  
8 experience on a variety of species and habitat  
9 types throughout the state.

10 And I've prepared numerous biological  
11 assessments including I think six or so FSAs for  
12 the Energy Commission. And I've helped prepare  
13 another several FSAs for the Commission.

14 MS. WILLIS: Did you prepare the  
15 testimony entitled biological resources in the  
16 final staff assessment that's been previously  
17 marked as part of exhibit 7?

18 MS. SPIEGEL: Yes.

19 MS. WILLIS: And do you have any changes  
20 to your written testimony that you're proposing  
21 today?

22 MS. SPIEGEL: No.

23 MS. WILLIS: Do the opinions contained  
24 in your testimony represent your best professional  
25 judgment?

1 MS. SPIEGEL: Yes.

2 MS. WILLIS: For brevity's sake I think  
3 that we will, instead of asking her some specific  
4 questions, I'll just ask if she agrees with what  
5 the previous witnesses have testified, if that's  
6 okay with the Committee.

7 First, does the proposed MEC project  
8 comply with all applicable LORS for biology?

9 MS. SPIEGEL: There are some outstanding  
10 permits that need to be obtained, but they are all  
11 covered under various conditions in either my land  
12 use or water resources.

13 MS. WILLIS: And other than that, does  
14 the project comply with all local ordinances and  
15 regulations and standards?

16 MS. SPIEGEL: They don't strictly adhere  
17 to two City guidelines, the noise and the 100-foot  
18 setback.

19 MS. WILLIS: And can you explain?

20 MS. SPIEGEL: In the 100-foot setback  
21 the City has requested that no construction occur.  
22 This is not in the riparian corridor, itself, it's  
23 the setback from -- the 100-foot setback from the  
24 riparian corridor. And the applicant is proposing  
25 to use a 75-acre area for construction for

1 laydown, for temporary disturbance.

2 And from a biological perspective there  
3 isn't an impacts associated with that because the  
4 area's already very compacted and there's no  
5 vegetation there.

6 MS. WILLIS: In your professional  
7 opinion, does the project pose any significant  
8 adverse impacts to the environment?

9 MS. SPIEGEL: Yes. I determined that  
10 the project's emissions of NOx will result in  
11 significant indirect and cumulative impacts to  
12 serpentine soils.

13 MS. WILLIS: And did you previously hear  
14 the testimony of Dr. Weiss?

15 MS. SPIEGEL: Yes.

16 MS. WILLIS: And do you agree with his  
17 testimony regarding indirect and cumulative  
18 impacts of NOx?

19 MS. SPIEGEL: Yes.

20 MS. WILLIS: Is staff proposing any  
21 mitigation for NOx?

22 MS. SPIEGEL: Yes. The mitigation  
23 entails the purchase and long-term protection and  
24 monitoring of 116 acres on Tulare Hill, and 15  
25 acres on Coyote Ridge.

1                   And in addition, will be developing a  
2                   long-term management plan. And the management,  
3                   itself, will be funded in perpetuity. The  
4                   management plan will be written in a manner that  
5                   insures the protection and enhancement for the Bay  
6                   Checkerspot butterfly and its host species. It  
7                   involves a cattle grazing regime that you heard  
8                   of.

9                   Both Tulare Hill and Coyote Ridge were  
10                  proposed as critical habitat recently for the Bay  
11                  Checkerspot butterfly, and therefore we feel that  
12                  these mitigation measures will actually contribute  
13                  to recovery efforts.

14                 And the mitigation ratios, just to go  
15                 ahead and deal with that right here, is that the  
16                 ratio is three-to-one for Coyote Ridge, because  
17                 Coyote Ridge is considered a core population.  
18                 Tulare Hill is considered -- was mitigated at .5-  
19                 to-one because it's marginal habitat where, in  
20                 other words, the health of Coyote -- the  
21                 butterflies on Tulare Hill are dependent on the  
22                 health of the butterflies on Coyote Ridge.

23                 What we came up with was an acreage that  
24                 totaled, I believe, it was 131 acres. And we  
25                 requested that at least 10 of those acres be

1 purchased on Coyote Ridge. And how the rest came  
2 out, whether it's 116 on Tulare Hill or not, had  
3 more to do with as long as it was appropriate  
4 habitat we were happy. As long as we had at least  
5 ten acres of the core.

6 So that's the mitigation proposed.

7 MS. WILLIS: Is staff proposing any  
8 other mitigation?

9 MS. SPIEGEL: Yeah, there's an awful lot  
10 of mitigation measures actually, but mainly the  
11 project was designed to really reduce most impacts  
12 other than the NOx impacts, which even that they  
13 greatly reduced their NOx emissions to reduce that  
14 impact.

15 But for the riparian area right now,  
16 they are going to be taking 80 trees, and to  
17 mitigate for that they're going to plant 320 trees  
18 and increase the riparian corridor by, almost  
19 double it, really, by four and a half acres.

20 So they'll have to plant those, and then  
21 they'll have to monitor the success of that for  
22 several years.

23 MS. WILLIS: During the workshops and  
24 throughout this evidentiary hearings concerns have  
25 been raised about the possible effects from the

1 noise levels from this project.

2 Could you briefly explain the noise  
3 levels and their effect on the riparian corridor?

4 MS. SPIEGEL: As mentioned earlier, it's  
5 estimated that average is going to be about 60  
6 decibels. And all the literature I've looked at  
7 there is nothing to indicate that that will have  
8 any significant impact on the birds or the mammals  
9 in the area.

10 Construction noise will be high, and  
11 higher than levels known to disrupt wildlife, but  
12 those will be temporary in nature, and they won't  
13 be as high, or they'll be very equivalent to, the  
14 same noise peaks when the train goes by.

15 So, again, right now there is -- the  
16 construction would be considered temporary. Right  
17 now the area is not used widely by wildlife at  
18 all. It's very low use. So the impact is not  
19 considered significant. During operation it is  
20 not considered significant.

21 MS. WILLIS: Concern was also raised  
22 about the effect on biological resources from the  
23 lighting. Could you please tell us what you  
24 analyzed and what you concluded.

25 MS. SPIEGEL: The project will use low

1 pressure sodium illumination in accordance with a  
2 City ordinance. Lights will be shielded and aimed  
3 upwards and away from the corridor.

4 And further, the visual resources has a  
5 condition that requires all lights be shielded and  
6 prohibits light from being visible from the  
7 riparian corridor, therefore there's no impacts to  
8 the riparian corridor from lighting.

9 MS. WILLIS: A concern was raised by  
10 CARE about avian collision with the proposed 240-  
11 foot transmission line. Did you determine that  
12 this transmission line would cause a significant  
13 impact to birds in the area?

14 MS. SPIEGEL: No. And there was also a  
15 concern raised by CARE about the steam stack, the  
16 145-foot steam stack. And there's no evidence  
17 whatsoever that either of these pose a significant  
18 risk to bird collisions.

19 The nocturnal migrating birds usually  
20 fly 2000 feet above the ground, except during  
21 inclement weather. Then they will fly lower. But  
22 even with that, the majority of collisions have  
23 been documented at heights of 500. And there's  
24 very little records of collisions at anything less  
25 than 200.

1                   The greatest collision risk may occur  
2                   where the transmission line, itself, spans Fisher  
3                   Creek, which is about 20 feet in length. That is  
4                   anticipated to be very low. There may be some  
5                   collision. And with that there may be some  
6                   fatality from that collision. But none of it is  
7                   expected to be significant.

8                   MS. WILLIS: Finally, did you review the  
9                   County of Santa Clara's LORS in regards to  
10                  riparian setbacks?

11                  MS. SPIEGEL: Yes.

12                  MS. WILLIS: And do they apply to Fisher  
13                  Creek?

14                  MS. SPIEGEL: No. They apply to Coyote  
15                  Creek.

16                  MS. WILLIS: And can you explain why?

17                  MS. SPIEGEL: Because it's not Santa  
18                  Clara parkland.

19                  MS. WILLIS: Fisher Creek is not Santa  
20                  Clara parkland?

21                  MS. SPIEGEL: Yes.

22                  MS. WILLIS: Okay, thank you. I'd like  
23                  to turn to Ms. Brown. Could you please state your  
24                  name for the record.

25                  MS. BROWN: Cecilia Brown, C-e-c-i-l-i-a

1 B-r-o-w-n.

2 MS. WILLIS: And could you please state  
3 the agency you are representing and your job  
4 title?

5 MS. BROWN: Yes, I'm a fish and wildlife  
6 biologist with the U.S. Fish and Wildlife Service.

7 MS. WILLIS: Are you familiar with the  
8 biological opinion in this case?

9 MS. BROWN: Yes, I am.

10 MS. WILLIS: And can you tell us what  
11 the status of its release is?

12 MS. BROWN: I have submitted a draft  
13 biological opinion to my management for review.  
14 They will be reviewing it in an expedited fashion  
15 due to the present power crisis. And I expect  
16 that it will be released probably within the next  
17 ten days.

18 MS. WILLIS: In your opinion is staff's  
19 testimony and conditions of certification that are  
20 being proposed consistent with the biological  
21 opinion?

22 MS. BROWN: Yes, it is.

23 MS. WILLIS: And does the compensation  
24 package proposed to mitigate the impact of NOx  
25 provide sufficient protection to serpentine

1 species from these impacts?

2 MS. BROWN: Yes.

3 MS. WILLIS: I'd like to, at this time,  
4 move our section on biological resources in the  
5 FSA into the record.

6 HEARING OFFICER FAY: Is there any  
7 objection?

8 MS. DENT: I have no objection to the  
9 prepared testimony and to the testimony of the CEC  
10 witness. I'll state my objection again to the  
11 testimony of the U.S. Fish and Wildlife Service  
12 witness for the record, because it was not  
13 previously distributed or introduced.

14 HEARING OFFICER FAY: Okay, your  
15 objection is note. And we will receive the staff  
16 testimony at this point into the record.

17 MS. WILLIS: Thank you. These witnesses  
18 are available for cross-examination.

19 HEARING OFFICER FAY: All right. Mr.  
20 Harris?

21 MR. HARRIS: I'd like to thank the  
22 witnesses for being available for cross-  
23 examination. I have no questions.

24 HEARING OFFICER FAY: Okay. City of San  
25 Jose.

1 MS. DENT: Thank you. I have a few.

2 CROSS-EXAMINATION

3 BY MS. DENT:

4 Q Starting first with the CEC witness, I'm  
5 going directly to the issue of the mitigation  
6 acreage for the serpentine habitat.

7 Dr. Weiss testified earlier that the  
8 formula and the methodology for determining the  
9 amount of habitat and the mitigation requirements  
10 for the project were the CEC's. In fact, he  
11 deferred to you on that subject.

12 In fact, that methodology and the  
13 formula were not yours, they were the applicant's,  
14 isn't that correct?

15 MS. SPIEGEL: It depends what you're  
16 referring to. There was a formula that the  
17 applicant proposed that I changed. And that's in  
18 my testimony. And then the compensation ratios  
19 were developed by Fish and Wildlife Service and  
20 myself.

21 MS. DENT: So, referring to your  
22 testimony, specifically to page 491 of your  
23 testimony, you indicate in the middle of the page  
24 that Calpine/Bechtel proposed the following  
25 mitigation package. And that was to acquire and

1 manage cattle grazing on 116 acres and 15 acres.

2 So is that your testimony that that was  
3 their proposal? They proposed that mitigation  
4 package? Or is that an inaccurate statement?

5 MS. SPIEGEL: I need to find out exactly  
6 where you are, but I --

7 MS. DENT: I'm sorry, you're right.  
8 We're going to have the same problem with the  
9 pages. Your page is probably going to be like  
10 493.

11 MS. SPIEGEL: Okay, see, it says as a  
12 result of this conclusion. You're not reading the  
13 whole thing. And above it it talks about we had a  
14 workshop.

15 MS. DENT: Correct.

16 MS. SPIEGEL: So they proposed a  
17 mitigation package to me at this workshop. And  
18 then we tweaked with the -- they actually provided  
19 a formula, and that's in their NOx filings.

20 And then I didn't completely agree with  
21 it, because they used a weighted average and I  
22 wanted a direct deposition, so I changed it to  
23 reflect what I felt was a better way to do it, and  
24 with Fish and Wildlife in consultation.

25 They also proposed originally just

1 Tulare Hill. And we wanted acres on Coyote Ridge;  
2 plus the 116 acres alone did not meet our  
3 compensation ratio once we calculated that. So  
4 they had to find more acres, and again, we just  
5 requested that at least ten be on Coyote Hill.

6 So, I hope that answers your question.  
7 A lot of this was, in fact, my doing.

8 MS. DENT: Well, again I'm looking, now  
9 I'm going to go back a couple of paragraphs in  
10 your testimony to an earlier point in time where  
11 you indicate in your testimony that to reduce  
12 impacts to serpentine endemics on Tulare Hill,  
13 Calpine/Bechtel proposed to manage the 116 acre  
14 portion of Tulare Hill under its control -- and  
15 that's a reference to 1999 -- for 30 years.

16 So that original core proposal for the  
17 116 acres in 1999 apparently came from Calpine/  
18 Bechtel.

19 MS. SPIEGEL: Yes.

20 MS. DENT: Is that correct?

21 MS. SPIEGEL: Um-hum.

22 MS. DENT: And then you held this  
23 workshop and you further on indicate in your  
24 testimony that management of -- Dr. Weiss stated  
25 that management of Tulare Hill alone would not

1 secure the Bay Checkerspot butterfly population  
2 due to high sensitivity of the Coyote Ridge area.

3 And so this is where you indicate that  
4 you started looking further than just Tulare Hill  
5 in terms of impact on the butterfly, correct?

6 MS. SPIEGEL: Yeah, it was a result of a  
7 workshop we had when we got as much information as  
8 we possibly could.

9 MS. DENT: But the original proposal for  
10 the 116 acres on Tulare Hill for the area directly  
11 impacted by the plant hasn't changed since 1999,  
12 has it?

13 MS. SPIEGEL: Can you ask me that again,  
14 restate that?

15 MS. DENT: Well, there's been a proposal  
16 to manage 116 acres on Tulare Hill since 1999, is  
17 that correct?

18 MS. SPIEGEL: There's been a proposal to  
19 manage 116 acres on Tulare Hill, yes.

20 MS. DENT: And that was the applicant's  
21 proposal?

22 MS. SPIEGEL: That was one of them.

23 MS. DENT: Now, the compensation formula  
24 that you're talking about, that's referenced a  
25 little further down in your testimony, I'm sorry

1 on my copy it's page 491.

2 MS. SPIEGEL: Okay.

3 MS. DENT: And the compensation formula  
4 was based on a percentage of ambient levels, was  
5 based on comparing nitrogen deposition rates from  
6 Metcalf Energy Center to nitrogen deposition rates  
7 at ambient levels, is that your understanding of  
8 the formula?

9 MS. SPIEGEL: Yes, it's exactly what the  
10 formula is. It says right here that whatever the  
11 deposition rate on Tulare Hill was, it represented  
12 13.5 percent of the ambient levels.

13 MS. DENT: Who proposed to use that  
14 formula that you would compare ambient levels to  
15 deposition rates from the project? Who proposed  
16 that formula from the very beginning? Was that  
17 your idea? Or was that Calpine/Bechtel's idea?

18 MS. SPIEGEL: Well, that was a  
19 combination. Like I said, they proposed one  
20 formula to use a weighted average. I decided that  
21 I wanted to use direct deposition. So it's both.  
22 And it was also a result of a workshop, and  
23 discussions with Fish and Wildlife. Nobody worked  
24 in a -- I mean --

25 MS. DENT: My question relates to the

1 use of the comparison of ambient to contribution.  
2 I understand that they proposed using a weighted  
3 average, which indicated higher ambient levels  
4 than you thought were appropriate.

5 MS. SPIEGEL: That's not what the  
6 weighted average really dealt with, but what's  
7 your question?

8 MS. DENT: Well, my question is who came  
9 up with the idea of calculating mitigation based  
10 on comparing ambient levels to contribution  
11 levels?

12 MS. SPIEGEL: The applicant.

13 MS. DENT: And do you know where they  
14 got that idea from? Do you know what other  
15 project has ever used that kind of formula? Have  
16 you ever --

17 MS. SPIEGEL: It doesn't really matter  
18 to me where it came from. I thought it made a lot  
19 of sense. Every time we come up with mitigation  
20 we look at the specifics of the project, and you  
21 look at everything. Mitigation is innovative, and  
22 it's adaptive, and it's specific to a situation.  
23 And there was one time no mitigation, and then  
24 there was, and some mitigations don't work and you  
25 throw them away. And others you think of and you

1 go I like that. And this, to me, was commensurate  
2 with the impacts.

3 MS. DENT: So, just so that I  
4 understand, you're not aware of any other project  
5 for which this type of formula has been used?

6 MS. SPIEGEL: No, but I wouldn't be  
7 surprised if it's used in the future.

8 MS. DENT: And this -- so you start with  
9 looking at how much of an increase in nitrogen  
10 deposition over ambient levels there are from this  
11 project. That's where you start from with this  
12 formula for coming up with mitigation acreage, is  
13 that accurate?

14 MS. SPIEGEL: I started with what? I'm  
15 sorry?

16 MS. DENT: Well, you start with a  
17 formula that compares nitrogen deposition from  
18 this project to nitrogen deposition from other  
19 sources.

20 MS. SPIEGEL: No. We looked at the  
21 ambient levels. And we looked at the  
22 contribution, the percent of contribution that  
23 this project would be adding, what percentage  
24 MEC's contribution is in relation to the ambient  
25 situation.

1 MS. DENT: Okay, thank you. You did not  
2 being by looking at the total amount of acreage  
3 that is impacted by the project?

4 MS. SPIEGEL: At one point we did. But  
5 I thought the biggest impacts in my mind were on  
6 Tulare Hill because that was directly adjacent.  
7 And then our other big area of concern was Coyote  
8 Ridge, so those are the areas that I focused in  
9 on.

10 The applicant actually looked at the  
11 bigger -- their mitigation package did look at all  
12 the serpentine habitats.

13 Again, this is what we came up with.

14 MS. DENT: And, again, in the same  
15 section of your testimony, the area that will be  
16 impacted by this project, by Metcalf Energy  
17 Center, the area of serpentine habitat, is 339  
18 acres on Tulare Hill, and the number for Coyote  
19 Ridge does show up here, it's 2328 acres.

20 MS. SPIEGEL: Yeah, but that's just what  
21 represents, 339 acres is Tulare Hill.

22 MS. DENT: And that entire area will be  
23 affected -- equally affected by Metcalf Energy  
24 Center. In other words it isn't --

25 MS. SPIEGEL: Yes.

1 MS. DENT: -- just that 116 acres is  
2 going to be impacted, the whole 339 acres is going  
3 to be impacted?

4 MS. SPIEGEL: Yes.

5 MS. DENT: And, again, we're adding  
6 enough nitrogen from this project to take the  
7 nitrogen deposition from 8.5, we're adding another  
8 1.15, to 9.6, is that correct?

9 MS. SPIEGEL: Where are you getting  
10 those numbers?

11 MS. DENT: Well, that's page 486 on my  
12 version of your testimony. I think it's a couple  
13 pages later for you.

14 MS. SPIEGEL: The 8.4 is the ambient,  
15 and to the best from our modeling we determined  
16 that -- I'm not sure what numbers here, it's all  
17 in here, that would be contributed.

18 And so the simplest way to do it is to  
19 add them up, and then come up with a cumulative.  
20 But it's probably, you know, it's a model, it's an  
21 estimate.

22 MS. DENT: Right, your testimony  
23 indicates the estimated annual direct deposition  
24 of nitrogen to be 1.13.

25 MS. SPIEGEL: Okay, that would be the

1 estimated annual direct --

2 MS. DENT: Right, we'll do cumulative in  
3 a minute.

4 MS. SPIEGEL: Yeah, hold on, I want to  
5 make sure that this is -- yeah, this was based on  
6 these isopleths maps.

7 MS. DENT: So, now I'm -- you're taking  
8 Nox concentrations on 339 acres, up from 8.4 to  
9 1.13 -- up to, I'm sorry, 9.4 or 9.5 to the top  
10 end of the range where you expect an impact on  
11 plant life, according to your earlier estimate in  
12 the PSA.

13 Why is that not a significant impact on  
14 the entire 339 acres?

15 MS. SPIEGEL: I never said that it  
16 wasn't a significant impact. I said it is a  
17 significant impact. I do --

18 MS. DENT: So you --

19 MS. SPIEGEL: -- believe that the  
20 mitigation reduces to less than significant  
21 levels.

22 MS. DENT: So you have a significant  
23 impact, then, in your view, on the entire 339  
24 acres.

25 MS. SPIEGEL: And beyond. Wherever this

1 isopleth hits in certain areas you're going to  
2 have some contribution from the MEC nitrogen.

3 MS. DENT: I'm just going -- I'm now  
4 just going to MEC and Tulare Hill. So there's a  
5 significant impact on the entire 339 acres of  
6 Tulare Hill.

7 Now, then you have an increase of .13 in  
8 the deposition on Coyote Ridge. Is it your view  
9 that that's a significant impact on Coyote Ridge?

10 MS. SPIEGEL: Yes.

11 MS. DENT: The increase of .13.

12 MS. SPIEGEL: Yes.

13 MS. DENT: So you have a significant  
14 impact then on the entire 2328 acres?

15 MS. SPIEGEL: Yes. There's a  
16 significant impact occurring right now.

17 MS. DENT: I'm asking about this  
18 project, because --

19 MS. SPIEGEL: Well, the reason the  
20 project, in and of itself, is not a problem, but  
21 it's contributing to an already stressed  
22 ecosystem.

23 MS. DENT: Right, so there is a  
24 significant impact just directly from this  
25 project. We haven't gone to cumulative yet at

1 all. We're just talking about from this project.

2 So, we have a significant -- again, I  
3 had trouble following in the testimony, we have a  
4 significant impact, then, to the entire 2600-some-  
5 odd acres, I guess, correct?

6 MS. SPIEGEL: Yeah.

7 MS. DENT: So we have a significant  
8 impact to the entire 2600-some-odd acres, but it's  
9 your opinion that mitigating on 131 acres is  
10 adequate mitigation for a significant impact on  
11 2600 acres?

12 MS. SPIEGEL: I'm saying that I believe  
13 that, for one, without the mitigation there's no  
14 protection occurring right now. With the  
15 mitigation we will have protection. And I'm  
16 saying that you can't make one project pay for the  
17 current situation that you're in right now. But  
18 you can make them pay for their contribution and  
19 their impacts. You have to make it commensurate  
20 with their impacts.

21 MS. DENT: Well, let's talk about that  
22 for a moment. The 339 acres, at least, at Tulare  
23 Hill does support habitat for the butterfly right  
24 now. Apparently the current background annual  
25 concentrations, if they indeed are 8.4 kg per

1           hectare per year, is not preventing the habitat  
2           from thriving. There is a butterfly population  
3           there currently.

4                       MS. SPIEGEL: I wouldn't call it  
5           thriving on Tulare Hill at all. And that's  
6           because it's being grazed. If it wasn't being  
7           grazed, then the fertilizer from the nitrogen  
8           would allow the grasses to come in, and there  
9           would not probably be a butterfly population  
10          there.

11                      MS. DENT: So current, but current  
12          management of the property is allowing that to  
13          occur?

14                      MS. SPIEGEL: Is allowing what to occur?

15                      MS. DENT: Is allowing the habitat to  
16          occur, the current management of the property and  
17          current annual NOx concentrations on the property  
18          still permit butterfly habitat.

19                      MS. SPIEGEL: Yes. There is the host  
20          species there right now. Butterflies haven't been  
21          seen in awhile, but they're there.

22                      MS. DENT: After the project comes in  
23          you're going to have higher NOx concentrations,  
24          you know that for sure, on the whole 339 acres.  
25          And you don't know for sure whether you're going

1 to have cattle grazing on that entire 339 acres,  
2 do you?

3 MS. SPIEGEL: I do know that we'll be  
4 managing the other 116 in perpetuity which we have  
5 no, there's no protection in place now to keep it  
6 that way.

7 MS. DENT: So on 116 acres you know that  
8 there will be a management scenario in place that  
9 will --

10 MS. SPIEGEL: For 131 acres total, yes.

11 MS. DENT: On Tulare Hill --

12 MS. SPIEGEL: 116.

13 MS. DENT: Okay. Now, looking at the  
14 cumulative issue, I just want to make sure that I  
15 understand the testimony on that.

16 Again, the previous witnesses indicated  
17 that the cumulative deposition rate of 1.5 on  
18 Tulare Hill that's referenced on page 486 of the  
19 testimony that I have, is a modeling estimate for  
20 MEC, for Metcalf Energy Center, CVRP, Cisco's  
21 project, and for residential housing planned for  
22 the urban reserve further south.

23 MS. SPIEGEL: Yes.

24 MS. DENT: Is that your understanding?

25 MS. SPIEGEL: Yes.

1 MS. DENT: So, if MEC is 1.13 of that  
2 1.5, then we are left to understand that the  
3 entire Cisco project and 20,000 houses are going  
4 to be responsible for .37 of that 1.5?

5 MS. SPIEGEL: I don't know if that  
6 modeling, if you could use the modeling in that  
7 way. I don't know if it's additive like that or  
8 not. I can't answer that.

9 MS. DENT: Well, what was your  
10 understanding of that model when you put this in  
11 your testimony?

12 MS. SPIEGEL: I looked at the results of  
13 the model, and I got, again you look at the  
14 isopleths and they looked at the ambient, as well  
15 as the other three, but it does not mean that each  
16 one is in itself additive. I don't know what goes  
17 into the model to make that, to come up with that  
18 final --

19 MS. DENT: But it was your understanding  
20 that, again as the previous witness testified,  
21 that the cumulative depositions refer to --

22 MS. SPIEGEL: All three.

23 MS. DENT: -- all three?

24 MS. SPIEGEL: Right.

25 MS. DENT: And that the direct

1           depositions refer to just Metcalf Energy Center?

2                   MS. SPIEGEL:   Yes.

3                   MS. DENT:   And that same analysis  
4           applies to Coyote Ridge, as well?

5                   MS. SPIEGEL:   Yes.

6                   MS. DENT:   And you don't -- now the  
7           cumulative depositions on Coyote Ridge, did you  
8           have any understanding about whether cumulative  
9           depositions at Coyote Ridge were considering other  
10          sources?

11                   It would appear that if you have  
12          cumulative depositions at Coyote Ridge of 3 kg per  
13          hectare per year, and only 1.5 at Tulare Hill,  
14          that the cumulative depositions at Coyote Ridge  
15          must have been considering more sources than the  
16          cumulative depositions for Tulare Hill.  Would you  
17          agree with that?

18                   MS. SPIEGEL:   Just a second, I've got to  
19          make sure that this is correct here.

20                   HEARING OFFICER FAY:   I'd just caution  
21          you that unless Ms. Spiegel is qualified as a  
22          modeling expert, your questions into the details  
23          of the model are really not that helpful.

24                   MS. DENT:   Well, --

25                   HEARING OFFICER FAY:   I heard her

1           testify that she relied on the results of the  
2           model without having created the model.  And so,  
3           she may not be the right witness for some of these  
4           questions.

5                       MS. DENT:  Her analysis was based on  
6           comparing depositions from this project to  
7           depositions from other projects, and she's  
8           testified that she thought that was a proper way  
9           to do the analysis and it adequately mitigated.

10                      So, I'm just trying to make sure I know  
11           how she understood this model to work.

12                      MS. SPIEGEL:  Again, I relied on our air  
13           quality people to tell me that they agreed with  
14           the assumptions of the model, and they agreed with  
15           the results of the model.

16                      And I took the numbers from the model.  
17           I had nothing to do with the modeling, itself.

18                      MS. DENT:  So, you have no, then,  
19           opinion on what went -- you have no opinion on the  
20           meaning of the cumulative depositions on Coyote  
21           Ridge and what other nitrogen depositions were  
22           taken into account in looking at cumulative  
23           depositions --

24                      MS. SPIEGEL:  I'll tell you, I have an  
25           opinion on it that I think that it needed to take

1           into account the two projects that were mentioned  
2           earlier, because those are the two projects we  
3           know that could have some major nitrogen  
4           contributions to the area, and the Metcalf.

5                        So, yeah, we requested that all those  
6           things be modeled.

7                        MS. DENT: I have just really I think  
8           one last question, and this is about the  
9           background NOx concentrations.

10                      Did the background NOx concentration  
11           that again is plugged into the model that you  
12           relied on for determining that the mitigation is  
13           adequate, the background concentration of 8.4.  
14           That is not based on any information on background  
15           concentrations actually on Tulare Hill or Coyote  
16           Ridge, is it, to your knowledge? It's based on  
17           areawide background concentrations?

18                      MS. SPIEGEL: Right. It's based on the  
19           best information we have for this area.

20                      MS. DENT: Well, it would be possible,  
21           certainly, to take estimates on Tulare Hill and  
22           Coyote Ridge, wouldn't it?

23                      MS. SPIEGEL: I don't know. I'd have to  
24           talk to -- to ask Stuart how feasible that would  
25           be.

1 MS. DENT: So you didn't have any  
2 discussion with the applicant about that?

3 MS. SPIEGEL: About taking -- I believe  
4 we did in a workshop and it didn't appear to be  
5 something that we could do right away.

6 We also felt that the information we had  
7 was probably pretty representative.

8 MS. DENT: Are you -- have you reviewed  
9 for the CEC mitigation packages for other similar  
10 projects?

11 MS. SPIEGEL: For other Commission  
12 projects, you mean mitigation package --

13 MS. WILLIS: Could I ask for a  
14 clarification. Are you asking for other power  
15 plants and certain sizes, or --

16 MS. DENT: Let's -- we'll start with  
17 have you, in your role at the CEC, reviewed any  
18 other habitat mitigation packages for power plant  
19 projects?

20 MS. SPIEGEL: Certainly. Every one --

21 MS. DENT: And how many of those have  
22 you reviewed?

23 MS. SPIEGEL: How many? I've written  
24 the assessments on at least six, and I've reviewed  
25 or helped on another I don't know how many.

1 MS. DENT: Now, how many of those, if  
2 any, have involved the nitrogen oxide deposition?

3 MS. SPIEGEL: Right now we've had it  
4 discussed in another project down south.

5 MS. DENT: And does that involve  
6 Checkerspot butterfly habitat or some other  
7 habitat?

8 MS. SPIEGEL: A different Checkerspot  
9 butterfly, yes.

10 MS. DENT: And that project, the name of  
11 that project is?

12 MS. SPIEGEL: I think it's Blythe. I'm  
13 pretty sure.

14 MS. DENT: And do you know whether the  
15 applicant in that project is proposing the same  
16 methodology that is proposed in this project for  
17 determining the appropriate amount of habitat?

18 MS. WILLIS: I'm going to object on  
19 relevance. We're going into another project at  
20 this point.

21 MS. DENT: I think it's highly relevant  
22 to know whether or not this project is typical in  
23 terms of the methodology, since we've really had  
24 testimony that there was no precedent --

25 HEARING OFFICER FAY: Well, I have

1       doubts about the relevance but I'm going to allow  
2       the question because I think, you know, you've got  
3       an entirely different environment down there, but  
4       I'm going to allow the question. Go ahead,  
5       please.

6                   MS. SPIEGEL: I was involved in some of  
7       that. They reviewed our mitigation here. The  
8       problem was they didn't have as much data as we  
9       did here. Some of the work that's been done here  
10      that wasn't on serpentine habitat.

11                   They already had areas that were  
12      protected, so unlike here, that wasn't something  
13      that Fish and Wildlife Service down there wanted  
14      to pick up right away. Instead they wanted to get  
15      more information.

16                   There was just so many differences  
17      between the two that we felt that the calculations  
18      used here wouldn't apply there. And we came up  
19      with something completely different; related, but  
20      different.

21                   MS. DENT: Well, let me ask the question  
22      maybe a little bit differently. Are you aware of  
23      any other project that you've reviewed where  
24      there's been a discount applied to the acreage  
25      based on background or ambient levels similar to

1 the discount that was applied to the acreage on  
2 this project?

3 Your formula, you start out initially by  
4 discounting the 339 acres on Tulare Hill to 13.5  
5 percent, because of ambient -- because ambient  
6 conditions are such that you think their  
7 responsible for the remaining 87.5 percent, or --  
8 my math's not good, but -- are you aware -- have  
9 you done that in any other projects where you  
10 initially, right at the outset, discount the  
11 impacted acreage because there are ambient  
12 conditions? Because of ambient conditions.

13 MS. SPIEGEL: I don't think I discounted  
14 anything. I took, like I said we came up with  
15 some formulas that we felt made sense. That we  
16 looked at their contribution to the existing  
17 situation. There's no discount given.

18 MS. DENT: Well, I'm going to read a  
19 sentence in your testimony. Multiplying 3.5  
20 percent by the 339 acres on Tulare Hill that will  
21 be directly impacted, yields 14.5 acres.

22 MS. WILLIS: Could I ask you to refer to  
23 the page you have --

24 MS. DENT: It's 491.

25 SPEAKER: 493.

1 MS. SPIEGEL: Yeah, and I know where  
2 that is on here.

3 MS. DENT: So you took the 339 acres to  
4 begin with that you say will be directly impacted  
5 and you only looked at 13.5 percent of that.

6 MS. DENT: So you took the 339 acres to  
7 begin with that you say will be directly impacted,  
8 and you only looked at 13.5 percent of that. And  
9 that 13.5 percent comes from comparing nitrogen  
10 deposition from this project to nitrogen  
11 deposition with ambient levels, and it's really my  
12 question is whether or not you, in other projects  
13 that you've reviewed, have ever used that type of  
14 methodology before.

15 MS. SPIEGEL: Like I said, every project  
16 we're very innovative and different. And this one  
17 I don't believe I've used in the past. But I do  
18 think it will be used in the future. And I hope  
19 it's used in this area.

20 HEARING OFFICER FAY: I'm going to just  
21 interject --

22 MS. DENT: That's -- that's --

23 HEARING OFFICER FAY: That's all you  
24 have?

25 MS. DENT: That's --

1 HEARING OFFICER FAY: Okay, --

2 MS. DENT: I'm going to look at my notes  
3 and --

4 HEARING OFFICER FAY: -- I'm going to  
5 issue a tentative order, subject to support by the  
6 Committee, but the parties in this case, I  
7 understand, have all been served -- did staff  
8 serve its testimony in hard copy on the parties?

9 MS. WILLIS: Yes, we --

10 HEARING OFFICER FAY: You don't rely on  
11 the website?

12 MS. WILLIS: No, no. The City of San  
13 Jose has received --

14 HEARING OFFICER FAY: Okay, so --

15 MS. WILLIS: -- they received --

16 HEARING OFFICER FAY: -- after this  
17 hearing all parties are directed to use the hard  
18 copy that they've been served. It avoids this  
19 kind of reference problem.

20 The webpage is a great convenience, but  
21 if you're going to cross-examine a witness you've  
22 got to tell them exactly where in their testimony  
23 the line is that you're quoting. Otherwise, it's  
24 very unfair and I think it wastes a lot of time.

25 So that's an order subject to Committee

1 approval.

2 MS. DENT: I had no idea there was a  
3 difference in the pagination.

4 HEARING OFFICER FAY: I understand. I  
5 understand. And this is not -- you're not the  
6 first one to make this mistake. And it's subtle  
7 enough that it's an easy mistake to make.

8 But I want people to be on notice in the  
9 future, because if you download from the web and  
10 then print it out, your pagination won't match.  
11 And we all need to be on the same page.

12 (Laughter.)

13 HEARING OFFICER FAY: As it were. Okay.  
14 Is CVRP here? No.

15 MS. DENT: I'd like a moment to -- you  
16 asked if I was done. I said I'd like a moment --

17 HEARING OFFICER FAY: Oh, I'm sorry, I  
18 thought you said you were done.

19 MS. DENT: I do have a couple questions  
20 for the Fish and Wildlife Service witness, since  
21 that person testified.

22 I'd like you to state your position with  
23 the U.S. Fish and Wildlife Service, and what the  
24 review process will be for your draft opinion.

25 MS. BROWN: My position is Fish and

1 Wildlife Biologist. It will be reviewed by my  
2 supervisor, and then by the Division Chief of the  
3 Endangered Species Division. And then by the  
4 Assistant Field Supervisor of the office.

5 MS. DENT: And will the Assistant Field  
6 Supervisor then be the one to sign the biological  
7 opinion?

8 MS. BROWN: Yes.

9 MS. DENT: So, --

10 MS. BROWN: It will either be the  
11 Assistant Field Supervisor or the Field Supervisor  
12 who signs the opinion. One of those two people  
13 will do the final review and sign the opinion.

14 MS. DENT: So, it has two or three  
15 levels of review to go through --

16 MS. BROWN: Yes.

17 MS. DENT: -- after you? Thank you.

18 HEARING OFFICER FAY: Anything further,  
19 Ms. Dent?

20 MS. DENT: No, thank you.

21 HEARING OFFICER FAY: The next party is  
22 Mr. Ajlouny.

23 MR. AJLOUNY: Ajlouny. Just to follow  
24 on so I don't forget my thought there, is there  
25 going to be an opportunity to cross-examine the

1 person that signs that document? Is that part of  
2 the process? No? So is that going to be entered  
3 as testimony or anything, that document?

4 HEARING OFFICER FAY: It will be entered  
5 as just what it is, the official biological  
6 opinion from the U.S. Fish and Wildlife Service.  
7 Ms. Brown is here today just to comment on the  
8 degree, in her opinion, of consistency between the  
9 draft that she's prepared and the staff  
10 conditions.

11 MR. AJLOUNY: Yeah, and I understand,  
12 I'm getting the flow of all this stuff. But I'm  
13 just wondering, this is a document that's going to  
14 be entered into testimony, correct?

15 HEARING OFFICER FAY: The record, if it  
16 is further delayed, it is conceivable the  
17 Commission could rule on this power plant before  
18 the biological opinion comes out. That has  
19 happened in the past.

20 And as I said before, if the biological  
21 opinion requires, if you will, stiffer  
22 requirements than the conditions, then those  
23 federal requirements will be implemented in the  
24 biological plan.

25 So, it can only get tougher if the feds

1           impose it. But we do this kind of thing all the  
2           time in cases. We take testimony from Fish and  
3           Wildlife on the status of their review. And if  
4           they've already submitted a draft, as Ms. Brown  
5           has, then sometimes the author comes in and  
6           explains whether the draft is consistent with the  
7           staff position.

8                       MR. AJLOUNY: So it sounds like this has  
9           a pretty significant impact on the whole process.  
10          I mean there could be a ruling on this plant, and  
11          then this thing comes out and says stiffer, and  
12          then there will be some maybe changes on the  
13          license --

14                      HEARING OFFICER FAY: It's conceivable,  
15          although --

16                      MR. AJLOUNY: Okay,

17                      HEARING OFFICER FAY: -- the testimony  
18          today indicates it's probably not going to be  
19          radically different.

20                      MR. AJLOUNY: Okay. And the fact that  
21          it's such a powerful document and it's being  
22          signed, you know, whether it's considered  
23          testimony, it's just significant in this whole  
24          process, I find it very difficult to accept that  
25          there's no chance to cross-examine or question.

1 Just a comment.

2 I'll go on with my questioning.

3 CROSS-EXAMINATION

4 BY MR. AJLOUNY:

5 Q Linda, do you consider the calculations  
6 that were just discussed about the percentages  
7 times acreage and all that, to come out with how  
8 many acres, I think it comes out to 131 acres for  
9 Calpine/Bechtel to reserve for habitat, the  
10 butterfly with the cows and everything, is that  
11 conservative estimate?

12 MS. SPIEGEL: No. Conservative? Yes,  
13 it's used very conservative assumptions to get  
14 there. It over -- the impacts were determined  
15 using conservative estimates to over-estimate the  
16 impact.

17 MR. AJLOUNY: Okay, but looking -- okay,  
18 maybe I'll be more specific. I should just take  
19 Commissioner Laurie's approach and tell you what  
20 my issue is, and then you can just answer it.

21 My issue is looking at the calculations,  
22 and I'm going to say pages, top of page 488, first  
23 paragraph, it uses numbers like the last sentence:  
24 These maps show estimated annual direct and --

25 MS. SPIEGEL: Cumulative.

1                   MR. AJLOUNY:  -- des -- oh, my goodness,  
2                   of nitrogens to be 1.13 and 1.15 on Tulare Hill  
3                   and, you know, .13 and 3 on Coyote Ridge.

4                   And I would think, to be conservative,  
5                   make sure we cover all bases, having that data, I  
6                   was wondering why the 1.5 was not used in the  
7                   simple math of 1.5 divided by I think 8.4, comes  
8                   out to 17 plus percent.  And why .3 or 3 wasn't  
9                   used, you know, I mean it's --

10                  MS. SPIEGEL:  That's because we looked  
11                  at the impacts associated directly -- well, it's  
12                  an indirect impact, but those that were from MEC,  
13                  and then what you have is this ratio, that's why  
14                  you say three-to-one, or one-to-one, and that  
15                  takes on that cumulative, that helps deal with  
16                  that cumulative impact.

17                  MR. AJLOUNY:  Okay, but what --

18                  MS. SPIEGEL:  So you get a lot more if  
19                  you say three-to-one than if I used 1.5 instead of  
20                  1.1.

21                  MR. AJLOUNY:  Okay, the way I understood  
22                  your calculations is what you took is 1.13 over  
23                  8.4 and came out with 13-something percent.

24                  MS. SPIEGEL:  Right.

25                  MR. AJLOUNY:  Multiplied that times 339

1           acres, because that's how much is Tulare Hill, and  
2           you came out with the 45.6 acres. Right?

3                   MS. SPIEGEL: Yes.

4                   MR. AJLOUNY: Okay, so I'm wondering why  
5           you chose to use the 1.13 and then use 1.5 to be  
6           more conservative. Am I missing the boat here?

7                   MS. SPIEGEL: Yeah, I just answered  
8           that. What I said was we were looking at the  
9           impacts from -- we're having them mitigate the  
10          impacts from their project.

11                   But what we do to deal with the  
12          cumulative impacts is we multiply it by a ratio of  
13          three-to-one, or you know, two-to-one. That deals  
14          with the cumulative impacts.

15                   If I was to multiply by 1.5 instead of  
16          1.13, and did a one-to-one, it really wouldn't,  
17          it's not as good a mitigation as if you do the  
18          direct -- I keep saying direct, but that means  
19          something different here -- if you take the  
20          impacts associated with MEC alone, and then you  
21          multiply it by a ratio of four-to-one, or three-  
22          to-one, or two-to-one, then you have that  
23          cumulative impact factored into that ratio. That's  
24          why you do that.

25                   MR. AJLOUNY: When I read this and I

1           went back and forth on the math and thought I  
2           understood it. I guess I'm assuming when you say  
3           1.13 and 1.15, I thought they meant 1.13 to 1.15.  
4           Does that mean -- 1.13 --

5                       MS. SPIEGEL: One is for indirect and  
6           one is for cumulative.

7                       MR. AJLOUNY: So the 1.15 is cumulative?

8                       MS. SPIEGEL: Yes.

9                       MR. AJLOUNY: So that's where I've been  
10          messing up, okay. I've been wanting to know that  
11          for weeks. So that's good. I thought I was onto  
12          something, how about that?

13                      You mentioned earlier in the earlier  
14          questions on cross-examination by your attorney  
15          there that noise was a significant impact, you  
16          know, the first three questions I think she said  
17          noise was a significant impact.

18                      MS. SPIEGEL: No, I said it was not  
19          significant.

20                      MR. AJLOUNY: No? So there's no  
21          significant impact by noise?

22                      MS. SPIEGEL: Oh, I may know what you're  
23          talking about. I said during construction the  
24          construction noises will be higher, they will  
25          exceed levels known to be --

1 MR. AJLOUNY: The LORS.

2 MS. SPIEGEL: I'm sorry?

3 MR. AJLOUNY: The LORS?

4 MS. SPIEGEL: No. They will exceed  
5 levels known that wildlife can -- thank you, known  
6 to disturb wildlife. They will exceed that. But  
7 they will be temporary in nature, and there aren't  
8 much wildlife there now.

9 So I don't consider it to be  
10 significant.

11 MR. AJLOUNY: Okay. And so you probably  
12 agree with the applicant's witness then that  
13 whistle, blowing of that whistle or whatever that  
14 is, that steam blower wouldn't be --

15 MS. SPIEGEL: That's actually 100 db.  
16 And it will be disruptive, yes. It will be  
17 disruptive. But it will be a temporary impact.

18 MR. AJLOUNY: Okay, so it's not going to  
19 be anything significant, okay.

20 HEARING OFFICER FAY: Could you state --

21 MS. SPIEGEL: Oh, no.

22 MR. AJLOUNY: Okay. The way I  
23 understand Tulare Hill and how it plays the role  
24 of the butterfly is it's used as a hop. From  
25 Santa Teresa you hop on Tulare Hill to get to

1 Coyote Ridge, is that a correct understanding?

2 MS. BROWN: Yes, that's correct.

3 MR. AJLOUNY: Okay, so if Tulare Hill  
4 was significantly impacted, then Coyote Ridge  
5 would be significantly impacted, is that true?

6 MS. BROWN: Coyote Ridge serves as the  
7 source population for any butterflies that would  
8 be migrating to Tulare Hill, and subsequently to  
9 Santa Teresa Hills, --

10 MR. AJLOUNY: Okay.

11 MS. BROWN: -- as Stuart Weiss testified  
12 earlier, the --

13 MR. AJLOUNY: Okay.

14 MS. BROWN: -- habitat in Santa Teresa  
15 is currently marginal to poor due to the absence  
16 of grazing.

17 MR. AJLOUNY: Okay, so it goes the other  
18 way, it goes from Coyote Ridge to Tulare Hill to  
19 Santa Teresa Hill?

20 MS. BROWN: That's correct.

21 MR. AJLOUNY: Okay. And even though  
22 it's not a highly populated by the butterfly, if  
23 Tulare Hills, two-thirds were significantly  
24 impacted by habitat of the butterfly would it  
25 significantly impact the Santa Teresa Hill?

1 MS. BROWN: Currently Santa Teresa  
2 Hills, like I said, is poor habitat due to the  
3 absence of grazing. And, again, Coyote Ridge is  
4 the ultimate --

5 MR. AJLOUNY: Okay.

6 MS. BROWN: -- source population. It is  
7 possible if Santa Teresa Hills were restored to  
8 good habitat and Tulare Hill were restored to good  
9 habitat, that there would be some -- that Santa  
10 Teresa Hills could provide a source, also, to  
11 Tulare Hill.

12 Again, the habitat quality currently on  
13 Tulare Hill is quite marginal. So, I don't, at  
14 this time Tulare Hill does not provide a source  
15 population for Santa Teresa Hills.

16 MR. AJLOUNY: Okay, so maybe I'm a  
17 little confused. What's all the mitigation for if  
18 Tulare Hill is going to be so severely impacted,  
19 you know, and it's really --

20 MS. BROWN: I didn't say it was going to  
21 be so severely impacted. It's currently marginal  
22 habitat. And the applicant has proposed to manage  
23 116 acres of this marginal habitat to improve it.

24 MR. AJLOUNY: Could it grow, then, is  
25 that what you're saying, by them putting the cows

1 on it could be more -- it could be a more  
2 significant player in Santa Teresa Hill? Is that  
3 what I'm hearing?

4 MS. WILLIS: Can you clarify what you  
5 mean by player?

6 MS. BROWN: I don't understand --

7 MR. AJLOUNY: Because we just went  
8 through this scenario that Santa Teresa Hill is --  
9 the butterflies grow by using Tulare Hill as a  
10 stopping grounds, you know, it goes from Coyote  
11 Canal to Tulare Hill to Santa Teresa Hill.

12 If Tulare Hill now increases --

13 MS. BROWN: Then the butterfly will  
14 benefit.

15 MR. AJLOUNY: Okay. And then so we're  
16 in a scenario then the 116 acres gets taken care  
17 of better than it was before, increases in  
18 butterflies, Santa Teresa Hill increases?

19 MS. BROWN: Not necessarily. I think  
20 that what we need to say is that with better  
21 management on Tulare Hill will result in a benefit  
22 overall to the Bay Checkerspot species.

23 MR. AJLOUNY: Okay. And then I'm going  
24 to go back to the point I made with the  
25 applicant's witness.

1                   If there's no guarantee on the two-  
2 thirds that's not mitigated, you know, not  
3 guaranteed, if that changes, let's say five years  
4 from now all of a sudden the butterflies are  
5 healthy and flying around, and work their way to  
6 Santa Teresa Hill, and things are going really  
7 good for the butterfly, then two-thirds is cut off  
8 because someone makes an agreement that, hey, we  
9 want to do something different with that land, we  
10 don't want cows on it.

11                   MS. BROWN: Currently there's 339  
12 acres --

13                   MR. AJLOUNY: Yes.

14                   MS. BROWN: -- of serpentine on Tulare  
15 Hill.

16                   MR. AJLOUNY: Yes.

17                   MS. BROWN: Zero percent of that is  
18 protected for the Bay Checkerspot butterfly.

19                   MR. AJLOUNY: Okay.

20                   MS. BROWN: Zero percent of that habitat  
21 it protected. All 339 acres are unprotected,  
22 unprotected from direct impacts of urbanization,  
23 from indirect impacts of nitrogen deposition.

24                   The applicant for this project has  
25 proposed to place 116 acres of this 339 acres in a

1 conservation easement with a grazing management  
2 plan that will adaptively manage to improve the  
3 habitat for the butterfly.

4 So whatever percentage of 116 acres to  
5 339 acres will be protected. So that, in Fish and  
6 Wildlife Service's view, is an improvement in the  
7 overall baseline for that species.

8 And, again, also on Coyote Ridge there  
9 is a certain amount of habitat currently that is  
10 protected in conservation easements as mitigation  
11 from previous projects. And the applicant has  
12 proposed to set aside 15 acres on Coyote Ridge,  
13 again, for protection from development pressures,  
14 whatever they may be, and also to manage it to  
15 improve the quality of that habitat.

16 MR. AJLOUNY: And you don't have any  
17 reason to believe that if Metcalf didn't come in  
18 and all the years that the cows have been there  
19 and the butterflies have been there, that that's  
20 going to change? I mean there's no reason to  
21 believe that that's going to even change if  
22 Metcalf doesn't come in?

23 MS. BROWN: I don't understand your  
24 question.

25 MR. AJLOUNY: Well, if Metcalf doesn't

1           come in is there any reason to believe that  
2           anything's going to change from the last 20 years  
3           on Tulare Hill?

4                       MS. WILLIS:  Are you --

5                       PRESIDING MEMBER LAURIE:  Mr. Ajlouny, I  
6           will give you five minutes.  So choose your  
7           questions carefully.

8                       MR. AJLOUNY:  Answer the question,  
9           please.

10                      MS. WILLIS:  I'd like clarification what  
11           specifically are you referring to --

12                      HEARING OFFICER FAY:  If I may, I want  
13           to break in here.  Right now there is no  
14           requirement on the land.

15                      MR. AJLOUNY:  I understand that.

16                      HEARING OFFICER FAY:  And so it may not  
17           change, but it could change.  And I think what  
18           U.S. Fish and Wildlife is saying is that if  
19           there's a requirement in perpetuity, then at least  
20           to that extent for those 116 acres, they know they  
21           have some protection for the species.

22                      Right now the protection is  
23           serendipitous.  It's just by chance that someone  
24           chooses to graze their cows there.

25                      MR. AJLOUNY:  I guess my investigation

1 in what I found that land can't be developed  
2 anyways, and I'm trying to prove a point that the  
3 way it has been for the last 10, 20 years, I mean  
4 there's been cows on there for years --

5 PRESIDING MEMBER LAURIE: We talked  
6 about that --

7 HEARING OFFICER FAY: Put that in your  
8 brief.

9 MR. AJLOUNY: Okay.

10 PRESIDING MEMBER LAURIE: -- and that  
11 point is --

12 MR. AJLOUNY: Do you have any reason to  
13 believe that -- I'm sorry, it's just my five  
14 minutes, I'm focusing in on -- do you have any  
15 reason to believe that the butterflies are going  
16 to improve any more than they have in the last 20  
17 years with the same conditions of cows and  
18 everything like that? Yes or no?

19 MS. BROWN: I don't understand your  
20 question.

21 MR. AJLOUNY: Well, --

22 MS. BROWN: Do I have any reason to  
23 believe that --

24 MR. AJLOUNY: It's going to get any  
25 better? I mean cows have been on there for 28

1 years, let's say, and you know, you're saying the  
2 habitat of the butterflies are not the best right  
3 now there, whatever the words were.

4 MS. BROWN: Right. Yes, --

5 MR. AJLOUNY: Do you have any belief  
6 it's going to change by --

7 MS. BROWN: Well, --

8 MR. AJLOUNY: -- by --

9 MS. BROWN: -- the grazing's change --

10 HEARING OFFICER FAY: I think you need  
11 to let the witness answer.

12 MR. AJLOUNY: Well, --

13 MS. BROWN: Currently the grazing level  
14 on Tulare Hill is one cow for every three acres of  
15 property, and following the placement of the  
16 conservation easement on -- so it's grazed quite  
17 heavily for this area.

18 And following the placement of the  
19 conservation easement, the number of cows the  
20 applicant has proposed is one cow for every ten  
21 acres. So it will be a lower level of grazing, it  
22 will be a moderate level of grazing, as opposed to  
23 a high level of grazing that's occurring right  
24 now.

25 So, it's reasonable to believe that less

1 intensive grazing, although moderate, would  
2 improve the quality of the butterfly habitat on  
3 that part of Tulare Hill.

4 MR. AJLOUNY: I guess I was led to  
5 believe, you know, the more cows the better kind  
6 of thing, with increase -- but from your testimony  
7 they're going to lessen the number of cows?

8 MS. BROWN: No, it's not the more cows  
9 the better. It's moderate, properly managed  
10 grazing. And at this time the level of grazing on  
11 that property is quite high.

12 MR. AJLOUNY: Okay, and is there any  
13 background numbers or some books or some theories  
14 on how many cows per acre? Like where do you get  
15 that number? Where do you determine that kind of  
16 thing?

17 MS. BROWN: That was the estimate that  
18 Dr. Weiss provided, was the one cow per three  
19 acres is based on his experience, has been  
20 effective.

21 MR. AJLOUNY: Okay.

22 MS. BROWN: And that again -- and also  
23 the applicant has proposed not just to put out one  
24 cow for every three acres and walk away, but to  
25 monitor the property and adapt the grazing plan to

1 the necessities of the species.

2 MR. AJLOUNY: Okay, so you used the  
3 applicant's expert witness to come out with your  
4 conclusions on this?

5 MS. BROWN: Yes.

6 MR. AJLOUNY: Thank you.

7 HEARING OFFICER FAY: Anything further?

8 MR. AJLOUNY: No.

9 HEARING OFFICER FAY: Okay, thank you.

10 And is there anybody from -- yes, Mr. Boyd.

11 (Off-the-record discussions.)

12 MR. BOYD: Okay. I have a couple of  
13 questions of you, Cecilia.

14 CROSS-EXAMINATION

15 BY MR. BOYD:

16 Q First, I heard you mention that you had  
17 some sort of draft opinion?

18 MS. BROWN: Yes, I do.

19 MR. BOYD: Can you tell me why the  
20 parties weren't provided a copy of that in advance  
21 of the meeting?

22 MS. BROWN: Because it's an internal  
23 draft, it has not been reviewed by managers. And  
24 so therefore it's not available for public  
25 release. It will be a public document once it's

1 signed.

2 MR. BOYD: Could you explain to me what  
3 the public participation process is in the  
4 biological opinion?

5 MS. BROWN: The biological opinion is  
6 not a document that is available for public  
7 review. It is the Service's opinion on whether or  
8 not the issuance of a permit, in this case the air  
9 quality permit, issued by the Bay Area Air Quality  
10 Management District, will or will not jeopardize  
11 the continued existence of threatened and  
12 endangered species.

13 MR. BOYD: So would you say that it also  
14 was a permit to do a take?

15 MS. BROWN: It is not a permit to take.  
16 It is the exemption of take that occurs incidental  
17 to the project from violations of the Act.

18 MR. BOYD: So is there any mechanism  
19 once the biological opinion comes out for the  
20 public to comment or suggest changes to the  
21 opinion?

22 MS. BROWN: No, there is not.

23 MR. BOYD: So the public has no way to  
24 meaningfully participate in this opinion -- in  
25 that opinion --

1 MS. WILLIS: I'm going to object.  
2 Ms. Brown has answered questions regarding public  
3 participation.

4 HEARING OFFICER FAY: That's right.  
5 Now, what she did say is this is input into the  
6 air district's permit, which, of course, is  
7 subject to public comment.

8 MR. BOYD: No, my understanding is the  
9 public comment period was foreclosed with the  
10 issuance of the final determination of compliance.

11 HEARING OFFICER FAY: Right, but prior  
12 to the DOC --

13 MR. BOYD: Which it done.

14 HEARING OFFICER FAY: -- you have --

15 MR. BOYD: Which is done. Is my  
16 assumption correct that the EPA will not allow the  
17 air district to issue a PSD permit unless they  
18 concur with the biological opinion?

19 MS. BROWN: I believe -- I don't want to  
20 speak for EPA, they're not here. I believe --

21 MR. BOYD: I'm just talking about a  
22 process, not --

23 MS. BROWN: Right, --

24 MR. BOYD: -- whether they're going to  
25 do it.

1                   MS. BROWN: EPA will not allow the Bay  
2                   Area Air Quality Management District to issue the  
3                   PSD permit until it has received a biological  
4                   opinion, and reviewed it.

5                   And typically a federal agency then will  
6                   incorporate the terms and conditions of the  
7                   biological opinion as conditions of that permit  
8                   that they issue.

9                   MR. BOYD: So you're stating, then, that  
10                  basically you have a draft opinion that's not  
11                  public information yet, and won't become public  
12                  information until it's complete. At that point  
13                  the public has no input once it's complete,  
14                  correct?

15                  HEARING OFFICER FAY: That's been asked  
16                  and answered.

17                  MR. BOYD: Now, the question then is if  
18                  we were going to have input would we have to  
19                  provide you that input now in order to have any  
20                  effect, I guess is what I'm trying to find out,  
21                  before the --

22                  HEARING OFFICER FAY: Well, she said  
23                  it's not that kind of a process.

24                  MS. BROWN: There's no mechanism for  
25                  public opinion in the section 7 biological opinion

1           consultation process.

2                   MR. BOYD:   Okay.

3                   MS. BROWN:   For example, one federal  
4           agency that we consult with often is the U.S. Army  
5           Corps of Engineers.  And they issue what are  
6           called section 404 permits under the Clean Water  
7           Act.

8                   Those permits have a mechanism for  
9           public review for all aspects of the project.  And  
10          so that is the public review that goes into it.  
11          Because the action that occurs is -- the federal  
12          action that occurs is the issuance of that 404  
13          permit.

14                   So the federal action that is occurring  
15          now is EPA's approval for the air district to  
16          issue its permit.

17                   So any public comment would have to be  
18          through EPA or the air district, whatever their  
19          mechanisms for public comment are.

20                   MR. BOYD:   Okay.  So if my understanding  
21          is correct, then our opportunity to comment would  
22          have been to the air district, yet the air  
23          district did not have a biological opinion yet?

24                   PRESIDING MEMBER LAURIE:  I'm not going  
25          to spend time going through the federal processes.

1           What we have before us is a statement from this  
2           witness indicating, with her knowledge of the  
3           draft, proposed conditions are consistent with it.

4                        What's going to happen is if the final  
5           is not consistent either more strict mitigation  
6           measures will be imposed, or either at the request  
7           of any party or at the request of the Committee we  
8           can open it up.

9                        That's where we are with that.  And  
10          you're not going to --

11                       MR. BOYD:  Okay, I won't beat a dead  
12          horse, okay?  I'll change to another subject,  
13          another horse.

14                       I heard you mention the term adaptive  
15          management plan.  To your knowledge is there an  
16          adaptive management plan for this project?

17                       MS. BROWN:  I believe it's partially  
18          covered in the BRMIMP, I don't know what all the  
19          words are for those letters.

20                       MR. BOYD:  Resource mitigation and  
21          monitoring plan.

22                       MS. SPIEGEL:  I can answer that  
23          question.  It's actually the BRMIMP is in the  
24          preliminary draft, and we are receiving comments  
25          it on -- or they are receiving comments on it,

1 including from me and hopefully from Cecilia, and  
2 we received some from CARE.

3 MR. BOYD: Okay.

4 MS. SPIEGEL: And so those comments are  
5 being incorporated. And they don't have to have a  
6 final out until so many days before construction,  
7 and in that there is an adaptive management plan  
8 being developed right now by their consultant,  
9 Stuart.

10 MR. BOYD: Okay.

11 MS. SPIEGEL: And there will be an  
12 adaptive management plan in the final BRMIMP.

13 MS. BROWN: And then just one other  
14 thing about typically in a biological opinion the  
15 Fish and Wildlife Service requires things like  
16 management plans and conservation easements and  
17 proof of the presence of an endowment to be in  
18 place before any construction begins.

19 MR. BOYD: So my question is what's your  
20 experience with adaptive management plans? Do you  
21 have any prior experience with adaptive management  
22 plans?

23 MS. BROWN: I have some experience with  
24 not specifically adaptive management plans, but  
25 with management plans during my tenure as an

1 employee with the State of New Mexico. It was  
2 more on an informal basis, looking at project  
3 implementation and the results of the  
4 implementation and additional protective measures  
5 that were needed to -- whatever additional  
6 protective measures were needed to protect the  
7 resource, then those would be implemented over  
8 time.

9 MR. BOYD: Have you ever had any  
10 experience with an adaptive management plan that  
11 didn't work?

12 MS. BROWN: No.

13 MR. BOYD: Okay. And what would be the  
14 effect if, for example, hypothetically, they came  
15 up with an adaptive management plan say to graze a  
16 certain amount on Tulare Hill to control a  
17 nonnative species from encroaching --

18 MS. SPIEGEL: That's the point of an  
19 adaptive management plan, is you look at, you have  
20 goals and objectives and then you have milestones  
21 that you try to reach. You have monitoring in  
22 place. And you look to see if you're getting  
23 those. If you're not, the idea is you stop, you  
24 reassess, and you have alternatives in place, too.

25 Your ultimate goal is to get to this

1           one, is to improve the habitat for the Bay  
2           Checkerspot butterfly in this case. And your  
3           management regime might be one cow per ten acres.  
4           If that's not work, you know, you have these  
5           milestones in place. And you have them in place  
6           in such a way that it's not too late.

7                         You have to have them in place in time  
8           that you can identify and recognize and change  
9           your strategy. And adaptive management is really  
10          learn by doing. It's not a real voodoo thing. I  
11          mean, it's -- actually I have a definition.

12                        It's a method for examining alternative  
13          strategies for meeting measurable biological goals  
14          and objectives. And then, if necessary, adjusting  
15          future conservation management actions according  
16          to what is learned.

17                        That is you still meet your goal.  
18          That's what's adaptive about it is you don't get  
19          yourself stuck in anything.

20                        MR. BOYD: Oh, I have an understanding,  
21          and so my question is I assume both of you read  
22          Dr. Smallwood's comments on adaptive management  
23          plans, is that correct?

24                        MS. BROWN: His comments --

25                        MS. SPIEGEL: I read them but I don't

1 recall them at this time.

2 MR. BOYD: Okay. My question is  
3 basically this, if there is going to be an  
4 adaptive management plan, based on what you just  
5 testified to, that means that there should be more  
6 than one mitigation option available.

7 And to my knowledge no more than one  
8 mitigation option has been proposed, which is the  
9 15 acres.

10 So what other methods of mitigation are  
11 being proposed short of what is currently before  
12 us?

13 MS. SPIEGEL: I'm not following what  
14 you're saying that we have done. We have proposed  
15 to manage an area --

16 MR. BOYD: Using adaptive management.

17 MS. SPIEGEL: -- to promote and help  
18 recover the Bay Checkerspot butterfly. What we're  
19 looking at right now is that they have one cow per  
20 three acres. We think they're hammering it. We  
21 know that one cow per ten is working across the  
22 ridge in Coyote Kirby Canyon.

23 So it will probably be a place that  
24 we'll set as a, you know, beginning point. I  
25 don't know. We'll have to look at when we develop

1 it.

2 And we'll have monitoring in place. And  
3 if that's not working appropriately then we'll  
4 change the management, the grazing strategy  
5 accordingly.

6 You know, some years we're going to have  
7 drought. Some years we're going to have excessive  
8 rain. All those things are going to affect it  
9 year to year, and it's just going to have to be  
10 tweaked all the time.

11 MR. BOYD: Well, let me get to the  
12 concern. The concern is that, and I've said this  
13 earlier, the concern we have is the 15 acres that  
14 you're proposing to mitigate is what we consider a  
15 take, is located in the impact zone.

16 And our concern is the mitigation plan,  
17 if it fails, if the nitrogen deposition isn't  
18 mitigated adequately from the plant and we lose  
19 the habitat, and we lose that habitat, what other  
20 site is being proposed to mitigate that loss of  
21 habitat specifically?

22 MS. SPIEGEL: Well, we have more than 15  
23 acres --

24 MR. BOYD: Other than the 15 acres that  
25 are in the impact zone?

1 MS. BROWN: Well, there are 131 acres  
2 proposed for protection --

3 MR. BOYD: In the impact zone.

4 MS. BROWN: Yes.

5 MS. SPIEGEL: Tulare Hill is an impact  
6 zone.

7 MR. BOYD: That's right, so there's  
8 other places in the State of California clearly  
9 that support this habitat of the Bay Checkerspot  
10 butterfly --

11 PRESIDING MEMBER LAURIE: What we're  
12 going to do --

13 MR. BOYD: Are any other habitats --

14 PRESIDING MEMBER LAURIE: What we are  
15 going to do is you call your witness and you  
16 present your witness' views on the subject.

17 MR. BOYD: I thought --

18 PRESIDING MEMBER LAURIE: We're done  
19 with this.

20 MR. BOYD: Okay.

21 PRESIDING MEMBER LAURIE: Because we're  
22 going around in circles.

23 MR. BOYD: Well, that's fine.

24 HEARING OFFICER FAY: And I do think  
25 you've moved into argument and that should be

1 included in your brief. If that's --

2 MR. BOYD: Well, I'm not trying to  
3 argue, I'm just trying to get the information,  
4 honest.

5 HEARING OFFICER FAY: Mr. Scholz.

6 MR. BOYD: I wasn't done, though. I'm  
7 done with that subject.

8 PRESIDING MEMBER LAURIE: Okay, you have  
9 five minutes, choose your questions carefully.

10 MR. BOYD: Well, you know, --

11 PRESIDING MEMBER LAURIE: Well, what I  
12 know is that --

13 MR. BOYD: -- I'm not going to -- I'm  
14 not going to be buffaloed. I have the right --

15 PRESIDING MEMBER LAURIE: No, but I am,  
16 I am giving you --

17 MR. BOYD: -- as a member of the  
18 public --

19 PRESIDING MEMBER LAURIE: -- I am giving  
20 you five minutes. And the problem is that under  
21 no circumstances in any hearing in any room in the  
22 world can one take simply as long as they want.  
23 The point being is that you, and I take  
24 responsibility for much of this in that obviously  
25 the workshops failed. Because there's been so

1 much time spent the last two months educating  
2 everybody when all this should have been done way  
3 before you got there.

4 And when you get here, your questions  
5 are supposed to be narrowed and focused on the  
6 most important points of contention. And as far  
7 as I'm concerned, you just spent 15 minutes on  
8 issues that either have already been addressed, or  
9 should not be a priority to you.

10 So, I'm giving you five minutes.

11 MR. BOYD: Okay, well, --

12 PRESIDING MEMBER LAURIE: You can spend  
13 that five minutes arguing with me if you want.

14 MR. BOYD: No, I --

15 PRESIDING MEMBER LAURIE: And I would  
16 encourage you not to do that.

17 MR. BOYD: -- I don't wish to argue with  
18 you, I just disagree. And frankly, I object, I  
19 think you're precluding meaningful  
20 participation --

21 PRESIDING MEMBER LAURIE: Well, include  
22 that with the rest of your objections.

23 MR. BOYD: My next question is to staff  
24 basically, what -- do you believe -- it's the same  
25 question I asked the witness for the applicant,

1           which is do you believe that there is sufficient  
2           information in the record at the close of this  
3           hearing today to close the record in the absence  
4           of a biological opinion being released?

5                       MS. SPIEGEL:  Yes, I don't think the  
6           biological opinion will have any new information.  
7           They may add more conditions, but they won't add  
8           any new information.

9                       MR. BOYD:  So you believe that it's  
10          complete and the record will be complete on  
11          biological resources at the close of the hearing  
12          today?

13                      MS. WILLIS:  Objection, she's answered  
14          that question.

15                      MR. BOYD:  Okay.

16                      HEARING OFFICER FAY:  Sustained.

17                      MR. BOYD:  Okay, that's fine.  That's my  
18          last question, thank you.

19                      HEARING OFFICER FAY:  Thank you.  Mr.  
20          Scholz.

21    CROSS-EXAMINATION

22          BY MR. SCHOLZ:

23                      Q     I understand you're consulting with the  
24          applicant, primarily and the CEC.  The public  
25          hasn't really participated in your document that

1           you're preparing.

2                       Some of the other data that we feel may  
3           be relevant comes from the City of Morgan Hill's  
4           air quality testimony, public health. I'm not  
5           even sure if CVRP's testimony.

6                       Do you review those documents that  
7           they're providing and somehow incorporate that  
8           into your document that you're preparing for the  
9           biological opinion?

10                      MS. BROWN: I'm sorry, the documents  
11           that who are providing?

12                      MR. SCHOLZ: Morgan Hill has provided  
13           testimony that will be considered after this  
14           hearing. And CVRP has done the same, contesting  
15           some of the assumptions or data that's being  
16           provided by the applicant.

17                      MS. WILLIS: Just to clarify, that's in  
18           air quality?

19                      MR. SCHOLZ: Yes. So, does the public  
20           -- do you have an opportunity to review those  
21           documents before you finish your opinion?

22                      MS. BROWN: If those documents pertain  
23           directly to biological resources, then I would  
24           review those if they are submitted as information  
25           pertinent to the biological impacts, then, yes, I

1 would review them.

2 MR. SCHOLZ: I think it goes not  
3 necessarily specific to the -- I don't think they  
4 make the relationship to biological, but it goes  
5 to the assumptions used for your analysis, the  
6 biological folks' analysis for the CEC --

7 MS. WILLIS: I'm going to object --

8 MR. SCHOLZ: So I'm just trying to  
9 understand --

10 MS. WILLIS: -- I don't believe she's  
11 seen those documents, and I actually haven't seen  
12 the City of Morgan Hill's air quality testimony or  
13 CVRP's testimony, either, to --

14 MR. SCHOLZ: Would you consider  
15 reviewing those before you --

16 MS. BROWN: I received a copy of the  
17 City of Morgan Hill's document. I looked it over  
18 and, yes, I will review and see if it's relevant.

19 MR. SCHOLZ: That's all, thank you.

20 MS. WILLIS: No redirect.

21 HEARING OFFICER FAY: Okay, thank you.

22 MR. HARRIS: Do you have exhibits --

23 MS. WILLIS: I already entered them.

24 HEARING OFFICER FAY: Staff already  
25 moved their exhibits, and that concludes taking

1 the testimony on biological resources.

2 I'm informed by Mr. Valkosky that no  
3 other party filed testimony on biological  
4 resources. So, that concludes biological  
5 resources.

6 Mr. Harris, do you have anything to say  
7 about the stuff back there on the table? Is that  
8 up for grabs?

9 MR. HARRIS: I won't make any judgments  
10 on it, but it's available --

11 (Laughter.)

12 HEARING OFFICER FAY: First of all,  
13 let's go off the record for a minute.

14 (Off the record.)

15 PRESIDING MEMBER LAURIE: What I'd like  
16 to do is engage in a discussion with the parties  
17 to determine what we need to have discussions  
18 about this evening.

19 We have written testimony, we have  
20 testimony that has conflicting views. That is as  
21 expected, and we respect that.

22 We have testimony from the applicant  
23 asking for some proposed changes to the  
24 conditions. We have read that.

25 We see staff's recommendation that the

1 project cannot be fully mitigated, which means  
2 that this project cannot be approved without a  
3 CEQA override. That's known and understood.

4 And I believe it is not the Committee's  
5 desire to engage in a debate tonight as to what  
6 the final architectural plan of the building  
7 should be.

8 So what I would ask the parties is,  
9 given what everybody knows about the project,  
10 architecturally and from a landscape perspective,  
11 from all the writings, to what extent do we need  
12 to have a witness take an oath and to have that  
13 witness cross-examined. And if you want to cross-  
14 examine a witness, I want to know what the nature  
15 of that cross-examination is.

16 (Pause.)

17 PRESIDING MEMBER LAURIE: And so to the  
18 extent that there is no cross-examination, or to  
19 the extent that there's minimal cross-examination,  
20 as we have done before, we're simply going to ask  
21 for stipulations.

22 Then what I'm interested in is an  
23 educational process for the Committee, since we  
24 didn't have an opportunity to sit in in workshops.  
25 We want to know, we certainly recognize that any

1 project, this project or any other project, what  
2 it looks like to the world is an important deal.

3 So we want to have a generic discussion,  
4 doesn't even have to be under oath as far as I'm  
5 concerned. Matter of fact, like I say, it can't  
6 be because we don't have testimony by the  
7 architect, right? Okay. Unless somebody needs to  
8 have it under oath, I don't need to have it under  
9 oath.

10 I want to have a generic discussion  
11 about what's possible under these circumstances.  
12 Okay, so, Commissioner Keese, is that consistent  
13 with your desires?

14 CHAIRMAN KEESE: Yes.

15 PRESIDING MEMBER LAURIE: That's the  
16 Committee's interests, so I'd like to have a  
17 discussion from the parties as to whether that  
18 meets your needs. If it doesn't I'd like to have  
19 an understanding why.

20 Yes, sir.

21 MR. AJLOUNY: My intentions are just to  
22 bring out some of the misleading testimony from  
23 Mr. Priestly, and you know, I have specific line  
24 items. And objection to VIS10 being removed by I  
25 think staff suggested that.

1                   PRESIDING MEMBER LAURIE:  If you  
2           disagree with something you can just let us know  
3           that you disagree.

4                   MR. AJLOUNY:  Okay.  And then the other  
5           thing, the major comment overall everything is I  
6           disagree with just your whole perception you're  
7           giving us that you'll do anything to favor the  
8           applicant in this whole process.

9                   PRESIDING MEMBER LAURIE:  And if, again,  
10          you feel that is the way the Committee is acting,  
11          and you wish to offer objections and note a bias,  
12          you're most certainly free to do that.

13                  MR. AJLOUNY:  Well, that's exactly how I  
14          feel.

15                  PRESIDING MEMBER LAURIE:  Fine, put it  
16          in writing.

17                  Yes, sir.

18                  MR. GARBETT:  My questions would be to  
19          the FSA in particular, or the applicant, and some  
20          of the testimony given previously tonight on a  
21          cross-examination.  It does not necessarily have  
22          to be on cross-examination, but in which case I  
23          would be asking questions and I would hope not to  
24          introduce testimony of my own, but through the  
25          questions effectively I could probably state --

1                   PRESIDING MEMBER LAURIE: Well, there  
2                   have been workshops on visual. And so there  
3                   should be no new questions. The Committee might  
4                   have questions because, of course, we didn't have  
5                   the opportunity of the workshop.

6                   To the extent that you have legitimate  
7                   questions on the points that are discussed that  
8                   are new to you, those questions would be accepted.

9                   MR. GARBETT: What I would call  
10                  deficiencies in the FSA.

11                  PRESIDING MEMBER LAURIE: If you have  
12                  deficiencies, if you think there are deficiencies  
13                  in the FSA, first of all you are not -- do you  
14                  feel there's a need to cross-examine staff's  
15                  witnesses?

16                  MR. GARBETT: That's the mechanism you  
17                  have set up in the evidentiary hearings.

18                  PRESIDING MEMBER LAURIE: Okay, what is  
19                  the nature of the specific question --

20                  CHAIRMAN KEESE: Let me ask a question,  
21                  they're going to tell us what it's going to look  
22                  like. And if you think, I mean that it's not,  
23                  that's what it's going to look like, I think. If  
24                  you wish it looks like something else, then you  
25                  say I wish it looked like something else.

1                   But, I just wonder, once they tell us  
2                   what it looks like, are you going to say well,  
3                   that's not what it's going to look like?

4                   MR. GARBETT: I am not here to argue  
5                   about the shade of the paint or any of the general  
6                   features, but there are some things that are very  
7                   important, what I call --

8                   PRESIDING MEMBER LAURIE: What?

9                   MR. GARBETT: -- in the visual aspect.

10                  CHAIRMAN KEESE: Well, see, but what  
11                  we're asking, at least what I want to get out of  
12                  this, what is it, if you want to say something, if  
13                  you want to say I don't think it should be 120  
14                  feet high, I think it should be 100, that's all  
15                  right.

16                  But if he says it's going to be 120, are  
17                  you going to cross-examine him on that? See, I'm  
18                  trying to figure out what --

19                  MR. GARBETT: Yeah, my cross-examination  
20                  would be not to, if he says 120 feet high, fine to  
21                  me. However, I might ask questions as to could it  
22                  be shorter if. And the benefit as far as override  
23                  might not be necessary in some cases.

24                  HEARING OFFICER FAY: Mr. Harris, how  
25                  long will it take you to summarize your testimony

1 on visual?

2 MR. HARRIS: I think you need to  
3 understand a couple things from our perspective.  
4 In this area we have a staff FSA that claims  
5 significant impacts in basically three areas, one  
6 from KOP1, one through a combination of views, and  
7 one through cumulative impacts.

8 Related to that is the VIS10 question,  
9 which we've heard alluded to earlier.

10 Those are our serious and substantial  
11 issues. And we're in serious disagreement with  
12 staff on the conclusions. And respecting  
13 everyone's time, I still need the time to make the  
14 case, and make the record to support us on those.

15 I'm less concerned about the  
16 architectural issues; that's actually not the  
17 primary focus of our concern and our direct  
18 testimony.

19 We have provided the architect to deal  
20 with that issue, but again, where I'm coming from  
21 are we have three areas I've identified as  
22 significant impacts under CEQA. We need to  
23 address those issues, and we need to cross-examine  
24 staff on their assumptions about those issues.

25 This is one of only two areas in the FSA

1           where we do have a disagreement with staff. And  
2           so, based upon that, we're going to need some time  
3           to both put on our case and --

4                       PRESIDING MEMBER LAURIE: Okay, well, --

5                       MR. HARRIS: -- cross-examine.

6                       PRESIDING MEMBER LAURIE: -- go ahead  
7           and do it. All I can tell you is that in my  
8           experience visual is by far the most subjective  
9           element of any environmental analysis.

10                      MR. HARRIS: Agreed.

11                      PRESIDING MEMBER LAURIE: And it is more  
12           common than not for an environmental analysis to  
13           make a finding of unmitigatable impact. It is a  
14           pretty common view. Coyote Valley had the same.  
15           So, you're free to make the argument and seek to  
16           establish a record that, in fact, the impact is  
17           not significant, if that's where you want to go.

18                      MR. HARRIS: I think that's where we  
19           need to go, because of the concerns about whether  
20           there are significant impacts. We're of the  
21           opinion that there aren't.

22                      And then the plume condition, as  
23           currently posited by staff, although I know  
24           there's some flexibility in that position, --

25                      PRESIDING MEMBER LAURIE: Okay, go ahead

1 and present your witness.

2 HEARING OFFICER FAY: Can I ask, though,  
3 could you limit your presentation to the matters  
4 that are literally at issue regarding  
5 significance.

6 MR. HARRIS: I'm going to have to ask my  
7 witnesses to adjust their testimony on the fly,  
8 somewhat. We were aware that you all wished to  
9 finish tonight and we've already substantially cut  
10 back testimony in this area. And we're prepared  
11 to cut it back even further. And it may be a  
12 little bumpy because of that, but we will make it  
13 as quick as possible.

14 HEARING OFFICER FAY: Appreciate that.

15 MR. AJLOUNY: I was not aware that you  
16 wanted to finish everything tonight. I wish I  
17 did, so I could have made plans to --

18 HEARING OFFICER FAY: All you have to do  
19 is look at the schedule.

20 MR. AJLOUNY: Well, he just stated that  
21 he was aware that you wanted to finish tonight.

22 HEARING OFFICER FAY: We announced it at  
23 the beginning of this hearing.

24 MR. AJLOUNY: The way you made it sound  
25 like you were aware, --

1 MR. HARRIS: I'm aware from the --

2 MR. AJLOUNY: -- I thought previous to  
3 today.

4 MR. HARRIS: I'm sorry, from the filing,  
5 from the notice of the hearings, it says that both  
6 subjects are covered tonight, --

7 MR. AJLOUNY: I understood that.

8 MR. HARRIS: -- might carry over. So,  
9 we're prepared to finish both --

10 PRESIDING MEMBER LAURIE: To the extent  
11 that it's necessary. I don't believe that it's  
12 necessary.

13 HEARING OFFICER FAY: So why don't you  
14 present your witnesses and we'll get started.

15 MR. HARRIS: Okay. I'll ask my  
16 witnesses to bear with us; we'll go through this  
17 rather quickly then.

18 We have a panel of five witnesses who  
19 are available for various topics, and I will  
20 abbreviate all of their testimonies. I'd ask that  
21 the witnesses be sworn.

22 HEARING OFFICER FAY: Okay, please swear  
23 the witnesses.

24 //

25 //

1           Whereupon,  
2                           THOMAS PRIESTLEY, JAMES DUNSTAN,  
3                           KENNETH ABREU, GARY RUBENSTEIN  
4                           and PAUL STOCKS  
5           were called as witnesses herein, and after first  
6           having been duly sworn, were examined and  
7           testified as follows:

8                           MR. HARRIS: Thank you.

9                           Mr. Priestley will present the majority  
10           of our direct testimony; it's actually the  
11           majority of our entire testimony here tonight.  
12           And I'll ask him to answer the general litany on  
13           behalf of the panel.

14                           DIRECT EXAMINATION

15           BY MR. HARRIS:

16                           Q     So, Tom, what subject matter are you  
17           here to testify about today?

18                           DR. PRIESTLEY: Visual resources.

19                           MR. HARRIS: And which documents are you  
20           sponsoring as part of your testimony -- excuse me,  
21           were the documents that you're sponsoring  
22           previously submitted in prior filings for this  
23           proceeding?

24                           DR. PRIESTLEY: Yes.

25                           MR. HARRIS: I'd like to go through

1           those previous exhibits and let you know which  
2           ones they are, and I'm stalling for just a second.  
3           Give the list to the Committee. The previous  
4           documents are section 811 of the AFC, which is  
5           exhibit 1; exhibit 3; exhibit 5; exhibit 13 -- Mr.  
6           Fay, do you have the list now?

7                         HEARING OFFICER FAY: I'm sorry?

8                         MR. HARRIS: Do you have the list now?

9                         HEARING OFFICER FAY: Yes, I do.

10                        MR. HARRIS: Okay. Not the first blank  
11           one; it's responses to CEC data requests numbers  
12           89, 90, 95 to 99, and 102 to 105 set 1C is a new  
13           exhibit. I'd ask that that be given a number.

14                        HEARING OFFICER FAY: That's exhibit  
15           103.

16                        MR. HARRIS: And responses to CEC data  
17           requests numbers 83, 91 to 93, set 1D, and that's  
18           a new exhibit. I ask that that be given a number.

19                        HEARING OFFICER FAY: Exhibit 104.

20                        MR. HARRIS: Continuing on, exhibits 46,  
21           exhibit 27, exhibit 14, exhibit 16A, exhibit 16B,  
22           a new exhibit PSA comment set 4, I'd ask that that  
23           be given a number.

24                        HEARING OFFICER FAY: Exhibit 105.

25                        MR. HARRIS: Exhibits 23; exhibit 66;

1 exhibit 30; and I understand that there are three  
2 corrections, as well, by Mr. Priestley. The gas  
3 metering station which is exhibit 12. Applicant's  
4 3A testimony, which is the whole of this testimony  
5 for these topics. And applicant's additional  
6 visual testimony which was previously marked as  
7 exhibit 97.

8 So, with those understandings, are there  
9 any changes or corrections to your testimony?

10 DR. PRIESTLEY: No.

11 MR. HARRIS: And were the documents  
12 prepared either by you or at your direction?

13 DR. PRIESTLEY: They were.

14 MR. HARRIS: Are the facts stated  
15 therein true to the best of your knowledge?

16 DR. PRIESTLEY: Yes.

17 MR. HARRIS: And are the opinions stated  
18 therein your own?

19 DR. PRIESTLEY: Yes.

20 MR. HARRIS: Do you adopt this as your  
21 testimony for the proceeding?

22 DR. PRIESTLEY: I do.

23 MR. HARRIS: Can you briefly summarize  
24 your qualifications?

25 DR. PRIESTLEY: My name is Thomas

1 Priestley, T-h-o-m-a-s, Priestley is  
2 P-r-i-e-s-t-l-e-y. In terms of education I have  
3 an undergraduate degree in city regional planning  
4 from the University of Illinois. I have a masters  
5 in city planning from the University of California  
6 at Berkeley. I have a masters in landscape  
7 architecture with an emphasis in environmental  
8 planning from UC Berkeley. And I have a PhD in  
9 environmental planning which was awarded by the  
10 Department of Landscape Architecture, also at UC  
11 Berkeley.

12 I have about 20 years of professional  
13 experience which includes University teaching,  
14 giving courses in environmental planning, urban  
15 design and design research methods.

16 I've done research on public perceptions  
17 of transmission lines; land use and property value  
18 effects of transmission lines. Research on the  
19 various design and siting and architectural  
20 methods that have been used to improve the  
21 appearance of transmission lines and substations,  
22 and integrate them into their settings.

23 MR. HARRIS: Mr. Priestley, I think  
24 we'll abbreviate by saying your experience is in  
25 the record. Let me get one last thing, though,

1           which projects have you worked on for the Energy  
2           Commission?

3                     DR. PRIESTLEY: I've worked on a number  
4           of CEC projects, more specifically Sutter, Delta,  
5           Elk Hills, Metcalf and Rio Linda.

6                     MR. HARRIS: Will the staff stipulate  
7           that Mr. Priestley is an expert on visual  
8           resources?

9                     MS. WILLIS: Yes, we will.

10                    MR. HARRIS: All right, thank you. Tom,  
11           instead of going through the project setting,  
12           there's been quite a bit of discussion about that  
13           during the biology session, we'll pass over that.

14                    I want to talk about the idea of KOPs.  
15           Can you give us a summary of how those KOPs are  
16           selected?

17                    DR. PRIESTLEY: Okay, I think as I'm  
18           introducing the subject perhaps Steve will give  
19           everyone a copy of figure 8.11-1BR, which was a  
20           part of AFC supplement C, which is essentially a  
21           map of the project site, the project area. It  
22           includes the viewshed that is the area from which  
23           the project can be seen. And it also indicates  
24           the locations of the key observation points.

25                    MR. HARRIS: So it's my understanding

1           that there were initially 11 key observation  
2           points that were selected?

3                     DR. PRIESTLEY:  Yes, there were.  These  
4           were selected in collaboration with the staff of  
5           the CEC.

6                     MR. HARRIS:  And what objective do you  
7           have in logic for selecting a KOP?

8                     DR. PRIESTLEY:  Well, KOPs are a very  
9           common feature of procedures for evaluating the  
10          visual impacts of projects like this one.  And the  
11          idea is that they are representative viewpoints of  
12          the project site as it might be seen from various  
13          locations around the viewshed.

14                    And the idea is to pick a collection of  
15          sites to serve as KOPs that are going to be kind  
16          of representative of the different kinds of  
17          viewing situations that exist.  And presumably  
18          they incorporate those locations where the views  
19          are deemed to be like most significant; where  
20          there is most likely a -- where there is the  
21          highest probability that there would be an effect  
22          by the project.

23                    MR. HARRIS:  Now, my understanding that  
24          there were again, 11 KOPs initially selected for  
25          the project, is that correct?

1 DR. PRIESTLEY: That is correct.

2 MR. HARRIS: And are you generally in  
3 agreement with staff's assessment on those KOPs in  
4 terms of impacts?

5 DR. PRIESTLEY: Yes. Of the 11 KOPs,  
6 staff has found a significant impact with only  
7 one. So it's clear that on let's say nine or  
8 eight of the KOPs staff and I have reached exactly  
9 the same conclusions that the project's impact  
10 would be less than significant.

11 MR. HARRIS: And I understand that there  
12 were two KOPs that were initially selected by  
13 staff, but staff didn't any further analysis of  
14 those, is that correct?

15 DR. PRIESTLEY: That is correct. These  
16 KOPs were selected in collaboration with staff.  
17 But as the project proceeded, it became clear that  
18 since these viewpoints were ones where viewers did  
19 not exist at present, they could not be considered  
20 to be part of the existing environment under CEQA,  
21 and therefore would not be subject to evaluation  
22 of impact under CEQA.

23 MR. HARRIS: And was that --

24 DR. PRIESTLEY: So, for that reason the  
25 staff, at least in its analysis, dropped these

1 locations.

2 MR. HARRIS: So staff dropped two and  
3 ended up with nine?

4 DR. PRIESTLEY: Yes.

5 MR. HARRIS: I understand you kept all  
6 11, though, is that correct?

7 DR. PRIESTLEY: Well, I had done my  
8 analysis, I think, before this decision had been  
9 reached, so, yeah, I evaluated all 11.

10 MR. HARRIS: So for the nine the staff  
11 kept, they basically found no impacts for eight of  
12 those nine, is that correct?

13 DR. PRIESTLEY: That is correct.

14 MR. HARRIS: And you found no  
15 significant impacts for 11 of the 11 you analyzed,  
16 is that correct?

17 DR. PRIESTLEY: That is true.

18 MR. HARRIS: Can you quickly point out  
19 the KOPs and tell us which ones were eliminated  
20 and which ones you're in agreement with staff,  
21 again, very briefly now.

22 DR. PRIESTLEY: Okay, I'll try to be as  
23 condensed as possible. If you kind of follow  
24 along on your map there are two kinds of numbers.  
25 The ones with the black backgrounds are the key

1 observation points. The ones with the white  
2 backgrounds represent views that we included in  
3 our AFC just to provide a sense of the general  
4 character of the surrounding landscape.

5 MR. HARRIS: So we should focus on the  
6 black numbers with the arrows?

7 DR. PRIESTLEY: Yes.

8 MR. HARRIS: Or the white lettering in  
9 the black circles?

10 DR. PRIESTLEY: Yeah. And let's start  
11 with KOP2, which you'll find just about right in  
12 the middle of your map. That is a view from  
13 Monterey Road looking north towards the project  
14 site. It was taken just a little bit south of  
15 that stoplight at Blanchard Road.

16 And it was intended to represent views  
17 toward the project site from northbound Monterey  
18 Road, northbound railroad trains, from the  
19 community of Coyote and from a couple residences  
20 there on the east side of Monterey Road and the  
21 north end of Coyote.

22 MR. HARRIS: And what were the findings  
23 related to KOP2?

24 DR. PRIESTLEY: The findings was that  
25 the impact on this view was less than significant.

1                   MR. HARRIS:  And that's your finding and  
2                   the staff's finding?

3                   DR. PRIESTLEY:  Yes.

4                   MR. HARRIS:  So you were in agreement on  
5                   that KOP?

6                   DR. PRIESTLEY:  Yes, staff and I agreed  
7                   that the project would not have a significant  
8                   impact on this view.

9                   MR. HARRIS:  Okay, KOP3.

10                  DR. PRIESTLEY:  Yeah, KOP3 would be  
11                  located at the south end of Monterey, of the  
12                  community of Coyote, if you can picture that long  
13                  yellow old feed and grain structure.  At that  
14                  location under current plans there is a proposal  
15                  to build an overpass as a part of the development  
16                  of the Coyote Valley, a new interchange would be  
17                  developed at highway 101, a boulevard would extend  
18                  westward.  It would cross Monterey Road, and the  
19                  railroad tracks, via an overpass.  And then slope  
20                  down into the new industrial campus.

21                  So this would be the view from that  
22                  future overpass.

23                  MR. HARRIS:  And is this one of the ones  
24                  staff eliminated?

25                  DR. PRIESTLEY:  Yes, it is.

1                   MR. HARRIS: You did your analysis on  
2 this. What were your findings?

3                   DR. PRIESTLEY: Our conclusion was that  
4 the impact would be less than significant. And,  
5 in fact, in the PSA, the staff also concluded that  
6 the impact would be less than significant.

7                   MR. HARRIS: Okay, quickly now to KOP4.

8                   DR. PRIESTLEY: Okay, KOP4 is over on  
9 Santa Teresa Boulevard. On your map you'll see  
10 it, it's just a little bit north of Bailey Avenue.  
11 It's a view kind of looking more or less to the  
12 north across that open property that will be part  
13 of the future industrial campus.

14                   And it's intended to represent views  
15 toward the site for northbound travelers on Santa  
16 Teresa Boulevard.

17                   MR. HARRIS: What were the staff's  
18 findings?

19                   DR. PRIESTLEY: The staff found that the  
20 impact on this view from this location would be  
21 less than significant.

22                   MR. HARRIS: And did you agree with that  
23 finding?

24                   DR. PRIESTLEY: Yes, I did.

25                   MR. HARRIS: KOP5, please.

1 DR. PRIESTLEY: Okay, KOP5, again you'll  
2 kind of find it in the middle of your map, east of  
3 Monterey Road where it says Coyote Ranch. This  
4 KOP is located on parklands that belong to Santa  
5 Clara County.

6 Coyote Ranch is a historic ranch  
7 structure that's leased to a concessionaire who  
8 uses it as a facility for company picnics and the  
9 like.

10 So this is a view from the grounds of  
11 that company picnic facility looking west towards  
12 the project site.

13 MR. HARRIS: What were the findings  
14 related to this?

15 DR. PRIESTLEY: My finding and that of  
16 CEC Staff was that the impacts on this view would  
17 be less than significant.

18 MR. HARRIS: Okay, KOP6?

19 DR. PRIESTLEY: KOP6 is a view from  
20 Parkway Lakes which you'll see kind of about a  
21 third of the way down on your map over kind of  
22 towards the left.

23 The area just north of Metcalf Road,  
24 that's a recreational facility featuring fishing  
25 lakes. And this is the view from that

1 recreational facility south towards the project  
2 site.

3 MR. HARRIS: Okay, and again the  
4 finding?

5 DR. PRIESTLEY: My finding and the  
6 finding of the Energy Commission was that the  
7 project would not have a significant impact on the  
8 view from this location.

9 MR. HARRIS: Okay. Just to speed things  
10 up, Tom, KOP7, 8, 9 and 10 -- should be and 11,  
11 were also found to be insignificant by both you  
12 and the staff, is that correct?

13 DR. PRIESTLEY: That is correct.

14 MR. HARRIS: KOP10, real briefly, is the  
15 Fisher Creek corridor?

16 DR. PRIESTLEY: Yeah, that's a view from  
17 the potential location of a trail that could  
18 conceivably be developed at some future point in  
19 time along Fisher Creek. We picked a location on  
20 the most logical or most likely location of that  
21 trail, and it's a view towards the site from  
22 there.

23 And our conclusion was, with the  
24 landscape mitigation that we are proposing, that  
25 the impact would be less than significant.

1                   MR. HARRIS: Did the staff analyze this  
2 Fisher Creek corridor KOP, or did they drop it?

3                   DR. PRIESTLEY: This was dropped.

4                   MR. HARRIS: So it was eliminated  
5 from --

6                   DR. PRIESTLEY: On the grounds that at  
7 the moment there are no viewers there.

8                   MR. HARRIS: Okay, and you agree with  
9 that decision?

10                  DR. PRIESTLEY: Um-hum.

11                  MR. HARRIS: Having gone through all  
12 those, again the summary basically is that staff  
13 ended up with nine KOPs, they found significance  
14 for 8, is that correct?

15                  DR. PRIESTLEY: That's correct.

16                  MR. HARRIS: And you looked at all 11  
17 and found no significance for any of those 11?

18                  DR. PRIESTLEY: That's correct.

19                  MR. HARRIS: So we're really dealing  
20 with one KOP out of 11 here upon which you and  
21 staff disagree?

22                  DR. PRIESTLEY: That's true.

23                  MR. HARRIS: And which KOP is that?

24                  DR. PRIESTLEY: That is KOP1, which is  
25 the view from Blanchard Road, which you'll see is

1           number 1 on your map just south of the project  
2           site.

3                         And I think Steve will pass out some  
4           maps right now, and some photos that will --

5                         MR. HARRIS: This is an important KOP,  
6           Tom, because it has all of the -- basically the  
7           disagreement between staff and you come down to  
8           this particular KOP. And so what I want to ask  
9           you to do through the pictures is briefly walk us  
10          down Blanchard Road, explain to us the views that  
11          staff found to be significant, and explain to us  
12          your reasoning for reaching a contrary result.

13                        DR. PRIESTLEY: Yeah, my feeling is that  
14          we need to take a very very careful look at this  
15          area to see what's going on to understand why the  
16          impact on this location would be less than  
17          significant.

18                        And first if you take a look at this air  
19          photo that we've handed out; this was filed in one  
20          of our data responses some time ago. You'll see  
21          that it includes the outlines of the major plant  
22          facilities. And then over on the right side of  
23          the air photo you can see Blanchard Road.

24                        MR. HARRIS: Now, this is figure VIS1.2,  
25          the larger document you handed out to all of us,

1 is that correct?

2 HEARING OFFICER FAY: And this is from  
3 the AFC?

4 MR. HARRIS: And this is from, yes, I  
5 believe --

6 DR. PRIESTLEY: No, it's not from the  
7 AFC. It was from a response to a data request.

8 MR. HARRIS: I'm sorry, it's the  
9 response to a data request.

10 HEARING OFFICER FAY: Okay. Is there an  
11 exhibit number on that, do you know?

12 MR. HARRIS: We'll find it.

13 HEARING OFFICER FAY: Okay, appreciate  
14 that.

15 DR. PRIESTLEY: So over on Blanchard  
16 Road you see some numbers preceded by an R. Those  
17 are numbers that we assigned to the residences  
18 along the road. The numbers in circles relate to  
19 photographs, they're locations of photographs that  
20 we submitted as a part of that submission.

21 Some of those photographs we'll be  
22 talking about today. In fact, the first one is  
23 photo 20, which is a view looking south down  
24 Monterey Road, just so you can get a visual image  
25 of where Blanchard Road is --

1                   MR. HARRIS: Tom, you're now on your  
2 color photos in the 11 by 8 --

3                   DR. PRIESTLEY: Yes.

4                   MR. HARRIS: Okay, thank you.

5                   DR. PRIESTLEY: Yeah, I'm sorry.

6                   MR. HARRIS: Okay, photo 20 is --

7                   DR. PRIESTLEY: So, anyway, that first  
8 photo is if you're looking south, and what you're  
9 seeing by the side of the road is a disturbed area  
10 that at one time in the past when Monterey Road  
11 was a major highway, this was a weigh station. In  
12 fact, you can see that really big light fixture  
13 down there, which is a leftover from that  
14 facility.

15                   So, in fact, if you were going to take a  
16 drive down Blanchard Road, you would make a left  
17 just beyond that big light fixture and just before  
18 you get to the tattoo parlor.

19                   And then as you drive -- oh, I'm sorry,  
20 a right. You take a right down the road and first  
21 you would cross over a private railroad crossing.  
22 And then Blanchard Road, itself, is a private way.  
23 It's a narrow, mostly unpaved, one-way lane.

24                   And then along Blanchard Road you come  
25 to a complex of structures. And photo 3 is a view

1 of the first one you come to, which is R5 on our  
2 air photo.

3 So this --

4 MR. HARRIS: Tom, just for  
5 clarification, the people are looking at their air  
6 photo. The 3 with the arrow on it is the photo  
7 we're looking at right now, is that correct?

8 DR. PRIESTLEY: That is correct.

9 MR. HARRIS: So the arrows indicate  
10 photos; the R's indicate residences. So R6, for  
11 example, is one of six residences, is that  
12 correct?

13 DR. PRIESTLEY: That's correct.

14 MR. HARRIS: Okay, so by the photo  
15 numbers they can reference these views, as well,  
16 off the aerial.

17 DR. PRIESTLEY: Okay, good.

18 MR. HARRIS: Thanks.

19 DR. PRIESTLEY: Yeah. So, anyway, yeah,  
20 photo 3 is a view towards residence 5. And you  
21 can see that this residence is completely  
22 surrounded by a board fence. There are these very  
23 large California pepper trees out front. So as a  
24 consequence, the residents of this home do not  
25 have views towards the plant site. Both because

1 of the barriers created by the fencing and  
2 landscaping, and also because of the view  
3 obstructions created by the orchard and home on  
4 the other side of the road.

5 And then as you continue down the road,  
6 you come to residence 6, which is the Passantino  
7 residence, which is located on the north side of  
8 the road. Photo 5 in our photo set here is a view  
9 looking north into the Passantino property, kind  
10 of looking towards their backyard.

11 And what you see here is that the  
12 primary living areas of this home are surrounded  
13 again by a very high board fence. So between the  
14 home and the fence it blocks the views from the  
15 road towards the plant site.

16 Photo 4 is a view from the Passantino  
17 backyard. One day last spring I went down to  
18 Blanchard Road and had a visit with the  
19 Passantinos, and was able to take a very very  
20 close look at the home and exactly what the  
21 viewing situation there was.

22 And it's clear that because of the  
23 fencing, in particular, the Passantinos do not  
24 have a view towards the power plant site from  
25 inside their home. And for the most part they do

1 not have a view towards the plant site from the  
2 primary living areas of their yard.

3 Behind the home is this enclosed patio  
4 with a swimming pool and as photo 4 indicates,  
5 when you are in that outdoor living area, because  
6 of the fence, because of the trees behind the  
7 fence, you are, for the most part, not seeing  
8 views toward the plant.

9 I should point out though if you look on  
10 the next page --

11 CHAIRMAN KEESE: Excuse me, wasn't photo  
12 4 taken from over by the railroad tracks?

13 DR. PRIESTLEY: No, it wasn't. I think  
14 one of the problems here is --

15 CHAIRMAN KEESE: So this was taken in  
16 the backyard --

17 DR. PRIESTLEY: Yeah, this was taken in  
18 the backyard. One of the problems here is that  
19 I've put together photos that came from a couple  
20 of different submissions, so --

21 CHAIRMAN KEESE: Okay, that's fine.  
22 That's fine, so as long as I understand we're in  
23 the backyard of R6.

24 DR. PRIESTLEY: Yeah. And then as you  
25 turn the page here, I have a couple photos that

1           indicate that yes, if you are over in the side  
2           yard of the Passantino property, which is an  
3           orchard, from there you do have a view towards the  
4           plant site.

5                       Also as the photo on the bottom of that  
6           page indicates, photo 7, if you are in the back  
7           area behind the area where the swimming pool is,  
8           it's kind of a service yard for the Passantinos,  
9           and if you are back in that service yard, you  
10          would also have a view towards the plant site.

11                      MR. HARRIS: Tom, I guess the salient  
12          point there is for residence 6 there's no views  
13          from inside the house, is that correct?

14                      DR. PRIESTLEY: That's correct.

15                      MR. HARRIS: And the only views you have  
16          are photo 6, the side yard, and photo 7, the  
17          orchard, is that correct?

18                      DR. PRIESTLEY: Well, the orchard that  
19          serves as kind of a service yard in the back.

20                      MR. HARRIS: Okay, thanks. Continue,  
21          please.

22                      DR. PRIESTLEY: And now actually if we  
23          could flip to the last page, page 5 of 5. If you  
24          can look at what's called photo 2 on the top of  
25          page 5.

1                   And then refer to the air photo -- I'm  
2                   sorry to make this so complicated, but then as you  
3                   travel further down the road you pass first, after  
4                   the Passantino house, you pass a big shop  
5                   structure.

6                   And then beyond that you come to R3 and  
7                   R4. And on photo 2, if you look you can see these  
8                   twin palm trees kind of over on the right side of  
9                   the photo. You'll see that R3 is the home that's  
10                  right behind the palm trees. It fronts on  
11                  Blanchard Road.

12                  So for this residence views towards the  
13                  plant site are screened. Actually this home is  
14                  just in front of those palm trees, the building  
15                  across the street is a structure that had once  
16                  been used for farmworker housing, but is no longer  
17                  used for that purpose. So the residence I'm  
18                  talking about is actually just in front of those  
19                  twin palms.

20                  But in any case, looking at this photo  
21                  you can see that from inside this home, and from  
22                  the use areas behind this home views toward the  
23                  plant site are blocked by the mobile home behind  
24                  it.

25                  And then, in turn, for this mobile home,

1       which is R4 on our air photo, views towards the  
2       project site are blocked by all of the parked  
3       vehicles in this vehicle storage area that you can  
4       see on the photo, but apparently popped up  
5       sometime after this air photo was taken.

6               Then as you move further down the road,  
7       at the very right-hand corner of our air photo you  
8       come to R2, residence 2.

9               MR. HARRIS:  So you're on page 5 of 5,  
10       it's listed as photo 1, is that correct?

11               DR. PRIESTLEY:  And then to get an image  
12       of that residence, look at photo 1 at the bottom  
13       of page 5 of 5.

14               So what this, I think, makes very clear  
15       is that this home is behind this row of pine  
16       trees.  And then taking a look at the photo you  
17       can see that between the row of pine trees and  
18       Tulare Hill, from inside this home, from the use  
19       areas in the immediate vicinity of this home you  
20       do not have a view towards the project site.

21               However, as CEC Staff has pointed out to  
22       us, if you go stand in the corner of the yard  
23       here, just a little bit above where you see R2, if  
24       you stand out in this area it's kind of like an  
25       informal use area that since this is a piece of a

1 larger agricultural property, it doesn't exactly  
2 have like a yard, but you could say that well, if  
3 you stand out in this area that might be available  
4 for the use of the residents of this home, if you  
5 stand out there in this far corner, yes, in fact,  
6 if you stand there you would be able to have a  
7 view towards the site of the proposed project.

8 MR. HARRIS: Okay, so let's walk through  
9 it in summary. There are six residences on  
10 Blanchard Road, is that correct?

11 DR. PRIESTLEY: That's correct. The  
12 sixth residence is further down the road and it's  
13 completely behind Tulare Hill. And its views are  
14 completely unquestionably screened by the hill.  
15 So that's where the sixth one come in.

16 MR. HARRIS: Okay. So we have six  
17 residences on Blanchard Road. You said of those  
18 six residences, none of the six residences have a  
19 view within the house or the primary living area,  
20 is that correct?

21 DR. PRIESTLEY: That is correct.

22 MR. HARRIS: And then of those six, two  
23 of them have views from basically from side yards,  
24 is that correct?

25 DR. PRIESTLEY: That's correct.

1                   MR. HARRIS: So essentially two of the  
2 six residences from side yards you might be able  
3 to see towards the plant?

4                   DR. PRIESTLEY: That's correct.

5                   MR. HARRIS: And Blanchard Road is also  
6 oriented to the east and the west, is that  
7 correct?

8                   DR. PRIESTLEY: That's correct, and  
9 that's very important to note because we know that  
10 in evaluating the sensitivity of views from  
11 residential areas that the Energy Commission takes  
12 into account not only views from homes, but views  
13 that residents might have as they are circulating  
14 about their neighborhood.

15                   And in this case, because of the  
16 street's east/west orientation, and the fact that  
17 the power plant site is located well to the north,  
18 if you are driving into or out of Blanchard Road,  
19 the power plant site would not be in your primary  
20 cone of vision.

21                   So, for example, when you drive into  
22 Blanchard Road you don't see the -- you wouldn't  
23 see the power plant like right at the end of your  
24 street, and it wouldn't be like right next to your  
25 street, sort of like looming over your

1 streetscape. It's kind of like well off to the  
2 side of your normal cone of vision, at least for  
3 someone who would be driving in and out of the  
4 neighborhood.

5 Something else to point out, too, is  
6 that because of the configuration of land uses  
7 along Blanchard Road, in fact from a big chunk of  
8 this road your views toward the plant site would  
9 be blocked by the various structures on the north  
10 side of the road.

11 And, again, you can see that very  
12 clearly on your air photo.

13 MR. HARRIS: So, again, traveling up and  
14 down Blanchard Road, because of the east/west  
15 orientation you're not going to have a lot of --  
16 you won't have a view of the plant, is that  
17 correct?

18 DR. PRIESTLEY: That's correct.

19 MR. HARRIS: Can we talk about visual  
20 quality and visual sensitivity real briefly, since  
21 staff has used those as significance criteria?

22 DR. PRIESTLEY: Yeah. Staff has  
23 indicated that the quality of the views from  
24 Blanchard Road is, if I'm correct, moderately  
25 high. And my assessment is that the quality of

1 the views from Blanchard Road are moderately low  
2 to moderate, and for two reasons.

3 One, if you are looking straight at the  
4 plant site from one of the areas where there's  
5 nothing in the foreground, you're just kind of  
6 looking across the open field to the plant site.  
7 There is some level of visual degradation because  
8 of the presence of the existing clusters of  
9 transmission lines on Tulare Hill. One of those  
10 towers something on the order of 176 feet tall. So  
11 there's that.

12 And perhaps more importantly, or just as  
13 important, from many portions of Blanchard Road  
14 when you are looking towards the plant site, you  
15 know, in those situations where you can see it, in  
16 many cases what you are seeing in the foreground  
17 is nonresidential activities.

18 Blanchard Road is not a strictly  
19 residential enclave. It's kind of a -- it's a  
20 rural area where there is really kind of a mix of  
21 activities going on. There are the residences,  
22 but there's also a stone shop; there's an RV  
23 storage facility; there is some kind of a truck  
24 depot. So in many places along the road you're  
25 seeing things that are, you know, definitely

1 nonresidential in character.

2 And what you can see, say for example,  
3 in photo 8, on page 4 of 5, you see, you know,  
4 lots of parked trucks on the road. You see stuff  
5 from the stonework shop that's kind of out on the  
6 edge of the street.

7 MR. HARRIS: So the general degraded  
8 quality then leads you to believe, then, that this  
9 area is actually low to moderate visual quality,  
10 and not moderate to high, is that correct?

11 DR. PRIESTLEY: That is correct.

12 MR. HARRIS: The second criteria staff  
13 applies is visual sensitivity. Can you briefly  
14 summarize your conclusions on that, as well?

15 DR. PRIESTLEY: Yeah, my conclusion is  
16 that the level of visual sensitivity is low  
17 because it is not seen from any residences. And  
18 because it is seen only from peripheral areas of  
19 two residences. And that it is not visually  
20 prominent in the views of people as they are  
21 circulating around their neighborhood.

22 MR. HARRIS: So your bottomline  
23 conclusions are then visual quality is low to  
24 moderate and visual sensitivity is low, is that  
25 correct?

1 DR. PRIESTLEY: That is correct.

2 MR. HARRIS: And that's based upon the  
3 CEC Staff's criteria for significance in visual  
4 sensitivity and quality, is that correct?

5 DR. PRIESTLEY: Yes.

6 MR. HARRIS: I understand you had one  
7 more set of handouts that you'd like to go  
8 through.

9 PRESIDING MEMBER LAURIE: But before you  
10 proceed, Mr. Harris, I need clarification of Dr.  
11 Priestley's testimony on the issue of sensitivity.

12 Why don't you turn to photo 6.

13 DR. PRIESTLEY: Yes.

14 PRESIDING MEMBER LAURIE: It's my  
15 understanding that the plant would be visible in  
16 photo 6, --

17 DR. PRIESTLEY: Yes, --

18 PRESIDING MEMBER LAURIE: -- photo 6  
19 location.

20 DR. PRIESTLEY: Yes, it would. If you  
21 can see that transmission tower, the power plant  
22 would be a little bit to the right of the  
23 transmission tower that you see.

24 PRESIDING MEMBER LAURIE: I may have a  
25 challenge articulating my question, so bear with

1 me.

2 DR. PRIESTLEY: Okay.

3 PRESIDING MEMBER LAURIE: If you have a  
4 standard subdivision lot and you want to know what  
5 the impact of the view is on that particular  
6 resident, would you primarily focus on the  
7 residence, itself, on the view from the residence,  
8 itself?

9 DR. PRIESTLEY: I would take a look at  
10 the view from the residence and a view from the  
11 primary use areas on the vicinity. So I would  
12 really kind of consider the residence in the  
13 context of the neighborhood, as well. I would  
14 look very carefully, you know, try to pinpoint  
15 both factors.

16 PRESIDING MEMBER LAURIE: Okay. Let's  
17 say you had a residence on a 20-acre parcel. And  
18 the 20-acre parcel offered different views from  
19 different locations on that parcel.

20 Where would you focus your examination?  
21 For example, if a project was invisible from the  
22 residence, but highly visible from the southeast  
23 corner of the 20-acre parcel, would that be  
24 significant?

25 DR. PRIESTLEY: I would want to do kind

1 of a careful analysis of well, what is the use of  
2 the parcel. Take a look, where is the primary use  
3 area. If there were a corner where you might have  
4 a view of the project, I'd try to evaluate, well,  
5 just how frequently is that corner used. And, you  
6 know, what is the nature of that use. Is this  
7 where they have their, you know, like their little  
8 meditation den, or is this where they fix their  
9 cars.

10 I'd try to take all those things into  
11 consideration.

12 PRESIDING MEMBER LAURIE: Do you believe  
13 that to be a CEQA standard? That is, nature of  
14 the use of the location being examined.

15 DR. PRIESTLEY: CEQA provides us very  
16 very little guidance in terms of evaluation of the  
17 significance of impacts, so what I have chosen to  
18 resort to in evaluation of impacts is to adhere to  
19 the decision rules that CEC Staff has established  
20 in previous proceedings as kind of a formula for  
21 evaluating what is and what is not significant.

22 PRESIDING MEMBER LAURIE: Okay, thank  
23 you. And your testimony is that in looking at  
24 photo 6, that the sensitivity is not high because  
25 of the particular use to which this part of the

1 owner's property is being put, is that correct?

2 DR. PRIESTLEY: For that location, yes.

3 PRESIDING MEMBER LAURIE: Are there  
4 any -- there's no doubt, and I applaud you on your  
5 credentials, is it fair to say that aesthetics and  
6 visual impacts are related to individual  
7 psychology? That is, it's how people react to  
8 what they're seeing?

9 DR. PRIESTLEY: Well, based on my  
10 professional training and experience I would say  
11 it's a very very complicated formula. That, in  
12 fact, there are individual differences in the way  
13 that individuals respond to things.

14 But, at the same time, there are some  
15 kind of within the context of our culture there  
16 are some responses that are, let's say, fairly  
17 predictable, or are relatively common.

18 So it is kind of a mix of the universal  
19 and the individual, I'd say.

20 PRESIDING MEMBER LAURIE: How far is the  
21 spot from which photo 6 was taken from the  
22 residence?

23 DR. PRIESTLEY: Oh, the residence is  
24 just about next door. If you see the -- well,  
25 let's say the Passantino residence is just about

1 next door. If you see those trees over on the  
2 right of the Passantino residence in their fenced  
3 area, it is just a little bit to the right of  
4 that.

5 PRESIDING MEMBER LAURIE: A hundred  
6 feet?

7 DR. PRIESTLEY: Yeah, the residence,  
8 itself, yeah, I think that's fair.

9 PRESIDING MEMBER LAURIE: Okay. So, if  
10 one were to walk out of their residence no more  
11 than 100 feet and engage this view would one not  
12 likely be disturbed by the view of the power  
13 plant?

14 DR. PRIESTLEY: That one is a little bit  
15 difficult to give a blanket answer to because I  
16 think that there are a number of different ways  
17 that you could look at and evaluate this.

18 One is the day I went down to take a  
19 look at things, I talked to Mark Passantino. And  
20 he was, you know, rather -- he was, well, pleased  
21 that somebody actually had come to take a look at  
22 what was going on on his property, because a lot  
23 had been made about views from his property, but  
24 no one had, up to that point, had taken the time  
25 to actually come down and take a look.

1                   So, he was pleased. But at the same  
2                   time, he was a little bit bemused about, you know,  
3                   what all the stir was about, because at least  
4                   talking to him his own personal response that he  
5                   conveyed to me is that, you know, --

6                   PRESIDING MEMBER LAURIE: Okay, well,  
7                   that's a little too much hearsay.

8                   DR. PRIESTLEY: Okay. Sorry.

9                   PRESIDING MEMBER LAURIE: The point of  
10                  my question is in anticipation I have, without any  
11                  evidence in front of me, that people view the  
12                  entirety of their property as very much their  
13                  castle.

14                 And it could very well be, again I would  
15                 surmise that one's view at the end of their ten-  
16                 acre parcel is just as important to an individual  
17                 as one's view from their typical subdivision  
18                 backyard.

19                 You may want to impose some  
20                 reasonableness standard there. And I'm surmising  
21                 that that's kind of what you are doing, and if I  
22                 understand your testimony, is that this location,  
23                 not being in the immediate, within 100 feet of the  
24                 residence, is not sufficiently sensitive to make  
25                 the impact significant.

1 DR. PRIESTLEY: That is essentially what  
2 I'm arguing, yes.

3 PRESIDING MEMBER LAURIE: Okay, thank  
4 you for the clarification, sir.

5 Mr. Harris.

6 MR. HARRIS: Thanks. We've got one more  
7 set of handouts. We're closing on this point.

8 CHAIRMAN KEESE: While you're doing  
9 that, are we going to use this photo for more than  
10 this purpose? Because do I see the entry to the  
11 property outlined in black, is that -- the power  
12 plant is etched in fine black lines, and the  
13 entrance to it goes across Blanchard Road and --

14 DR. PRIESTLEY: Yes.

15 CHAIRMAN KEESE: That's what we have?  
16 Thank you.

17 MR. HARRIS: Tom, I understand based  
18 upon -- your job was to figure out, you know, what  
19 the CEC Staff considers to be significant, and one  
20 of the things you did was to look at their  
21 findings related to the alternative sites, and  
22 compared that to this KOP1.

23 Okay, we're focusing on the KOP1, the  
24 one of 11 or one of 9, depending on how you count  
25 them. But you have a significant disagreement

1 with staff.

2 And so explain to us all what these  
3 photos are that are being passed around, and how  
4 you're going to use those.

5 DR. PRIESTLEY: Yeah, what's being  
6 passed around right now is a set of photos that  
7 was filed as a part of our alternatives analysis,  
8 and in that filing there is a more detailed  
9 explanation of exactly what these are, and how  
10 they were created.

11 But to get right to the point, they are  
12 views of each of the CEC Staff's, at least of four  
13 of the CEC Staff's alternatives sites taken from  
14 viewpoints that we thought were important.

15 We attempted to super --

16 MS. WILLIS: Excuse me, --

17 DR. PRIESTLEY: We took the plan for  
18 Metcalf --

19 MS. WILLIS: -- I want to object to  
20 this. I mean this is testimony that hasn't -- I  
21 mean it's just been filed, but --

22 MR. HARRIS: We're not offering it into  
23 evidence here, we're using it for illustrative  
24 purposes to show what the staff has determined to  
25 be significant as it relates to the alternative

1 sites, and the Metcalf site.

2 MS. WILLIS: And these pictures are from  
3 staff's testimony?

4 MR. HARRIS: These pictures are from  
5 applicant's testimony that has been filed for the,  
6 I think the alternative section, but again we're  
7 not going to move them into evidence --

8 MS. WILLIS: Well, no, I guess --

9 MR. HARRIS: We'd use them the same as  
10 we would use whiteboards to show those areas.

11 MS. WILLIS: I'd like to address the  
12 Committee. My concern is that pictures can be  
13 taken from any number of locations and  
14 orientations. And these may or may not be  
15 representative of the alternative sites.

16 So just to clarify that point.

17 HEARING OFFICER FAY: Okay, we'll take  
18 that as clarification. The objection's overruled.  
19 Go ahead, Mr. Harris.

20 DR. PRIESTLEY: So what these --

21 MS. DENT: I'm going to put in an  
22 objection --

23 MR. AJLOUNY: Wait a minute.

24 MS. DENT: I want to put an objection on  
25 the record, too, to the testimony because it is

1 testimony on impacts from alternative sites, and  
2 we're not here today to address alternative sites.

3 MR. HARRIS: Actually that's not the  
4 purpose of the testimony at all. If you'll let us  
5 get to it, although he explained the offer.  
6 Essentially what we're doing, the question before  
7 us is what does the CEC Staff consider to be a  
8 significant visual impact.

9 We have four alternative sites. We're  
10 going to go through them quickly, give you the  
11 staff's bottomline determination, and to compare  
12 that to this site so you can see how the staff  
13 significance criteria is applied.

14 PRESIDING MEMBER LAURIE: In applicant's  
15 view.

16 MR. HARRIS: In applicant's view.

17 MR. AJLOUNY: Is that review in the  
18 alternative section of their point of view of  
19 visual impacts? When you just stated that last  
20 sentence.

21 MR. HARRIS: No, that's not what I  
22 meant. If you interpreted it that way, no.

23 MR. AJLOUNY: Okay, so it has nothing to  
24 do with the way the staff looks at alternative  
25 sites in the area of visual?

1                   MR. HARRIS: It has everything to do  
2 with how the staff determines significant visual  
3 impacts. And that's the purpose of the testimony.  
4 And I will not be moving these documents into  
5 evidence. They're like the whiteboards we've been  
6 pointing at all day. I just didn't want to go  
7 through and mock-up five giant, or ten in this  
8 case, giant whiteboards. If you want me to do  
9 that, I can do that.

10                   HEARING OFFICER FAY: We'll overrule the  
11 objections and let --

12                   MR. AJLOUNY: But I just --

13                   HEARING OFFICER FAY: -- proceed.

14                   MR. AJLOUNY: Well, I just feel that  
15 opens the door for us to talk about alternative  
16 sites in that area, that's all. If they can do  
17 it, we can do it.

18                   PRESIDING MEMBER LAURIE: Well, I guess  
19 that's not where we're going.

20                   MR. HARRIS: It actually isn't where  
21 we're going, and, Tom, why don't you proceed and  
22 he can be cross-examined obviously on what you  
23 present, so go quickly.

24                   DR. PRIESTLEY: So, anyway, in terms of  
25 what you're seeing here, to the best we could we

1           took the layout of the Metcalf facility,  
2           configured it so that it would fit on these sites,  
3           and then prepared visual simulations to show what  
4           a power plant like Metcalf would look like if it  
5           was located on each of these sites.

6                         The first one that you see is a view of  
7           alternative site 1 from Zanker Road, about a third  
8           of a mile north of highway 237. I don't have the  
9           exact traffic data; this is a moderately well  
10          traveled road. It's used by people going to and  
11          from Alviso to the wildlife refuge.

12                        MR. HARRIS: Tom, on the bottom that's  
13          the photosimulation, so the top is the as-  
14          existing, and the bottom is the photosimulation?

15                        DR. PRIESTLEY: Yes, it is.

16                        MR. HARRIS: And what was the CEC  
17          Staff's finding related to significant impacts  
18          from this view?

19                        DR. PRIESTLEY: The CEC Staff concluded  
20          that a power plant like Metcalf located on Alt  
21          site 1 would have an impact that was less than  
22          significant.

23                        MR. HARRIS: So, this is an  
24          insignificant --

25                        MR. AJLOUNY: I object to the fact that

1 he's going to testimony that hasn't been --

2 MR. HARRIS: He's objected and he's --

3 DR. PRIESTLEY: Well, you see what

4 I'm --

5 HEARING OFFICER FAY: We've overruled

6 the objection.

7 MR. HARRIS: The objections are taking

8 longer than this testimony.

9 HEARING OFFICER FAY: Please, let them

10 go ahead.

11 BY MR. HARRIS:

12 Q Okay, Tom, the natives are restless, so

13 quickly to site 2.

14 DR. PRIESTLEY: Okay, that sheet is Alt

15 site 2 as viewed from highway 237; this is a view

16 north towards that greenhouse area. The lower

17 photo shows you what this site would look like

18 from highway 237.

19 This viewpoint was selected because this

20 highway has an average daily traffic of 108,000

21 vehicles per day, making it one of the most

22 heavily traveled routes in Santa Clara County.

23 MR. HARRIS: So based upon the CEC

24 Staff's criteria for significance, they found this

25 to be what?

1 DR. PRIESTLEY: Less than significant in  
2 impact.

3 MR. HARRIS: So this is less than  
4 significant impact. Go now to sheet 3, Tom,  
5 please quickly.

6 DR. PRIESTLEY: Okay, this is a view  
7 toward Alt site 4. As you know alt site 4 is in  
8 the City of Fremont --

9 MR. HARRIS: Alt site 3.

10 DR. PRIESTLEY: Alt site 3, rather, is  
11 in the City of Fremont. About a third of a mile  
12 north of there you come to the Newark City limit.  
13 And just across Stevenson Boulevard, just inside  
14 Newark is a very very dense residential area that  
15 exits onto Stevenson Boulevard by way of Parada  
16 Street, so this is a view looking down Parada  
17 Street towards the project site.

18 So this is a view towards the project  
19 that would be seen from the windows on the upper  
20 and lower storeys, the front doors, front yards of  
21 a number of townhouses. And would also be seen by  
22 the many many residents of this area as they exit  
23 the neighborhood via Parada Street.

24 MR. HARRIS: And, again, applying the  
25 CEC Staff's criteria, what was the find about this

1 viewshed?

2 DR. PRIESTLEY: CEC Staff concluded that  
3 a power plant on this location would have a visual  
4 impact that was less than significant.

5 MR. HARRIS: Okay, now go to alternative  
6 site 4.

7 DR. PRIESTLEY: Alternative site 4 is in  
8 Fremont on South Fremont Boulevard just north of  
9 Grimmer. This is a view from South Fremont  
10 Boulevard looking across the project site.

11 South Fremont Boulevard carries an  
12 average daily traffic of 17,500 vehicles. It has  
13 been identified in both the Alameda County scenic  
14 route element and in the City of Fremont city plan  
15 as a designated scenic route, primarily because of  
16 the views towards the East Bay Hills that are  
17 possible from that route.

18 MR. HARRIS: And again, the findings of  
19 significance here?

20 DR. PRIESTLEY: CEC Staff concluded that  
21 a power plant like Metcalf on this site would have  
22 an impact that was less than significant.

23 MR. HARRIS: So for all four of these  
24 the findings was less than significant?

25 DR. PRIESTLEY: That's correct.

1                   MR. HARRIS: And will you turn now to  
2                   the last page. This is the view from KOP1, is  
3                   that correct?

4                   DR. PRIESTLEY: Yeah, this is the view  
5                   from KOP1 which is kind of at the east end of  
6                   Blanchard Road, in fact you can see the corner of  
7                   the Passantino orchard there on your left.

8                   So if you were standing on the side of  
9                   the road and looking due north, this is the view  
10                  towards the site that you would have.

11                  MR. HARRIS: And, again, this is a view  
12                  the CEC Staff found to be significant?

13                  DR. PRIESTLEY: Yes, it is.

14                  MR. HARRIS: Do you agree with that  
15                  conclusion?

16                  DR. PRIESTLEY: No, I do not.

17                  MR. HARRIS: So based upon the  
18                  application of the staff's criteria for the  
19                  alternatives sites, what conclusion do you draw?

20                  DR. PRIESTLEY: It reinforces my  
21                  conclusion that the impact of the proposed project  
22                  on the views from KOP1 would be less than  
23                  significant.

24                  MR. HARRIS: And that's in large part  
25                  due to the six residences, the few number of

1 viewers and the no major highway, is that correct?

2 DR. PRIESTLEY: That's correct.

3 MR. HARRIS: I want to move subjects  
4 now. Let's leave KOP1.

5 PRESIDING MEMBER LAURIE: I have a  
6 question. Oh, I'm sorry, go ahead.

7 MR. HARRIS: Sure. I wanted to move on  
8 to the next potential significant issue.

9 PRESIDING MEMBER LAURIE: In looking at  
10 your last page now my understanding is the same  
11 residence is in photo 6 in the previous set of  
12 pictorials, the last page of the document that  
13 you've been testifying from?

14 DR. PRIESTLEY: Yes.

15 PRESIDING MEMBER LAURIE: Okay. That's  
16 the same residence as photo 6, right?

17 DR. PRIESTLEY: Okay, I'm sorry, yeah.  
18 Photo 6. If you were standing a little bit over  
19 to the right of the view that you see in photo 6  
20 you would be seeing this view.

21 PRESIDING MEMBER LAURIE: And is it your  
22 testimony that that's not significant?

23 DR. PRIESTLEY: Yes, it is. Applying  
24 the criteria that the CEC has used for determining  
25 significance, and as you recall the formula used

1 to determine if the preconditions exist for a  
2 significance to take place is if the quality of  
3 the existing view is moderate to moderately high,  
4 and if the level of sensitivity is, let's see,  
5 moderately high to high.

6 And my opinion is because of the small  
7 numbers of residences potentially affected in this  
8 area, and because the views affected are not  
9 primary views, we're talking about two residences.  
10 We're not talking about views from homes. We're  
11 talking about views from a small portion of these  
12 two properties.

13 For that reason I have concluded that  
14 the sensitivity of this view does not meet the  
15 test of being moderately high.

16 PRESIDING MEMBER LAURIE: Okay, thank  
17 you, sir.

18 MR. AJLOUNY: Can I just make one  
19 statement.

20 MR. HARRIS: No.

21 MR. AJLOUNY: Regarding the surprise --

22 HEARING OFFICER FAY: I'm sorry, no. Go  
23 ahead, Mr. Harris.

24 MR. HARRIS: Okay, we're moving on now  
25 past KOPl, and I want to talk about the issue of

1 the combination of views. And this was described  
2 as being a combination of views throughout the  
3 area.

4 Can you provide us with a little bit of  
5 a background on that? Specifically from reading  
6 the FSA, could you determine what this combination  
7 of views criteria meant?

8 DR. PRIESTLEY: No, I couldn't.

9 MR. HARRIS: And could you elaborate on  
10 that, please. For example, could you determine  
11 from the FSA what views were being combined?

12 DR. PRIESTLEY: No, I couldn't.

13 MR. HARRIS: Could you determine which  
14 homes were affected by those combined views?

15 DR. PRIESTLEY: No. Those homes were  
16 not identified.

17 MR. HARRIS: And could you determine who  
18 would be seeing these views, who'd be travelling  
19 in the area?

20 DR. PRIESTLEY: There was no discussion  
21 of any of these items. Several blanket assertions  
22 were made, but there was -- no analysis was  
23 presented to provide evidence to back up these  
24 assertions.

25 MR. HARRIS: So you had difficulty

1           determining which views exactly were being  
2           combined, is that correct?

3                     DR. PRIESTLEY: That's correct.

4                     MR. HARRIS: Were any KOPs used in this  
5           analysis from what you can tell?

6                     DR. PRIESTLEY: No reference was made to  
7           impacts on specific KOPs.

8                     MR. HARRIS: Again, there's no  
9           indication of which KOPs were being used at this  
10          point?

11                    DR. PRIESTLEY: There was not.

12                    MR. HARRIS: Has staff presented  
13          evidence that supports this assertion that there'd  
14          be some combination of views that would  
15          substantially degrade the visual character of the  
16          surroundings?

17                    DR. PRIESTLEY: Again, as I read the  
18          three or so paragraphs that constituted this  
19          analysis there was a series of assertions, but no  
20          specific evidence was presented to indicate, well,  
21          what specifically are the views, and how  
22          specifically are they being affects, and how are  
23          these views different from the views included or  
24          represented by the 11 KOPs.

25                    And so, in fact I was a little bit

1           mystified by this analysis because I really had a  
2           very strong feeling that our 11 KOPs did a pretty  
3           good job of representing the universe of views  
4           towards the project site from around the viewshed.

5                         In fact, if you compare this project to  
6           other typical CEC projects, you'll see that we  
7           have a lot of KOPs, 11. And like in Delta I think  
8           there were a total of four, one of which was for  
9           the transition station rather than for the power  
10          plant, itself.

11                        So, you know, my feeling is that the  
12          KOPs do a very good job of kind bracketing all of  
13          the views. And what you can say about the KOP  
14          based analysis is that for each of those we have  
15          quite a lengthy and specific analysis of what it  
16          is we're seeing, how many people are affected,  
17          what the quality of the view is, how the view is  
18          going to change.

19                        We have visual simulations that show us  
20          exactly what's going to happen. And I know also,  
21          too, we've submitted countless photographs and  
22          cross-sections. So, yeah, we have a pretty good  
23          record for determining, well, how much are we  
24          going to be able to see and how is the presence of  
25          the project going to affect these views.

1                   That's why I was a little bit stunned to  
2                   read this analysis that suggests that, well,  
3                   there's this universe of views out there that  
4                   somehow weren't reflected in the KOPs that we  
5                   missed. And then to have, without any evidence,  
6                   to have these conclusions being made that, oh,  
7                   well, because of the effects on these unnamed  
8                   views we're going to have a significant impact.

9                   MR. HARRIS: So you've never seen this  
10                  kind of a combination of views analysis in  
11                  anything else you've ever done, is that correct?

12                 DR. PRIESTLEY: I have never seen one  
13                 like this one.

14                 MR. HARRIS: Okay. There was some  
15                 question as to whether this might be a subset of  
16                 cumulative impacts analysis, but I understand that  
17                 staff -- is it your understanding that it is not a  
18                 subset of cumulative impacts?

19                 DR. PRIESTLEY: You know, I can't tell.

20                 MR. HARRIS: Okay, fair enough. With  
21                 regard to this whole issue of the combination of  
22                 views, what's your bottomline analysis?

23                 DR. PRIESTLEY: Well, I guess my  
24                 bottomline analysis is that I would entertain, I  
25                 suppose, this kind of a finding if I could see the

1 data on which it is based.

2 If I saw the views that were being  
3 talked about, if I were presented a matrix showing  
4 me how exactly the effect on each of the views  
5 that was being combined was being affected, and in  
6 what way, and if I saw, for example, some  
7 justification that weights might be attached to  
8 each of these effects to somehow combine them to  
9 create a cumulative effect or an overall effect,  
10 then, yeah, then I would be willing to talk about  
11 it, you know, to consider it very very carefully.

12 But, again, what I see is a whole series  
13 of assertions without any supporting evidence.

14 MR. HARRIS: So without that supporting  
15 material you basically can't support this view, is  
16 that correct?

17 DR. PRIESTLEY: No, I can't.

18 MR. HARRIS: I want to move to the third  
19 area now that was considered by staff in the  
20 cumulative impacts of the Metcalf project.

21 Let's begin with the Metcalf project,  
22 itself. Can you talk about how Metcalf has  
23 mitigated its contribution to the area's  
24 cumulative impacts.

25 DR. PRIESTLEY: There are a number of

1 things that are relevant here, and you know, in  
2 fact you'll be hearing a little bit more about  
3 this in detail from Paul Stocks, the project  
4 architect, a little bit later.

5 But Calpine has gone to extraordinary  
6 lengths on this project to hire world class talent  
7 to come in to figure out a way to make the  
8 structures involved neat, attractive, designed  
9 them in a way that's going to fit into the  
10 evolving landscape in this area.

11 At the same time the project has been,  
12 you know, really lavishly landscaped. We have a  
13 landscape plan that shows hundreds of plants.  
14 Calpine hired the landscape architect who works  
15 for the firm that developed the guidelines for the  
16 North Coyote Industrial campus, so he was very  
17 very well versed in exactly what the landscape  
18 design idiom for this region is.

19 And he took great pains to follow the  
20 design guidelines to create a planting scheme that  
21 would be consistent with that which is being  
22 called for for the adjacent properties.

23 And then there are other kind of siting  
24 things that helped this project that went in. The  
25 fact that it is located in this corner of the

1 valley, up against Tulare Hill, which provides  
2 screening for a very large area to the north -  
3 well, to the northwest and to the west, and to  
4 some degree the southwest. Which, at the same  
5 time, provides kind of a visual backdrop so that  
6 the taller elements are seen against the hill  
7 rather than against the sky.

8 MR. HARRIS: How about in terms of  
9 acreage here, what are we talking about?

10 DR. PRIESTLEY: The project site is  
11 something less than 20 acres, it sits at about 15.

12 MR. HARRIS: And subject to check would  
13 you accept that that represents about 1.5 percent  
14 of the land in the future Coyote Valley  
15 development area?

16 DR. PRIESTLEY: Yeah, it's a very very  
17 small amount in relationship to the rest of the  
18 area that is now slated for development.

19 MR. HARRIS: If you also assume in the  
20 future the closest row of buildings in the CVRP  
21 campus, would those have a screening effect, as  
22 well?

23 DR. PRIESTLEY: If you were looking  
24 towards the project site from say the area where  
25 the Coyote Valley Parkway would be entering the

1 site, yeah, the plant would be very very well  
2 screened. You know, unless you were just like  
3 right at the very north end of that project, for  
4 most views the views toward the power plant would  
5 be pretty well screened.

6 MR. HARRIS: So, again, what's your  
7 bottomline conclusion related to the cumulative  
8 impacts of the Metcalf project?

9 DR. PRIESTLEY: Yeah, my conclusion is  
10 that this project would not combine with the  
11 effects of these much much bigger projects to have  
12 a cumulative effect.

13 MR. HARRIS: Okay, thank you. There's  
14 some discussion about LORS compliance in the  
15 testimony of staff, as well, and I think there  
16 were initially 16 LORS that were considered out of  
17 compliance with.

18 Can you, without going through each one  
19 of those, please, do you agree with that finding  
20 of 16 LORS?

21 DR. PRIESTLEY: No, I don't.

22 MR. HARRIS: What was your finding with  
23 regard to this?

24 DR. PRIESTLEY: Well, there are a couple  
25 things that we can say about, you know, if you're

1 counting compliance with LORS, there are a couple  
2 things that you can say.

3 One is since the time that staff  
4 prepared its final staff assessment, staff  
5 analysis, the City of San Jose has adopted a  
6 revised version of the master development plan for  
7 the north Coyote industrial campus.

8 A number of the things that had been  
9 included as guidelines in those documents that are  
10 counted as part of that 16 are no longer  
11 regulations or guidelines, so there's now no  
12 question of conflict.

13 MR. HARRIS: And that's acknowledged in  
14 staff's testimony, is that correct?

15 DR. PRIESTLEY: In the most recent  
16 testimony, it is.

17 MR. HARRIS: So the number 16 is no  
18 longer correct?

19 DR. PRIESTLEY: That's correct.

20 MR. HARRIS: Do you believe Metcalf is  
21 in substantial compliance with the applicable  
22 LORS?

23 DR. PRIESTLEY: Yes, it would be fair to  
24 say it's in substantial compliance. There are  
25 some things that are guidelines to which the

1 project does not comply.

2 For example, the MDP guidelines indicate  
3 that the entrances to campuses should be marked by  
4 a cluster of four trees, and our current landscape  
5 plan does not do that. We have some reasons for  
6 not doing it, but if the City would like us to do  
7 that, there's really no reason why that couldn't  
8 be done.

9 MR. HARRIS: But in the general  
10 hierarchy of LORS, these seem to be things that  
11 are more along that order, is that correct?

12 DR. PRIESTLEY: The ones in which there  
13 is clearly, you know, a lack of -- where clearly  
14 there isn't exact compliance, they are the  
15 elements that are down at the lower end of the  
16 hierarchy.

17 Again, very specific design guidelines  
18 which are, in fact, framed in a way in which they  
19 sound like they are intended to provide guidance,  
20 that they are not strict requirements.

21 MR. HARRIS: Now, Mr. Priestley, you've  
22 offered some suggestions on conditions of  
23 certification. Rather than going through each of  
24 those, I think we'll just note that here and make  
25 you available for cross-examination on VIS1, 5, 9

1 and 11. I understand others are prepared to  
2 discuss VIS10, so with your agreement we'll move  
3 past that, if that's okay?

4 DR. PRIESTLEY: Okay.

5 MR. HARRIS: You've also reviewed  
6 staff's rebuttal testimony, is that correct?

7 DR. PRIESTLEY: That's correct.

8 MR. HARRIS: And does that in any way  
9 change your conclusions?

10 DR. PRIESTLEY: No, it does not.

11 MR. HARRIS: Can you briefly now give us  
12 your bottomline conclusions.

13 DR. PRIESTLEY: Yeah, my final  
14 conclusion is that the project would not have a  
15 significant adverse visual impact on views from  
16 the Blanchard Road area. That the project would  
17 not have a significant adverse impact on a  
18 combination of views from throughout the area.  
19 And that it would not contribute to the creation  
20 of a significant cumulative impact.

21 MR. HARRIS: Thank you. Move to the  
22 next witness now and talk about the issues related  
23 to the plume, actually the next two witnesses will  
24 deal with the plume issue because that's been an  
25 issue of specific concern to the community and

1 others.

2 And so I want to start with Mr. Jim  
3 Dunstan, he's been previously sworn.

4 Jim, can you again state your name for  
5 the record, and spell it.

6 MR. DUNSTAN: My name is James Dunstan;  
7 last name is spelled D-u-n-s-t-a-n.

8 MR. HARRIS: And can you briefly  
9 summarize your qualifications.

10 MR. DUNSTAN: I hold a bachelor of  
11 science and master of science degrees in  
12 mechanical engineering from Washington University  
13 in St. Louis. I have been a registered  
14 professional mechanical engineer in California  
15 since 1973. And I've been directly involved in  
16 the design of power plants and power plant systems  
17 of various types for essentially my entire 30  
18 years with Bechtel.

19 MR. HARRIS: I'd ask is there any  
20 objection to stipulating to Mr. Dunstan's  
21 qualifications, and we can stop at that point.

22 PRESIDING MEMBER LAURIE: Yes, the  
23 Committee will accept him as an expert.

24 MR. HARRIS: Thank you. Jim, you're  
25 going to talk about the plume abated cooling tower

1 and the HRSG, the HRSG, heat recovery steam  
2 generator plume abatement.

3 Can you give us a brief description of  
4 the proposed hybrid wet/dry cooling tower?

5 MR. DUNSTAN: The type of cooling tower  
6 proposed for the Metcalf Energy Center is  
7 generically known as a hybrid. More commonly  
8 known as a wet/dry tower.

9 There are a number of variations on the  
10 design, but they all operate on the same basis,  
11 that is that a portion of the total air flow into  
12 the tower is not admitted to the wet section of  
13 the tower, but rather is admitted through a series  
14 of heat transfer elements that increases the  
15 temperature of this dry air, ambient air, and then  
16 mixes it with the saturated air coming out of the  
17 wet section of the tower, effectively reducing the  
18 relative humidity of the exhaust air, and  
19 therefore its dew point temperature.

20 The effect is that the plume travels  
21 farther from the top of the tower before the water  
22 vapor in the plume condenses into visible  
23 droplets. And is therefore diluted in the  
24 surrounding ambient air so that those droplets do  
25 not form.

1                   MR. HARRIS:  So you've described how the  
2                   plume forms.  Can you talk about the design  
3                   limitations for the cooling towers?

4                   MR. DUNSTAN:  Wet/dry hybrid cooling  
5                   towers are generally specified to be so-called  
6                   plume-free at a combination of ambient dry bulb  
7                   temperature and coincident relative humidity.

8                   The design of the towers is such that at  
9                   higher ambient temperatures or lower relative  
10                  humidities than at nominal design point the water  
11                  vapor and the exhaust will not condense into  
12                  visible droplets when mixing with the cooler  
13                  ambient air.

14                  Below the design point temperature and  
15                  above the design point humidity water vapor in the  
16                  exhaust will begin to condense around the  
17                  periphery of the columns of moist air leaving the  
18                  top of the tower.

19                  As the temperature drop and the humidity  
20                  increases, a greater fraction of the total water  
21                  vapor in the discharged air will condense into  
22                  water droplets that are visible.

23                  This technology can be applied to a  
24                  point, and in fact the technology is most commonly  
25                  used in situations where a cooling tower is very

1 close to a flight path, where a visible water  
2 vapor plume might obstruct visibility; or is very  
3 close to a roadway in regions that have very low  
4 ambient temperatures, very cold weather, such that  
5 the condensed water vapor could form ice on the  
6 roadways or could obscure visibility on the  
7 roadways.

8 None of those conditions exist in the  
9 north end of the Coyote Valley in Santa Clara  
10 County, California.

11 The extent to which a hybrid tower can  
12 be designed to prevent the formation of visible  
13 water vapor droplets is limited in that there is  
14 only a fixed amount of heat available in the water  
15 that is sent to the tower for cooling.

16 And at a certain set of ambient  
17 temperature and humidity conditions the tower, in  
18 order to prevent formation of a visible plume,  
19 would have to operate entirely as a dry heat  
20 exchanger. There would be no water allowed  
21 flowing over the wet section of the fill, because  
22 in fact the ambient air would be already so close  
23 to the dew point that any additional moisture  
24 would cause the formation of a visible plume.

25 In discussion with the manufacturers of

1       these types of towers, and we've been dealing with  
2       three, and one in particular, GEA Thermal  
3       Dynamics, which has done -- they've provided  
4       lists, all three of these vendors have provided  
5       lists of plume abated towers to us, and there are  
6       literally dozens of them in use all over the  
7       world, almost entirely in cold climates.

8                   GEA has told us that much below the  
9       temperature conditions that we've proposed for the  
10      Metcalf Energy Center the wet/dry cooling tower  
11      may not be possible, total prevention of a plume  
12      may not be possible. And that, in fact, the size  
13      of the tower would approach and possibly even  
14      exceed the size of an air cooled condenser for the  
15      same duty.

16                   Therefore, it's my conclusion that the  
17      tower that we've proposed for the Metcalf Energy  
18      Center is pushing the envelope for the size and  
19      thermal duty and weather conditions to be expected  
20      in the north end of the Coyote Valley in Santa  
21      Clara County, California.

22                   MR. HARRIS: Let's talk about that  
23      design. You talked about it being 30 degrees  
24      Fahrenheit, and is it 90 degrees relative  
25      humidity?

1                   MR. DUNSTAN: 90 percent relative  
2                   humidity.

3                   MR. HARRIS: 90 percent, I'm sorry.  
4                   What does that mean in simplest terms?

5                   MR. DUNSTAN: That means it's an  
6                   extremely chilly damp day in the Coyote Valley.  
7                   This is a very unusual weather conditions, when  
8                   it's that cold and that damp simultaneously.

9                   MR. HARRIS: So, put another way then,  
10                  if the temperature is above 30 degrees Fahrenheit  
11                  and the relative humidity is below 90 percent, --

12                  MR. DUNSTAN: There will be no visible  
13                  plume from this tower.

14                  MR. HARRIS: -- that means there will be  
15                  no visible plume from the tower. And that's the  
16                  design point which you've set this facility to?

17                  MR. DUNSTAN: That's what we've  
18                  proposed.

19                  MR. HARRIS: Let's talk a little about  
20                  the HRSG now, the heat recovery steam generator  
21                  abatement scheme. Can you give us a brief  
22                  description of how you're going to physically  
23                  prevent the formation of plumes there.

24                  MR. DUNSTAN: Again, the potential for  
25                  the formation of a visible water vapor plume from

1 a HRSG exhaust stack is due to the moisture  
2 content of the exhaust air.

3 In the case of a combined cycle plant,  
4 unlike a fired boiler plant, the percent moisture  
5 in the exhaust gas is much lower than in a  
6 conventional fired boiler plant.

7 It's not at all unusual on moderately  
8 cool mornings to see very impressive water vapor  
9 plumes coming out of the tops of these tall stacks  
10 in all the existing fired boiler plants. And  
11 that's because they run at very low excess air,  
12 because air does not help them generating power.  
13 In fact, it absorbs heat from the fuel and does no  
14 good.

15 So, in a combined cycle plant, first we  
16 have a better situation as far as plume formation  
17 because the moisture content of the exhaust gas is  
18 diluted by the excess air that is used to actually  
19 produce more power in a gas turbine.

20 So if a plume is to form it will form at  
21 a much lower temperature or higher humidity than  
22 would be the case for a plume formation from a  
23 fired boiler plant.

24 Also, in a combined cycle plant it's  
25 relatively easy to increase the temperature of the

1 exhaust gases. The heat recovery steam generator  
2 is a very effective heat transfer device. It's  
3 very effective at absorbing heat from the exhaust  
4 gas; by intentionally reducing its effectiveness  
5 more of that energy is allowed to escape to the  
6 atmosphere.

7 In the case of the HRSGs for the Metcalf  
8 Energy Center we've confirmed that at the design  
9 point conditions we've been talking about, which  
10 is 30 degrees dry bulb and 90 percent relative  
11 humidity, we can entirely shut off the flow of  
12 boiler feedwater to the final stage of the heat  
13 transfer sections in the boiler that nears the  
14 stack, that is. And immediately effect a 100  
15 degree increase in the temperature of the gas  
16 going up the stack.

17 Specifically we can raise the  
18 temperature of the exhaust gas from about 188  
19 degrees to about 288 degrees.

20 MR. HARRIS: Is this through the use of  
21 an economizer bypass system?

22 MR. DUNSTAN: Correct.

23 MR. HARRIS: In layman's terms for those  
24 of us who had a liberal arts education, can you  
25 tell us how that economizer bypass system helps to

1 eliminate the plume formation?

2 MR. DUNSTAN: Well, first off it's  
3 called an economizer because it captures one last  
4 bit of heat from the exhaust gas before it goes  
5 into the sections that actually boil the water  
6 into steam.

7 And economizer bypass is a three-way  
8 valve that's incorporated in every HRSG. It's  
9 used during starting the unit, when the exhaust  
10 gas is relatively cold. And we simply bypass the  
11 water around that heat transfer section and right  
12 into the first evaporator sections.

13 In the case of Metcalf Energy Center,  
14 and by the way we did this in Crockett, too, and  
15 it worked great -- that valve is automated rather  
16 than having a crank on it, we put an electric  
17 motor, a pneumatic positioner on it, and the  
18 control room operator can simply punch a button or  
19 rely on a control algorithm that knows what the  
20 weather is to modulate the flow of water into the  
21 economizer such that the stack gas temperature is  
22 higher than it would otherwise be.

23 MR. HARRIS: So by keeping that stack  
24 gas temperature high you're able to eliminate the  
25 plume?

1 MR. DUNSTAN: Correct.

2 MR. HARRIS: Thank you. Again, I want  
3 to go off script and just basically move to your  
4 bottomline. What are your bottomlines regarding  
5 the design of the plume abatement facilities for  
6 both the cooling tower and the HRSG?

7 MR. DUNSTAN: The technologies we've  
8 proposed and the design point conditions that  
9 we've proposed will be very effective in  
10 eliminating the occurrence of visible water vapor  
11 plumes to a small number of hours of extreme  
12 weather conditions of extremely low ambient  
13 temperature and coincident high relative humidity  
14 in the Coyote Valley in Santa Clara County,  
15 California.

16 MR. HARRIS: Thank you. Keeping with  
17 the plume issue I wanted to go now to Mr. Gary  
18 Rubenstein.

19 Mr. Rubenstein, you filed some rebuttal  
20 testimony, including a table that was made  
21 available and marked as exhibit 97, is that  
22 correct?

23 MR. RUBENSTEIN: Yes, that's correct.

24 MR. HARRIS: Before we have Gary begin  
25 can I ask that we stipulate to his qualifications

1 as an expert to avoid that extra time?

2 PRESIDING MEMBER LAURIE: The Committee  
3 has experience with Mr. Rubenstein and can  
4 stipulate that he is an expert.

5 MR. HARRIS: Thank you. Let's go  
6 directly into your testimony then, Gary. What did  
7 you look at when you looked at the plume issue?

8 MR. RUBENSTEIN: We took a look at --  
9 well, first of all, there's been several analyses  
10 done of plume visibility for both the cooling  
11 tower and heat recovery steam generators using  
12 different meteorological data sets. And we've  
13 attempted to reconcile those different analyses  
14 and try to reach some common conclusions with the  
15 analyses done by the staff. And we think the  
16 common conclusions are many.

17 First, we think it's clear that the  
18 abatement systems proposed for the cooling tower  
19 and for the heat recovery steam generator both  
20 substantially reduce the potential for plume  
21 formation from either system.

22 Second of all, we think there's a common  
23 conclusion that the total number of hours per year  
24 when there's a potential for formation of a  
25 visible plume will vary. It will vary from year

1 to year based on meteorological conditions and it  
2 will vary from location to location in terms of  
3 which meteorological data site you believe best  
4 characterizes what's actually happening at the  
5 project site.

6 Third area of commonality is that  
7 whether you're looking at the cooling tower or the  
8 heat recovery steam generator the vast majority of  
9 hours when there is the potential for a visible  
10 plume to form are at night.

11 The next area of commonality is that  
12 during the few hours per year when there is a  
13 potential for either the cooling tower or the heat  
14 recovery steam generator to form a visible plume,  
15 during those daylight hours the vast majority of  
16 those daylight hours are associated with  
17 conditions of either low fog or rain that would  
18 serve to obscure the view of the plume.

19 And then lastly we think it's an area of  
20 commonality that the plume abatement systems used  
21 for both the cooling tower and for the heat  
22 recovery steam generators will make any visible  
23 plume during hours that are outside of the design  
24 bounds very more translucent.

25 The best description of that is that

1 taking a look at the cooling tower, for example,  
2 the cooling tower is designed to have no visible  
3 plume at condition of 30 degree Fahrenheit/90  
4 percent relative humidity in the ambient air.

5 The modeling systems used both by the  
6 staff and by us would conclude that at 29 degrees  
7 Fahrenheit and 90 percent relative humidity there  
8 might be the potential for formation of a plume.  
9 But it's not like someone turns a flashlight on in  
10 a dark room. You will have the beginnings of a  
11 formation of a plume, and it will be gradual. And  
12 the further you get away from the design point the  
13 stronger the plume will be.

14 But when you talk about conditions that  
15 are very close to the design point, if a plume is  
16 formed at all, it's going to be fairly translucent  
17 in nature. It's not going to suddenly be there,  
18 as opposed to not being there a few degrees cooler  
19 or a few degrees warmer.

20 Those are the areas of commonality. In  
21 the table that was attached to exhibit 97 we laid  
22 out the various analyses that have been done. The  
23 top half of the table we compared the results for  
24 the cooling towers.

25 And starting on the left-hand side is

1 the analysis that was included in data response  
2 90, which indicated that we believe that the  
3 cooling towers would result in potential for a  
4 visible plume 188 hours per year. And of that  
5 total 45 hours per year would be during daylight  
6 hours.

7 The second column indicates a correction  
8 of our response to data response 90, still using  
9 the same modeling system, but we had prepared that  
10 data response in September of 1999. Since that  
11 time we have refined and improved our modeling  
12 system.

13 That shows for the original cooling  
14 tower design that it would have the potential for  
15 a visible plume 380 hours per year, which 84 were  
16 during daylight.

17 The next five columns on the top half  
18 all take a look at the new cooling tower designed  
19 with the more advanced abatement system. And  
20 that's the system designed to eliminate plume  
21 formation at 30 Fahrenheit and 90 percent relative  
22 humidity.

23 The first column shows what was in the  
24 CEC Staff's testimony indicating that there would  
25 be a potential for formation of a plume between

1 zero and three daylight hours per year with that  
2 abatement system based on the 1992 San Jose met  
3 data, and 30 hours per year total.

4 Using our modeling system and exactly  
5 the same meteorological data set, we concluded  
6 there's a potential for 11 daylight hours per year  
7 for the cooling tower, 62 hours per year total.  
8 We predicted a greater potential than the staff  
9 did.

10 The central column for 1993 IBM met data  
11 is the met data that's been used for all the  
12 dispersion modeling for this project, and it's  
13 been used in all of the disciplines; and it was  
14 used for the engineering design basis for the  
15 plant, as well.

16 So it's not surprising that the cooling  
17 tower abatement system is predicted to show zero  
18 hours per year with that database, and that's how  
19 the plant was designed and that's the data set  
20 that was used.

21 Moving further to the right, looking at  
22 the San Martin data, we predicted that there's a  
23 potential for 17 hours, daylight hours per year of  
24 visible plume, 95 hours per year including night.

25 In the far right column is the only area

1 where we really have a substantial disagreement  
2 with the staff. They predict, using the San  
3 Martin data, with exactly the same design far more  
4 hours per year potential visible plume.

5 The other thing that's important to know  
6 is the modeling system that we use has the ability  
7 to predict the length of the plume as well as the  
8 frequency with which it occurs.

9 And, again, on those central columns  
10 you'll see a distribution of the lengths. One  
11 thing that you note is that the frequency of all  
12 plumes, look for example at the daylight hour  
13 number, where for the San Jose 1992 data we show  
14 11 hours per year, even though there are no hours  
15 where plumes are predicted with lengths of less  
16 than 400 meters.

17 The reason, and this is really  
18 important, is that both of the modeling systems  
19 that we used and the staff used have a  
20 mathematical problem dealing with 100 percent  
21 humidity. If there is 100 percent humidity then  
22 these modeling systems predict a plume of infinite  
23 length. Because the atmosphere simply has no  
24 capacity to absorb additional moisture. If the  
25 humidity was 99.9 percent you'd reach a different

1 conclusion. But at 100 percent these mathematical  
2 models reach the conclusion that a plume length is  
3 infinite.

4 What that means in the real world is  
5 that those are conditions when the air is truly  
6 completely saturated. Most likely to be either  
7 fog or rain conditions where you're going to be  
8 obscuring the plume anyway.

9 And so what the data shows is that again  
10 looking at the cooling tower and looking at the  
11 range of data sites, most of the hours in the year  
12 when there is the potential for visible plume are  
13 either going to be at nighttime or they're going  
14 to be under weather conditions when there's a  
15 likelihood of fog or rain.

16 There's a similar discussion at the  
17 bottom part of the table for the heat recovery  
18 steam generator. And the bottomline conclusion I  
19 come to is that when you exclude nighttime hours  
20 and when you exclude weather conditions where  
21 there's the potential for either fog or rain to  
22 obscure the view, that the plume abatement systems  
23 for the HRSG and for the cooling tower are likely  
24 to have a visible plume result -- have a potential  
25 for a visible plume to form less than five hours

1 per year.

2 MR. HARRIS: That's five hours per year  
3 out of 24 hours, nighttime and daytime, is that  
4 right?

5 MR. RUBENSTEIN: That's five hours per  
6 year of hours during daylight hours when there is  
7 not fog or rain having a potential to obscure the  
8 plume.

9 MR. HARRIS: Okay, thank you for that  
10 clarification. Does that conclude your testimony?

11 MR. RUBENSTEIN: Yes, it does.

12 MR. HARRIS: Thank you. I want to move  
13 to I think our final witness, Mr. Paul Stocks.  
14 Paul Stocks is a principal with the Hillier  
15 Architecture firm. He is here pinch-hitting for  
16 one of his associates, Mr. David Finsey. Paul got  
17 on a plane, I think, this morning, 5:00 or 6:00  
18 his time. Last night I found out he was coming  
19 out, so he's here.

20 But he is a principal of the firm. He  
21 also has worked on this project. We have his  
22 declaration and his qualifications which we'll  
23 pass out and make available to everyone, as well.  
24 But please do understand that Paul is standing in.

25 And so we're going to take him briefly

1 through the architectural issue. And, again, this  
2 is one that I know that has been of some interest  
3 to folks, and we'll do that very briefly.

4 But, if you could, Paul, please state  
5 your name for the record so I get it straight.

6 MR. STOCKS: My name is Paul Stocks.

7 MR. HARRIS: And, Paul, can you briefly  
8 go through your education and profession, since  
9 we're just handing that out now.

10 MR. STOCKS: Yes. I have a BA in  
11 architecture which I got in 1977. I've got an MA  
12 in architecture in 1980, both from Manchester  
13 University in England.

14 I've been licensed, and I'm registered  
15 as an architect with the Royal Institute of  
16 British Architects since 1982. And I've practiced  
17 in London, in Paris, Berlin. For the past four  
18 years now I've been practicing in New York.

19 MR. HARRIS: And we appreciate your  
20 coming out on such a short notice from New York.

21 I want to talk about the Hillier Group.  
22 Can you give a real brief summary of what Hillier  
23 Architecture is all about.

24 MR. STOCKS: The Hillier Group is the  
25 fourth largest architectural firm in the U.S.

1           It's the 11th largest in the world. We've been in  
2           business now for 34 years. We have nine regional  
3           offices, mostly based in the east coast, but we  
4           have a regional office in Dallas, in Kansas City,  
5           as well.

6                         Our head office is, in fact, in  
7           Princeton where Robert Hillier, our founder, has,  
8           in fact, been teaching at the School of  
9           Architecture at Princeton University for the past  
10          20 years. So that's our main head office.

11                        MR. HARRIS: And what's your approach to  
12          your work?

13                        MR. STOCKS: Well, our primary approach  
14          is to respond to the client's needs. We have to  
15          actually listen quite closely to what they do, in  
16          fact, need. Because what we want to end up with  
17          is creative practical solutions based upon the  
18          function, the task, the site and last but not  
19          least, is the aesthetics of the whole thing. We  
20          must actually get those right.

21                        MR. HARRIS: By way of background, can  
22          you briefly describe some of Hillier's experience  
23          with the industrial and power facility designs?

24                        MR. STOCKS: Well, one very well known  
25          project that we have, in fact, worked on is the

1 cogeneration plant at John F. Kennedy  
2 International Airport, which is a very central  
3 location, right in the middle of the airport.

4 It's actually a location that has 300  
5 million people --

6 MR. HARRIS: Understand you have a photo  
7 that we can put up behind you there --

8 MR. STOCKS: Yes, we do.

9 MR. HARRIS: -- to kind of show the  
10 Kennedy Airport. And I guess color handouts of  
11 the previously served documents, so you'll have  
12 those, as well. We'll pass those out.

13 MR. STOCKS: This project was  
14 particularly well received. It had an AIA design  
15 award, which is a very prestigious. We have had a  
16 lot of very positive feedback on it.

17 What it is, essentially is a mechanical  
18 unit which we've clad in a way that we think that  
19 we've actually made it more comprehensible and  
20 more in keeping with the surrounding buildings.

21 We can see the design of the unit is  
22 something that picks up some of the motifs of the  
23 surrounding buildings of the airport terminals.

24 Here, for example, we actually see that  
25 there's a very strong dominant structural grid

1           which allows us to overlay an element of  
2           simplicity to what is quite a complex arrangement  
3           of machinery behind that overlaying grid.

4                       MR. HARRIS:  And I understand you've  
5           also worked on similar projects, as well?

6                       MR. STOCKS:  Yes, we have.  We've  
7           actually taken the same philosophy of approach to  
8           this mechanical design, and we've decided that --  
9           this is a very small building, but nevertheless in  
10          a very similar location, that it's actually also  
11          very prominent.

12                      It's in an urban situation, in the heart  
13          of New York City, for Rockefeller University.  
14          It's seen by a lot of people driving up the FDR  
15          Drive on the East River.

16                      MR. HARRIS:  Paul, let me interrupt for  
17          just a second.  These are in the back of the  
18          handout that we just got the color photos, towards  
19          the end.  I think it's three or four pages from  
20          the end.  It's an unnumbered page that says on the  
21          bottom Rockefeller University chiller plant  
22          housing.  So if you can't follow along with Paul  
23          over here, you should have it in front of you, as  
24          well.

25                      MR. STOCKS:  What we're seeing with that

1 type of design is, see once again we're showing  
2 the mechanical plant actually through a regular  
3 structure grid, which gives the simplicity to the  
4 units that it's housing.

5 Here, for example, we have another  
6 industrial type solution to a brewery which is  
7 actually in a suburban setting. Once again, we  
8 can see that we're looking at the mechanical units  
9 of the utility. We're displaying those, but we're  
10 displaying those in a setting in a way that  
11 actually fits in with the architecture, the  
12 contextual architecture of the buildings in that  
13 area.

14 MR. HARRIS: Let's turn now to -- I was  
15 captivated by the pictures, I'll try to stop --  
16 let's turn now to Hillier's interactions on the  
17 concept design for the Metcalf Energy Center.

18 Can you provide us with a brief history  
19 of the work you've done on the Metcalf Energy  
20 Center?

21 MR. STOCKS: Yes. We first came out two  
22 years ago, about two years ago, the design team  
23 from Hillier, which was myself and David Finsey,  
24 our design principal. And we came to see, we saw  
25 the potential of the site. And we saw that this

1 was a very interesting site for us to look at and  
2 to actually achieve something that was really  
3 worthwhile.

4 We had a directive from Calpine to  
5 actually make a showcase plant in many ways.  
6 Calpine was very conscious that this was the  
7 gateway to San Jose; and San Jose is their  
8 hometown, so Calpine gave us the very strong  
9 directive that this was going to be their  
10 showcase. And that's what we were looking to  
11 provide.

12 We saw that we could, in many ways,  
13 mitigate the effect of the existing transmission  
14 towers, which are quite prominent on Tulare Hill,  
15 and we thought that that could be done by  
16 screening or in some way, something happening at  
17 low level which would, in fact, favorably impact  
18 the visual appreciation of those transmission  
19 towers.

20 MR. HARRIS: Now can you briefly  
21 describe for us your view of the architect's task  
22 when they are dealing with these kind of  
23 situations with a power plant?

24 PRESIDING MEMBER LAURIE: I'm sorry,  
25 review the architect's?

1 MR. HARRIS: The architect's task.

2 PRESIDING MEMBER LAURIE: Task.

3 MR. HARRIS: What is the task you've  
4 been charged with?

5 MR. STOCKS: Well, our task is to  
6 actually make sure that what we end up with is  
7 something that is not just the developers of the  
8 utility, what they want, but we want to in fact  
9 give everybody who interacts with it the maximum  
10 visual pleasure possible, that's what we're after  
11 really. That's our task.

12 Our success is measured by the number of  
13 people that appreciate what we do, not just the  
14 ones that are asking us to get involved in the  
15 design of the project.

16 MR. HARRIS: Of course you have to work  
17 within a certain defined envelope I would assume?

18 MR. STOCKS: Well, yes, we do. In this  
19 particular case we were constrained to some extent  
20 by the requirements of air quality modeling. But  
21 within those constraints we were able to come up  
22 with a number of different designs, which were  
23 able to express different themes and different  
24 concepts.

25 So, we had constraints, but then again

1 in many cases all architectural problems do, in  
2 fact, have constraints, and the modeling is just,  
3 in fact, one of those constraints.

4 MR. HARRIS: Okay, so working with that  
5 envelope, have you identified I guess several  
6 different approaches to how you might go forward?

7 MR. STOCKS: Yes. Well, in fact, one of  
8 the initial tasks that we set ourselves was really  
9 just looking at just how industrial design and how  
10 plant design is actually treated around the world.

11 MR. HARRIS: You're looking at -- this  
12 is the last slide in the handout, if I'm correct,  
13 is that right?

14 MR. STOCKS: That's correct, yes. What  
15 we see here is a power plant in Denmark, just  
16 outside Copenhagen, in fact, and this reflects in  
17 many ways many of the basic methods of working or  
18 methods of design that we've actually, we've been  
19 thinking about, as well, in fact.

20 It's got a regular strong grid, and it's  
21 got an element of screening to a unit which is  
22 made more comprehensible, more sleek. And that is  
23 a very successful approach.

24 What we also have up in the top right-  
25 hand corner is a power plant in New Jersey which

1           also has a very strong screen to it, which once  
2           again allows the unit to be rendered into a simple  
3           clear form.

4                       MR. HARRIS: I understand that Hillier  
5           is aware of about four basic distinct approaches  
6           to your task. And can you talk about each of  
7           those four, and how they apply here?

8                       MR. STOCKS: Well, that's right. We  
9           actually -- we thought there were, in fact, four  
10          ways of actually coping with this. And one of the  
11          ways, the first way that we could have actually  
12          coped with this is just by really leaving the  
13          plant alone. And that's just, one way is just to  
14          honestly express what it is. And perhaps that  
15          could be brought out by different paint schemes  
16          and different color schemes. That's one approach.

17                      That isn't necessarily the approach that  
18          we spent a long time looking at. Nevertheless  
19          it's a, that's the first approach that we actually  
20          had.

21                      MR. HARRIS: So the first approach is  
22          basically no screening?

23                      MR. STOCKS: That's right.

24                      MR. HARRIS: Leaving it as --

25                      MR. STOCKS: Open, yes.

1                   MR. HARRIS:  Okay, what's the second  
2                   approach?

3                   MR. STOCKS:  The second approach, which  
4                   we haven't actually -- we didn't actually look at  
5                   in great detail, this isn't the second approach  
6                   actually, but the second approach really is to  
7                   actually have the entire plant, if you like,  
8                   hidden by screens or hidden by walls.  The  
9                   mechanical units, themselves, actually housed  
10                  inside what could, in fact, be large boxes.

11                  We rejected that approach because we  
12                  rather thought the large boxes, themselves, are  
13                  going to actually add to the bulk of the entire  
14                  project.  And that seemed to us to be self-  
15                  defeating.  We actually wanted something which was  
16                  more expressive, more honest to the actual  
17                  function of the power plant, itself.  And also  
18                  something that's allowed us to be more sculptural  
19                  and perhaps more contextual, too.

20                  MR. HARRIS:  You rejected that second  
21                  approach basically --

22                  MR. STOCKS:  Largely we rejected that  
23                  second approach, yes.  Very simple, if you like,  
24                  block screening.

25                  MR. HARRIS:  What about your third

1 approach?

2 MR. STOCKS: Well, the third approach is  
3 this one here, actually. And this is perhaps one  
4 of the many iterations of the third approach. In  
5 fact, I will say that this does not, in fact, meet  
6 the requirements of air modeling, but nevertheless  
7 this is something that we looked at very closely,  
8 which was an approach whereby screens were used  
9 to, if you like, invoke another building form  
10 type. And the building form type that we're  
11 actually invoking here is an office block to some  
12 extent.

13 The screens in this design consist of  
14 stainless steel mesh, panels which are suspended  
15 from a space frame at the back. But,  
16 nevertheless, they are, with the horizontal  
17 striation they actually recall the horizontal  
18 striation of an office building.

19 So, we're trying to actually set this  
20 design inside its context, and the context we were  
21 looking for was the --

22 PRESIDING MEMBER LAURIE: And why does  
23 it, Mr. Stocks, why does it not meet air modeling  
24 requirements?

25 MR. STOCKS: In fact the requirement is

1 to -- what we have to actually have, none of our  
2 screening structure above 95 feet. So, in fact,  
3 this was --

4 MR. RUBENSTEIN: If I might help with  
5 that answer, Commissioner Laurie, the problem with  
6 that design is that the stack needs to be  
7 separated from the structure below it by a certain  
8 distance in order to enhance dispersion.  
9 Otherwise you can run into air quality problems, a  
10 condition called downwash where the wind blowing  
11 past the building can actually bring the plume  
12 down close to the ground more quickly before it  
13 has a chance to disperse.

14 PRESIDING MEMBER LAURIE: And so does  
15 that effectively mean that you cannot  
16 architecturally screen any tower?

17 MR. RUBENSTEIN: Except under very rare  
18 circumstances, yes, I believe so. If you took a  
19 look at most of the designs that were shown  
20 earlier, you saw that there was a separation  
21 between the stack and the rest of the design. And  
22 it is to enhance dispersion.

23 MR. STOCKS: But having said that,  
24 though, we actually see here that there is, in  
25 fact, a certain amount of screening to the stack,

1           itself. I mean we formed the stack in such a way  
2           that it starts to pick up the strict -- patening  
3           that we tend to see on buildings. So there is  
4           that level of screening to the stack. It just  
5           isn't the full plant screen that we see from top  
6           to bottom that we saw in the rejected scheme.

7                       MR. HARRIS: So, Paul, we were walking  
8           through the four different philosophies. Now are  
9           we on to number four now, or are we still on -- we  
10          don't have to go, if you want to go through those  
11          first.

12                      MR. STOCKS: The fourth philosophy is to  
13          actually screen the plant in a selective way such  
14          that we highlight various aspects of the plant  
15          which we think are interesting, and frankly,  
16          beautiful.

17                      And we can also use the screens to  
18          suppress and make less noticeable those aspects of  
19          the plant that we think that aren't really in the  
20          same league as the first subset.

21                      But what we can also do with frames is  
22          we can actually, with frames we can actually have  
23          set up these rhythmic and structured grids that we  
24          had seen on the JFK scheme, which allows us not  
25          just to have the entire bulk of the screen broken

1 down into comprehensible units, but it also, as I  
2 mentioned before, it allows us to actually apply  
3 simplicity to the complexity of the units behind.

4 MR. HARRIS: Okay, I want to take you  
5 off our prepared for just a second. You prepared  
6 an article which we filed and served on the  
7 history of the power plant design. Can you give  
8 us maybe two minutes on that history?

9 MR. STOCKS: Well, that's actually part  
10 of our appreciation of just where we were going  
11 with our design. It was quite important for us to  
12 actually understand the history of power plant  
13 design.

14 At the start of the century power plants  
15 were invariably in city centers because of the  
16 requirements of usage and transmission. And the  
17 architectural response to those power plants was  
18 actually quite, was of great interest to us.  
19 Architects in those days treated the power plants  
20 like cathedrals in many ways. And they had a very  
21 strong cadre of details, largely to actually make  
22 these very powerful structures acceptable to the  
23 people that were living in the cities.

24 We've actually, because of the changing  
25 technology, because power plants are so much

1 cleaner than they were 90 years ago, 80 years ago,  
2 power plants have actually come back into the  
3 cities or a close relationship with an urban  
4 environment. As we saw with the Danish example,  
5 which is very close to the outskirts of  
6 Copenhagen.

7                   Consequently there's a, once again  
8 there's a requirement to actually develop and  
9 express power plants as an architectural form.  
10 Which is actually one of the reasons why the AIA  
11 has responded so well to our efforts at JFK,  
12 because this was one of the first efforts, if you  
13 like, to actually take a very large unit, power  
14 plant, and give it a relevant meaning, if you  
15 like, in its cultural context.

16                   MR. HARRIS: I appreciate that context.  
17 And let's move now to your bottomline conclusions  
18 about the architecture for the project.

19                   MR. STOCKS: Well, we've actually done a  
20 lot of schemes. And all of these schemes that  
21 we're looking at here really are studies. And  
22 these studies, they show a number of different  
23 approaches to how we can actually screen and give  
24 a structural and sculptural form to the power  
25 plant, itself.

1                   But these studies also tell us that what  
2                   we're in the middle of is really an ongoing  
3                   process. We've not come to the end of our  
4                   investigation, because our investigation must, in  
5                   fact, be something that's an ongoing thing, which  
6                   involves the community, the city, the developers,  
7                   the neighbors and that's what we really want to  
8                   actually get feedback from, from the Commission,  
9                   too, to actually work out just where we are going,  
10                  and just how we can actually put some finite  
11                  decisions to a lot of these ideas that we actually  
12                  have.

13                  Having said that, I mean we have an idea  
14                  that version four of our approach is going to give  
15                  us the most -- is going to be the most fruitful in  
16                  the sense of what it gives us in terms of the  
17                  freedom to actually have different sculptural  
18                  forms and express the nice parts of the plant and  
19                  suppress the ones a little bit banal, shall we  
20                  say.

21                  MR. HARRIS: Thank you. And then  
22                  finally, Ken Abreu, the Project Manager. I'd like  
23                  you to briefly discuss the history of how the  
24                  architectural design has evolved through this  
25                  development process.

1                   MR. ABREU: Thank you. I think it's  
2                   just good, in context, to hear a little bit of  
3                   history of how we evolved the architecture for  
4                   Metcalf.

5                   From the time that the Metcalf Energy  
6                   Center was announced, I can tell you our chairman  
7                   of the board has been very very interested in this  
8                   being a hallmark plant architecturally. And  
9                   that's why we hired Hillier.

10                  And actually these first three pictures  
11                  you see here, which Paul just showed, were the  
12                  first three different approaches architecturally  
13                  that Hillier brought to us. And actually it was  
14                  the number two option that our management chose to  
15                  go ahead with.

16                  But at that time we decided, in talking  
17                  with the City and talking with developers, that we  
18                  also needed to satisfy the concerns of the  
19                  developers to the south, Cisco and Subrado. So we  
20                  showed these three architectural designs to the  
21                  developers to the south. The City said we should  
22                  make sure what we come up can satisfy them, as  
23                  well as us.

24                  So in talking to them we evolved the  
25                  architectural treatment which we originally filed

1 with the AFC back in April of '99, which is the  
2 one here that's listed as 06 in your little  
3 package, which is the fourth page back.

4 That's actually --

5 PRESIDING MEMBER LAURIE: Do these  
6 satisfy air modeling standards?

7 MR. ABREU: Yeah, that's what we  
8 submitted in 1999, in April of 1999, original AFC.

9 At that time there was still a lot of,  
10 let's say, desire on the part of the developers to  
11 the south of us to changes, to what really looked  
12 like an office building. That's really the  
13 direction they wanted to go in. And we wanted to  
14 satisfy them, so that's how we wound up with the  
15 design that Paul showed later, that we had the  
16 building-like design that went all the way to the  
17 top.

18 We submitted that in, I think, October  
19 or November of 1999. This seemed to -- we thought  
20 at that time would be satisfying the developers in  
21 moving forward.

22 At that time a couple things came out.  
23 One is it started to become pretty clear that the  
24 developers to the south were not going to support  
25 the project. They were going to oppose it no

1 matter what kind of architecture we had.

2 And number two, we also got some  
3 comments from the City in terms of moving the  
4 plant further away from the riparian setback area,  
5 and reducing its bulk, and reducing its size, and  
6 also an issue on 95-foot height limit.

7 So all those combined to say, okay,  
8 let's go back and see if we can come up with  
9 something that will kind of combine, you know,  
10 something that moves the plant, gets rid of some  
11 of the bulk, gets the height issue off the table.  
12 And that's when we came up with the design we have  
13 today, which we submitted in January of 2000.

14 And that's the architecture we have  
15 stuck with through the AFC.

16 The City later told us that they would  
17 like to have a design, an architecture that,  
18 quote, "celebrates" the plant, makes it look like  
19 a plant, doesn't hide it. Actually there were  
20 some articles written by architectural critics  
21 here in Silicon Valley that actually criticized  
22 our middle design as being a disguise of the  
23 plant.

24 Our management was very sensitive to  
25 that, didn't like that criticism. And that's one

1 of the reasons also that we changed to this last  
2 design.

3 So we went back to the City and said,  
4 you know, as long as we can work within the  
5 physical shapes of what we have now come up with,  
6 shown over there, we will be happy to change the  
7 form, the color, the patterns to be something  
8 that's more celebratory of the plant. And that's  
9 something, I think, would be more satisfying to  
10 our management, as well as them.

11 We brought Hillier out, Paul and David,  
12 last summer. Spent probably a couple hours with  
13 the City planning staff going through, I think we  
14 showed them about 30 different architectural  
15 treatments. And they got about a half a dozen or  
16 so that they thought were potentially ones that  
17 they might want to utilize in a final design.

18 And what we said to them and we said to  
19 the CEC Staff is as long as we can work within the  
20 physical parameters of where we've located things,  
21 because if you start moving buildings around and  
22 stacks around, you have to redo the air modeling,  
23 you have to redo your air permits. That's not  
24 acceptable to us. But as long as you can keep  
25 things basically where they are, you know, we're

1 willing to modify that design, to make something  
2 that people would be more satisfied with in the  
3 future. And we're happy to do that, it's going to  
4 go forward.

5 PRESIDING MEMBER LAURIE: Okay, well,  
6 that is certainly a question that is of importance  
7 to us. The question being what impacts, other  
8 than visual, are affected by modification to the  
9 architectural scheme.

10 MR. ABREU: Yes.

11 PRESIDING MEMBER LAURIE: What I'm  
12 trying to get to is if a design is determined post  
13 project approval, under what circumstances would a  
14 modification to the design as proposed in the AFC  
15 result in a necessity for a subsequent  
16 environmental review. Do you understand the  
17 question?

18 MR. ABREU: I think so. You're talking  
19 about other than visual?

20 PRESIDING MEMBER LAURIE: Yes.

21 MR. ABREU: I'll let Gary talk to this a  
22 little bit. We can't modify the design in a way  
23 that would cause us to have to redo the air  
24 modeling.

25 PRESIDING MEMBER LAURIE: Okay.

1                   MR. ABREU: And I'm going to let Gary  
2 talk to this a little bit more, but it means we  
3 can't raise the screens higher than they already  
4 are. So you'll see in the latest design, they'll  
5 dig that one out, but you can't have those screens  
6 go up higher where that would require us to redo  
7 the air modeling.

8                   PRESIDING MEMBER LAURIE: Okay, so, for  
9 example, number 35, you can't do that?

10                  MR. ABREU: No. That's right. You  
11 would have to redo the air modeling again.

12                  MR. RUBENSTEIN: Commissioner Laurie, if  
13 I could get more specific. In addition to the  
14 horizontal location on the site that's critical  
15 for the air modeling, the other dimension that is  
16 key is the distance between the top of the stack  
17 and the top of whatever shielding is used as part  
18 of the architectural treatment.

19                  As long as that distance remains  
20 essentially intact, then there's no effect on the  
21 air modeling as a result of different  
22 architectural changes below that level.

23                  And to the extent that there are changes  
24 that go above that level, that doesn't mean the  
25 design is unacceptable, it just means that there

1 would need to be an additional analysis to make  
2 sure that it didn't cause any violations of any  
3 air quality standards.

4 MR. ABREU: The other things you can  
5 change are like the stack shape could change.  
6 That wouldn't impact the modeling at all. And,  
7 Gary, you can tell me if I'm wrong.

8 But the locations of those key elements  
9 like the stacks and the cooling tower is the other  
10 area, and the height of the screen. You can lower  
11 the screenings, that wouldn't cause a problem.

12 MR. RUBENSTEIN: That's correct.

13 MR. ABREU: So you can take those down,  
14 move them in and out, but it's just those  
15 parameters that we have to work within.

16 MR. HARRIS: I think I would like to  
17 move our documents in if that's appropriate at  
18 this time.

19 HEARING OFFICER FAY: All right.

20 MR. HARRIS: We have discovered, for one  
21 thing, that we have two items 103. What Mr.  
22 Valkosky in his wisdom in the past has made them  
23 103A and 103B. But we've identified I think the  
24 MEC biological assessment as exhibit 103 in the  
25 biological section; and then the first one in this

1 section is CEC data responses starting with number  
2 89, we've identified that as 103, so I'd like to  
3 suggest that we make one of those 103A and 103B.

4 HEARING OFFICER FAY: Sorry, you're  
5 right, we have an overlap. Let's do that, the  
6 first one, the MEC biological assessment will be  
7 103A. And the data responses will be 103B. Thank  
8 you for that.

9 MR. HARRIS: Okay, so the documents we'd  
10 like to move in, exhibit 103B, exhibit 104,  
11 exhibit 46, exhibit 105, exhibit 95, which is our  
12 3-A testimony, exhibit 97 and there is actually an  
13 additional document that we've discovered during  
14 the break. It's applicant's rebuttal testimony to  
15 the CEC Staff. This is our 3-A visual plume  
16 resources testimony. We need to assign that a  
17 number, as well. So whatever the next number in  
18 the sequence would be.

19 HEARING OFFICER FAY: The next number in  
20 sequence is exhibit 106. And that is -- would you  
21 identify that again?

22 MR. HARRIS: It's the applicant's  
23 rebuttal testimony to CEC Staff's plume testimony,  
24 group 3A visual resources.

25 And so we'd like to move that item 106,

1 as well.

2 HEARING OFFICER FAY: Any objection to  
3 receiving these documents into evidence?

4 MS. WILLIS: The only objection I have  
5 are comments is that we did not receive exhibit 97  
6 until this morning on our way out the door. So  
7 we're unable to cross-examine. It was filed on  
8 the 13th, and everything was supposed to be due on  
9 Friday. So it was filed late.

10 HEARING OFFICER FAY: Okay, I received  
11 that three days ago, I guess.

12 MS. WILLIS: My stamp is yesterday, so  
13 it must have been after hours yesterday.

14 MR. HARRIS: No, it was --

15 MS. WILLIS: Served on the -- the  
16 dockets date is the 13th.

17 MR. HARRIS: Which is Tuesday, right?

18 MS. WILLIS: Right.

19 MR. HARRIS: That's correct, I'm sorry,  
20 I'm confused.

21 MS. WILLIS: And everything was due on  
22 Friday.

23 MR. HARRIS: Right. And rather than  
24 bringing it to the hearing we decided to serve it  
25 at that point. And we apologize. You should have

1           been provided a copy ahead of time, and I  
2           apologize.

3                       MS. WILLIS:   So we're unable to even --  
4           I haven't even consulted with my witnesses on this  
5           table at all, because we haven't had that  
6           opportunity.

7                       HEARING OFFICER FAY:   Mr. Harris, which  
8           witness would respond to this, to any cross-  
9           examination on this?

10                      MR. HARRIS:   Mr. Rubenstein.

11                      HEARING OFFICER FAY:   Okay.   We note  
12           staff's objection and I think we'll give them time  
13           to review this.   And if they need Mr. Rubenstein  
14           back, he's back --

15                      MR. ABREU:   In two weeks he'll be here  
16           anyway --

17                      MS. WILLIS:   That's what I would  
18           request, that he be available --

19                      MR. HARRIS:   That's more than reasonable  
20           and we apologize again.   And would accede to that  
21           request.

22                      HEARING OFFICER FAY:   And the same goes  
23           for all the parties.   If you do have questions  
24           about exhibit 97, Mr. Rubenstein will be made  
25           available in two weeks.

1                   Okay, with that, we'll receive the  
2                   identified exhibits into evidence.

3                   MR. HARRIS:   And I'd make the witnesses  
4                   available for cross-examination.

5                   HEARING OFFICER FAY:   Okay.   First of  
6                   all, we want to go around and get an estimate of  
7                   time from people on their cross-examination.

8                   MR. AJLOUNY:   Mr. Fay, can I ask one  
9                   question as far as the process?   I understood  
10                  surprise to be anything that we didn't know about  
11                  ahead of time.   And the testimony regarding the  
12                  alternate sites and the visual impacts, I feel the  
13                  applicant had plenty of time to put that in his  
14                  testimony so we could -- you know, I studied  
15                  visual and I'm ready to cross-examine, but I just  
16                  feel like it was a surprise.   I think they call it  
17                  surprise something, whatever.

18                  Am I missing something here, because I  
19                  don't feel I had enough time to cross-examine now  
20                  because it was surprised on us today, when the  
21                  applicant had plenty of time in their testimony  
22                  and rebuttal testimony.

23                  Am I off the wall?   Help me out.

24                  HEARING OFFICER FAY:   No, I think to  
25                  some extent you're on point, that they have

1 surprised us because they didn't file this in  
2 advance.

3 However, my understanding is that Mr.  
4 Harris is not introducing this, and is not even  
5 providing it to prove that these simulations are,  
6 in fact, true.

7 Is that correct? Your position is a  
8 challenge to the staff's criteria?

9 MR. HARRIS: The point of those  
10 documents was to take a look at what the staff  
11 determines to be significant visual impacts. And  
12 we provided those, again, in that form as opposed  
13 to a whiteboard, just so people could see where  
14 those impacts had been viewed as significant in  
15 the past versus the KOPl that we were dealing with  
16 here.

17 PRESIDING MEMBER LAURIE: So those  
18 pictures are not part of the evidentiary record.

19 MR. AJLOUNY: But shouldn't it have been  
20 part of their rebuttal or their testimony?

21 PRESIDING MEMBER LAURIE: Maybe so, but,  
22 Mr. Fay, you may agree with this or not. We are  
23 not a jury. If you're in front of a 12-member  
24 jury there are certain things that you dare not  
25 let them hear, you dare not let them see.

1                   If you're in front of a judge, then  
2                   there's much greater discretion because the judge,  
3                   in their experience, know what they're looking for  
4                   and in their own minds can discern what's relevant  
5                   and what's not relevant, what they're going to  
6                   use, what they're not going to use.

7                   And so there is greater flexibility when  
8                   you have those circumstances. So I would  
9                   understand the concern if the pictures, which  
10                  reflect a picture, were part of the evidentiary  
11                  record. They are not. They are simply used to  
12                  raise a point. We heard it. If you want to  
13                  cross-examine from that point out of necessity,  
14                  you're free to do that to the point that you think  
15                  it's relevant.

16                  I can tell you that its relevance is  
17                  somewhat, and so I would discourage an hour and a  
18                  half of cross-examination on that point.

19                  MR. AJLOUNY: And let me correct the  
20                  perception. I'm not really worried about the  
21                  pictures. I'm worried about that the applicant  
22                  didn't take the time to explain the issues in  
23                  their testimony and the rebuttal, and then this is  
24                  a surprise. And it's like my mind now I can't  
25                  think that quick to sit there and work out cross-

1 examination and to discredit. I'm certainly  
2 surprised that the -- right here, I'm sitting here  
3 speaking, I would hope that these words be coming  
4 out of the staff's lawyer's mouth.

5 PRESIDING MEMBER LAURIE: Well, maybe  
6 they have a different view of how important that  
7 testimony was. If it's not that important, if  
8 it's only that important, then folks are not going  
9 to spend a lot of time arguing about it.

10 MR. AJLOUNY: Well, I --

11 MR. HARRIS: Can I offer something here,  
12 as well. Mr. Priestley will be back as part of  
13 the alternatives testimony. And just as we did  
14 for the staff on the plume analysis, if Mr.  
15 Ajlouny wants to cross-examine Mr. Priestley on  
16 those pictures during the alternative section, we  
17 will make Mr. Priestley available and those  
18 documents available at that time, as well.

19 HEARING OFFICER FAY: Appreciate that.  
20 Might you be introducing this at that time into  
21 evidence?

22 MR. HARRIS: It is part of our prefiled  
23 testimony for the alternatives section. And so  
24 you actually should have a copy in the mail. But  
25 we will certainly make Mr. Priestley available

1           again at that time.

2                   HEARING OFFICER FAY:   Okay.

3                   MR. HARRIS:   I think that's fair --

4                   MR. AJLOUNY:   For everybody?

5                   MR. HARRIS:   For everybody.

6                   MR. AJLOUNY:   Thank you.

7                   HEARING OFFICER FAY:   So you will have a  
8           chance to --

9                   MR. HARRIS:   You'll get tired of Tom  
10          after awhile, but --

11                   PRESIDING MEMBER LAURIE:   Mr. Priestley,  
12          I thought you had a PhD.

13                   DR. PRIESTLEY:   I do.

14                   PRESIDING MEMBER LAURIE:   Then it's Dr.  
15          Priestley.

16                   DR. PRIESTLEY:   Thank you, but it's not  
17          something I insist on.

18                   (Laughter.)

19                   MR. HARRIS:   I know him as Tom --

20                   PRESIDING MEMBER LAURIE:   If you were a  
21          Commissioner at the Energy Commission --

22                   MR. HARRIS:   -- but I apologize.

23                   PRESIDING MEMBER LAURIE:   -- you would  
24          insist upon it.

25                   MR. HARRIS:   I stand corrected, I get a

1 little familiar because Tom's such a great guy,  
2 but he is Dr. Priestley.

3 HEARING OFFICER FAY: Okay, getting back  
4 to what we need to get through. I need to get an  
5 estimate from everybody on the amount of time they  
6 are going to need to cross-examine the panel on  
7 visual impacts.

8 PRESIDING MEMBER LAURIE: And not only  
9 cross-examine, Gary, we want an understanding of  
10 what direct testimony is going to consist of, and  
11 cross-examination of everything else tonight.

12 HEARING OFFICER FAY: Okay, well,  
13 there's only direct testimony coming from the  
14 staff. How long will that take?

15 MS. WILLIS: Our direct testimony?

16 HEARING OFFICER FAY: Um-hum.

17 MS. WILLIS: Probably about maybe ten  
18 minutes, a little -- basically the way we've been  
19 doing it, between 10 and 15 minutes. One of the  
20 things we did want to do was walk through each of  
21 the conditions that had proposed changes, and just  
22 make comments, brief comments on those. So that  
23 might take a few extra minutes.

24 And then probably --

25 HEARING OFFICER FAY: You mean as part

1 of your 15 minutes?

2 MS. WILLIS: As part of our 15 minutes.

3 HEARING OFFICER FAY: Okay.

4 MS. WILLIS: And then probably another  
5 15 or so minutes of cross.

6 HEARING OFFICER FAY: Okay. San Jose?

7 MS. DENT: Maybe 15 minutes of cross on  
8 Calpine's witnesses. And I will be glad to give a  
9 brief summary of what I'm trying to get at with  
10 each of the witnesses in advance if that will  
11 help.

12 And I don't think any cross for the CEC  
13 witnesses.

14 HEARING OFFICER FAY: I'm sorry, I  
15 couldn't hear you.

16 MS. DENT: I don't think any cross for  
17 the CEC witnesses.

18 HEARING OFFICER FAY: Okay. And Mr.  
19 Ajlouny?

20 MR. AJLOUNY: Twenty minutes for the  
21 applicant, and ten minutes for staff.

22 PRESIDING MEMBER LAURIE: And what's the  
23 nature of your cross-examination going to be?

24 MR. AJLOUNY: The areas like I mentioned  
25 before, of the -- I would say the word misleading

1           comments in testimony, bringing those out, and  
2           also the issue of compatibility of the plant, as  
3           far as visual and being compatible for that site  
4           from previous hearings. I thought this would be  
5           the time, one point to bring out about it not  
6           being compatible because of the visual.

7                         And a few other things, I mean, you  
8           know, I got a list -- I got 14 --

9                         HEARING OFFICER FAY: Okay, Mr. Scholz,  
10          how long?

11                        MR. SCHOLZ: About ten minutes.

12                        HEARING OFFICER FAY: And is Mr. Boyd  
13          still here? Okay, CARE, anybody else for CARE?

14                        MR. WADE: No, I don't think CARE's  
15          here. I'm Jeff Wade, an intervenor, and I didn't  
16          introduce myself earlier. I have about five  
17          minutes or less.

18                        CHAIRMAN KEESE: I'd echo what  
19          Commissioner Laurie said at the front, argument  
20          about what you like and don't like about visual  
21          should not be in the cross-examination.

22                        MR. AJLOUNY: No, I have -- I --

23                        CHAIRMAN KEESE: You make argument  
24          later.

25                        MR. AJLOUNY: Yeah, I'm not --

1                   CHAIRMAN KEESE:  Because some people are  
2                   going to like something and some people aren't  
3                   going to.

4                   MR. AJLOUNY:  Yeah, really I'm not going  
5                   to go there.  I'm going to go by specifics in the  
6                   testimony that I feel is misleading, I just want  
7                   to bring them out.

8                   PRESIDING MEMBER LAURIE:  And that's  
9                   fine, but as you do that just recall that staff is  
10                  already recommending that there be a finding of  
11                  unmitigated impacts.

12                  The applicant is offering testimony that  
13                  in fact it is mitigated.  And, you know, that's  
14                  differing views.

15                  And so as we get into those questions  
16                  I'm going to be asking what more is there really  
17                  to talk about once staff makes the argument that  
18                  it's unmitigated.  Because that's really the kind  
19                  of thing that we're interested in.

20                  MR. AJLOUNY:  And I understand, but I  
21                  feel that the applicant did a wonderful job on  
22                  perceiving that this is a beautiful plant.  And so  
23                  I want the opportunity to discredit some of the  
24                  witnesses.

25                  HEARING OFFICER FAY:  Well, you will be

1 given an opportunity to conduct some cross-  
2 examination. I'm not sure if it will be as much  
3 as --

4 PRESIDING MEMBER LAURIE: Staff is free  
5 to express their view that it's a beautiful plant,  
6 and you're free to disagree.

7 MR. AJLOUNY: You mean applicant?

8 PRESIDING MEMBER LAURIE: Yes, or staff,  
9 or whoever else.

10 HEARING OFFICER FAY: So, Ms. Willis.

11 MS. WILLIS: I'd like to start with Mr.  
12 Priestley.

13 CROSS-EXAMINATION

14 BY MS. WILLIS:

15 Q You stated in your testimony that 11 key  
16 observation points were analyzed, is that correct?

17 DR. PRIESTLEY: That's correct.

18 MS. WILLIS: And you and the staff agree  
19 that out of those 11 only one -- I mean that out  
20 of those 11 we agree that 10 do not pose a  
21 significant unmitigable impact, is that correct?

22 DR. PRIESTLEY: That is correct.

23 MS. WILLIS: Would it be fair to say  
24 that in your opinion that staff properly analyzed  
25 those ten key observation points for visual

1 impacts?

2 DR. PRIESTLEY: In my opinion we  
3 certainly reached the conclusion. Actually I  
4 didn't come here to present a kind of a line-by-  
5 line critique of their analysis of those  
6 viewpoints.

7 MS. WILLIS: Okay. In the earlier  
8 testimony that staff did object to on alternative  
9 visual impacts, and the photos that you showed, is  
10 it your opinion then that staff was correct in  
11 their analysis of those visual impacts?

12 DR. PRIESTLEY: I'm not quite sure that  
13 I'm following. I'm not quite sure what you're  
14 referring to.

15 MS. WILLIS: I'm referring to the photos  
16 of the alternative sites.

17 DR. PRIESTLEY: Okay, --

18 MS. WILLIS: That were used for  
19 illustrative purposes earlier.

20 DR. PRIESTLEY: Okay.

21 MS. WILLIS: Then in your opinion staff  
22 was correct in their analysis of those visual  
23 impacts for those alternative sites?

24 DR. PRIESTLEY: Not necessarily. What I  
25 was trying to document today is the conclusions

1           that staff reached about those sites.

2                       MS. WILLIS:  Was it the conclusions or  
3 was it the criteria used that you were referring  
4 to?

5                       DR. PRIESTLEY:  It was their conclusion.

6                       MS. WILLIS:  So your comments and  
7 testimony earlier that there was criteria that was  
8 being used that wasn't being applied to KOP1  
9 actually then has no reference to the alternative  
10 sites individual impacts that you discussed  
11 earlier in your testimony?

12                      DR. PRIESTLEY:  Again, I'm not quite  
13 following the question.

14                      MS. WILLIS:  You stated earlier that you  
15 relied on staff's -- that staff had established  
16 criteria and to illustrate that you referred to  
17 the alternative analysis for visual impacts.

18                      DR. PRIESTLEY:  I guess not necessarily;  
19 I guess those things aren't necessarily  
20 commensurate.  We certainly, in doing our  
21 evaluation of the impacts of the Metcalf facility,  
22 we applied the criteria that staff had developed  
23 and used, say, for example, in the Delta case, and  
24 that had laid out --

25                      MS. WILLIS:  I'm actually referring to

1 the alternative discussion that happened earlier  
2 tonight, not in the Delta case. In this  
3 particular proceedings.

4 You went through each of the figures on  
5 alternative sites 1, and you went through each of  
6 the sites, do you remember that testimony?

7 DR. PRIESTLEY: Yes, yes, I do. And I  
8 recall that I summarized what was the staff's  
9 conclusion about the potential impacts of a  
10 Metcalf-like project on those sites.

11 MS. WILLIS: And wasn't the purpose of  
12 your testimony to show that there was criteria  
13 that you had agreed with that staff had applied in  
14 other analyses?

15 DR. PRIESTLEY: I think the point of  
16 showing those photos was to indicate that, in  
17 fact, that staff may not be applying its own  
18 criteria in a very clear and consistent way, for  
19 one.

20 And the other, that in the context in  
21 which those things are -- which those criteria are  
22 applied, if applied the same way that staff  
23 applies them, clearly the impact on the views from  
24 KOP1 would have to be deemed to be less than  
25 significant.

1 MS. WILLIS: In your opinion was staff's  
2 application of its criteria clear and consistent  
3 for the 10 KOP that it found not significant, a  
4 mitigable impact?

5 DR. PRIESTLEY: To be able to fully  
6 answer your question again I would have to almost  
7 do like a line-by-line evaluation of those to give  
8 you a, you know, a very clear answer.

9 MS. WILLIS: Okay. Let me refer you to  
10 your written testimony. On page 5 you do refer to  
11 the Delta final staff assessment, and you talk  
12 about the precedent the Commission has established  
13 to determine significant visual impacts.

14 Are you aware that a final staff  
15 assessment is not a precedential decision?

16 DR. PRIESTLEY: It's my understanding  
17 that the conclusions of that FSA were reflected in  
18 the final opinion of the Commission.

19 MS. WILLIS: Okay, you also referred to  
20 the CEC Staff as decision rules, you said that  
21 earlier. I just want to make sure you understand  
22 that a final staff assessment is a staff document,  
23 not a Commission decision. Do you understand that  
24 distinction?

25 DR. PRIESTLEY: Yes.

1 MS. WILLIS: Okay.

2 PRESIDING MEMBER LAURIE: And do you  
3 understand that by rule all Commission decisions  
4 are not precedent unless the decision says it is  
5 precedent?

6 DR. PRIESTLEY: Well, I'm now aware.

7 PRESIDING MEMBER LAURIE: Thank you.

8 MS. WILLIS: Thank you. You stated  
9 earlier in your testimony that the CEQA provides  
10 little guidance in developing criteria for visual  
11 impacts, and you also, in your testimony, refer to  
12 the term scenic vista, used in appendix G of CEQA.  
13 Do you recall -- that's on page 5 of your  
14 testimony.

15 DR. PRIESTLEY: Okay, yeah, I see the  
16 reference.

17 MS. WILLIS: When you did your analysis  
18 of visual impacts, did you refer to any other  
19 portions of the CEQA guidelines under the  
20 aesthetics appendix G checklist?

21 DR. PRIESTLEY: Yes, I did.

22 MS. WILLIS: Do you mention that in your  
23 testimony anywhere?

24 DR. PRIESTLEY: This was mentioned in my  
25 AFC analysis.

1 MS. WILLIS: So it's not mentioned in  
2 your testimony?

3 MR. HARRIS: I don't want to object but  
4 I think we've got a communication problem. What  
5 do you mean by his testimony?

6 MS. WILLIS: The testimony that was  
7 filed as testimony.

8 MR. HARRIS: Because I think he was  
9 understanding his testimony to include the prior  
10 filings, which would include his AFC.

11 MS. WILLIS: Okay, I'm referring to the  
12 written testimony that was filed and served --

13 HEARING OFFICER FAY: But if there's a  
14 reference in that testimony to the appropriate  
15 section of the AFC, then that is part of his  
16 testimony.

17 DR. PRIESTLEY: There is indication here  
18 as we noted in our AFC analysis. I was under the  
19 assumption that in preparing my testimony I wanted  
20 to be reasonably brief, and that there wasn't a  
21 need for me to, you know, repeat everything that I  
22 had put into all of my previous filings, so --

23 MS. WILLIS: Let me just get to the  
24 point.

25 DR. PRIESTLEY: -- so correct me if I'm

1 wrong --

2 MS. WILLIS: No, that's fine, that's  
3 fine. We obviously don't have the volumes that go  
4 into three supplements and all of that in front of  
5 me.

6 I'm referring to the section where you  
7 refer to appendix G about the scenic vista?

8 DR. PRIESTLEY: Yes.

9 MS. WILLIS: And that the views on  
10 Blanchard Road don't fall under that category, I  
11 believe, is that your testimony?

12 DR. PRIESTLEY: Not under that category,  
13 that's right. It is not a scenic vista, but  
14 again, I am looking at some of the other scenic  
15 qualities, as well, and again, in my AFC I have  
16 laid out, you know, a set of criteria. In fact, I  
17 present a sort of a scale that provides kind of an  
18 indicator of what I mean when I'm talking about  
19 scenic quality.

20 So it definitely goes beyond some kind  
21 of yes, no, black-and-white kind of thing, is it a  
22 scenic vista or is it not. In fact, there is a  
23 scale that I applied --

24 MS. WILLIS: Okay, actually I wanted to  
25 get back to the CEQA guidelines. Did you review

1 guideline number C, it says would the project  
2 substantially degrade the existing visual  
3 character or quality of the site and its  
4 surroundings.

5 DR. PRIESTLEY: If I could, I'd like to  
6 refer to my AFC text.

7 Yeah, if you look in my AFC text  
8 supplement C it would be page 8.11-19, there's a  
9 section called impact evaluation criteria. And if  
10 you look to the next page, 8.11-20, there is a  
11 reference to the full set of the CEQA criteria  
12 that you are now mentioning, including the last  
13 one.

14 MS. WILLIS: But that analysis is not  
15 reflected in your testimony, is that correct?  
16 That we have in front of us, not the AFC part of  
17 it.

18 DR. PRIESTLEY: Again, if you look at  
19 the beginning of that paragraph there is a  
20 reference to the AFC, and you know, perhaps I  
21 haven't done enough of this to know, but again,  
22 you know, my assumption was that, well, golly,  
23 anything that I've already filed kind of  
24 represents the approach that I've taken, and that  
25 I don't need to, you know, repeat the whole thing

1 every time. I know that we are under some  
2 pressure to make these proceedings, you know, more  
3 efficient.

4 But if I should be doing this, please  
5 let me know.

6 MR. HARRIS: Counsel, I think you have  
7 to assume that that is part of his testimony.

8 MS. WILLIS: I guess my question is I  
9 don't see that analysis done -- you refer to the  
10 analysis as a scenic vista, and when you're  
11 disputing staff's testimony, but you don't  
12 consider part C, which -- or even reference that  
13 that part exists. And I just wanted to clarify  
14 with you if that was part of your testimony, not  
15 part of the voluminous documents that we've  
16 received over the last couple of years.

17 I'll move on.

18 MR. HARRIS: You said part C, Kerry?  
19 Part C of what?

20 MS. WILLIS: Of the CEQA guidelines. It  
21 was under number 1, aesthetics. There's actually  
22 three questions, and only one seems to be  
23 addressed in Mr. Priestley's testimony.

24 DR. PRIESTLEY: Well, only one is  
25 mentioned in my testimony, but again if you would

1 take a look again at my AFC section where I lay  
2 out my approach, the criteria that I'm using, I  
3 hope that it's -- I believe that it's all there.

4 And I've tried then to make a  
5 translation of those into the very specific  
6 approach I have taken. And I do apologize if I  
7 failed to provide, you know, a complete  
8 explanation of those things in this testimony.

9 MS. WILLIS: In your discussion -- this  
10 is probably more of a followup to Commissioner  
11 Laurie's question -- do you consider impacts to  
12 the areas -- I'm referring to the Blanchard Road  
13 area in the KOPl -- do you consider the impacts to  
14 those just who are outside of their homes, and not  
15 necessarily in their yards?

16 DR. PRIESTLEY: Yes, I do. Again, as I  
17 indicated a little bit earlier in my testimony,  
18 yeah, I think it's important when you're thinking  
19 about impacts on a residential area --

20 PRESIDING MEMBER LAURIE: Dr. Priestley,  
21 let me interrupt you. Ms. Willis, I think we went  
22 over this. And he uses sliding scales, and he  
23 uses a subjective standard based upon a number of  
24 factors, including time of use and location and  
25 all that. And I think we have that.

1 DR. PRIESTLEY: Thank you.

2 MS. WILLIS: On page 3 of your testimony  
3 you state that the existing PG&E/Metcalf  
4 substation located in Coyote Narrows immediately  
5 to the east of the site is a major element in the  
6 area's landscape.

7 Could you tell me exactly how far away  
8 from the project site is the Metcalf substation?

9 DR. PRIESTLEY: To be able to give you a  
10 very clear figure I'd want to pull out my topo  
11 sheet and measure it. I can --

12 MS. WILLIS: Is it approximately a half  
13 a mile?

14 DR. PRIESTLEY: In the order of a half a  
15 mile, I would say, probably a bit less, a bit less  
16 than a half a mile.

17 MR. RUBENSTEIN: Dr. Priestley, if I may  
18 help you --

19 DR. PRIESTLEY: Yes, --

20 MS. WILLIS: Isn't there other  
21 structures in between, such as a railroad and --

22 DR. PRIESTLEY: Yeah, there is quite a  
23 bit of -- yes, you're correct. In this end of the  
24 valley there is quite a concentration of  
25 significant infrastructure facilities. As you

1 mentioned, there's the railroad, there's Monterey  
2 Road, there is the former weigh station site.  
3 There's the very large Metcalf substation. In  
4 fact you can kind of see the footprint of it here.  
5 In fact, this is just the developed portions.  
6 There are parking lots and so on, paved areas,  
7 fenced areas that actually occupy a bigger  
8 envelope here.

9 In addition, there are commercial  
10 activities along --

11 MS. WILLIS: I'm actually just asking  
12 one question. This isn't a lecture, thank you.

13 DR. PRIESTLEY: I'm sorry.

14 MS. WILLIS: If you don't mind. And  
15 when I'm looking at this map and looking at the  
16 photos that were included, the different various  
17 KOPs, from how many of those is the substation  
18 visible?

19 DR. PRIESTLEY: Well, I think probably  
20 the most pertinent one to talk about right now is  
21 Blanchard Road, and --

22 MS. WILLIS: Actually, that wasn't my  
23 question. How many of the KOPs is the Metcalf  
24 substation visible from?

25 DR. PRIESTLEY: We'd probably have to go

1 over them, you know, I just couldn't give you the  
2 number off the top of my head. But we could do a  
3 little review.

4 Clearly, when you're here at KOP1 on  
5 Blanchard Road, --

6 PRESIDING MEMBER LAURIE: Hold on a  
7 second, Dr. Priestley. Why do we care?

8 MS. WILLIS: I would say, I guess the  
9 question is why is it a major element in the  
10 landscape if it's not visible from maybe only one  
11 KOP in the area.

12 PRESIDING MEMBER LAURIE: Okay, do you  
13 have any comment to that question?

14 DR. PRIESTLEY: I know a lot about this  
15 area and I'd certainly be happy to talk about.  
16 It's just kind of up to the sense of the meeting  
17 here whether we should devote the time to do it.  
18 But I think anyone who has spent any time down in  
19 that area would have seen the substation and would  
20 be aware that, yes, when you are traveling around  
21 up and down highway 101 and in the north end of  
22 the Coyote Valley you can't miss the fact that the  
23 substation is there.

24 PRESIDING MEMBER LAURIE: Thank you.

25 MS. WILLIS: Does CEQA specify that

1 views be analyzed from key observation points?

2 DR. PRIESTLEY: It is silent on that  
3 question.

4 MS. WILLIS: Are you familiar with  
5 visual assessment systems used by federal  
6 agencies?

7 DR. PRIESTLEY: Yes, I am.

8 MS. WILLIS: Do they all use KOPs?

9 DR. PRIESTLEY: Most of them use  
10 something like a KOP. They may not call them a  
11 KOP, but when you start looking at the methods  
12 most of them have as their heart an approach where  
13 you pick, you know, typical areas, like the Forest  
14 Service calls them visual control points, that are  
15 used to evaluate visual change. So it's very much  
16 a standard element of all federal systems, or I  
17 would say most federal systems.

18 MS. WILLIS: Do federal systems use  
19 other types of analyses such as from roads or  
20 trails or from other various areas?

21 DR. PRIESTLEY: Those are the kinds of  
22 things that are considered, but again if you're  
23 going to do your analysis you really need to pick  
24 a point, and then do an analysis of what  
25 specifically is going on from that point.

1                   And, you know, I have seen some  
2                   analyses, in fact I have done some, myself, for  
3                   example I worked on a case in Alaska where there  
4                   was a transmission line crossing a very scenic  
5                   fjord. And I did an analysis of the views from a  
6                   boat moving up the fjord.

7                   But in that case I picked a series of  
8                   control points and had a lot of very specific  
9                   analysis to back up my --

10                  MS. WILLIS: You've answered my  
11                  question, thank you.

12                  DR. PRIESTLEY: I'm sorry.

13                  MS. WILLIS: -- to move on.

14                  HEARING OFFICER FAY: And, Ms. Willis,  
15                  it's been about 18 minutes now. Can you wrap it  
16                  up in one or two more questions.

17                  MS. WILLIS: I would like to say they  
18                  did have two hours on direct, and we do have a few  
19                  questions.

20                  Yeah, and unfortunately his answers are  
21                  longer than my questions are.

22                  PRESIDING MEMBER LAURIE: I think the  
23                  point is that we understand where the differences  
24                  are. And it's a question of how much good  
25                  testimony is going to help me. The question --

1 MS. WILLIS: I understand.

2 PRESIDING MEMBER LAURIE: -- is in our  
3 hands.

4 MS. WILLIS: I understand. I just  
5 wanted to refer to the visual 9 condition.

6 DR. PRIESTLEY: Excuse me?

7 MS. WILLIS: Visual 9, and I don't know  
8 who might be available to answer that. It's for  
9 the panel.

10 PRESIDING MEMBER LAURIE: The proposed  
11 modifications?

12 MS. WILLIS: The condition, and then,  
13 yeah, and I just want to discuss the testimony  
14 regarding the modification. Actually Mr. Abreu  
15 might be the person that would be able to address  
16 this the most.

17 And I can just kind of move to our  
18 concerns. Maybe Mr. Abreu can answer, were you  
19 here for the testimony of Mr. Edens regarding land  
20 use?

21 MR. ABREU: Yes.

22 MS. WILLIS: And I went through the  
23 transcripts and the part that is concerning is  
24 that on page 205 of the January 31st transcript,  
25 Mr. Edens testified: The MEC site is at one of

1 the northern entrances to the North Coyote Valley  
2 and it should, per the general plan and/or the  
3 County master development plan, be developed with  
4 a large campus or corporate industrial use that  
5 would set the tone for the entire North Coyote  
6 Valley area, rather than with a power plant that  
7 would dominate the area, provide the image of a  
8 heavy industrial use."

9 Do you remember testimony to that? I  
10 mean you don't have to remember the exact words --

11 MR. ABREU: That sounds familiar.

12 MS. WILLIS: Then on page 206 it states:  
13 We note the MEC's inherent incompatibility with  
14 the planned uses." And they cite visual  
15 dissonance between the planned campus industrial  
16 development and he goes on.

17 My concern and my question is basically  
18 you're changing the condition or proposing  
19 condition change on page 24 to VIS9, wanting to  
20 emphasize the role of the San Jose planning  
21 department, and I guess my question is are you  
22 aware of the number of power plants the planning  
23 department has been involved in reviewing the  
24 design for?

25 MR. HARRIS: Kerry, I'm sorry, what

1 page?

2 MS. WILLIS: 24.

3 MR. HARRIS: This is of our direct  
4 testimony?

5 MS. WILLIS: Yep.

6 MR. HARRIS: Is there another number at  
7 the bottom? I've got B6 or something like that.

8 MR. ABREU: But I didn't get the  
9 question there, Kerry, I don't --

10 MS. WILLIS: The question is are you  
11 aware of how many other power plants the City of  
12 San Jose planning department has reviewed the  
13 design of?

14 MR. ABREU: No.

15 MS. WILLIS: Are there any other large  
16 power plants in the City of San Jose?

17 MR. ABREU: No.

18 MS. WILLIS: Okay, so it's a good  
19 possibility the answer could be maybe zero?

20 MR. ABREU: It's a good possibility.

21 MS. WILLIS: Okay. Are you aware of how  
22 many power plants the CEC Staff and compliance  
23 project managers for the Energy Commission have  
24 reviewed?

25 MR. ABREU: No.

1 MS. WILLIS: But you would suppose it  
2 would be more than that, is that correct?

3 MR. ABREU: Yes.

4 MS. WILLIS: Okay. Maybe you can answer  
5 then why you think that there should be basically  
6 an emphasis of the role of the City planning  
7 department in this design review?

8 MR. ABREU: Because the project is going  
9 to be, you know, in the City of San Jose, or at  
10 least mostly in the City of San Jose, depending on  
11 how this all works out. We want them to be  
12 involved, and to the extent we can do it,  
13 satisfied with the architectural treatment of the  
14 project. We want to include them as part of, you  
15 know, what we do in moving forward.

16 MS. WILLIS: Well, maybe you could  
17 answer then why the condition as written did not  
18 provide the City adequate review?

19 MR. ABREU: I don't understand --  
20 actually the condition is we proposed it. It did  
21 say in consultation with the City of San Jose  
22 planning department.

23 MS. WILLIS: Right, you added that in.  
24 I'm asking why the condition, as it was written,  
25 not the way you wrote it, the way we wrote it.

1                   MR. ABREU:   Okay.    Are you saying what  
2                   was wrong with the condition the way you wrote it?

3                   MS. WILLIS:   Why did you feel like you  
4                   need to add?

5                   MR. ABREU:   I think we added that  
6                   because we wanted to demonstrate to the City that  
7                   we want their involvement, that we're not trying  
8                   to just bypass them, that we are not going to  
9                   ignore them.   So it's really more, I think, of a  
10                  communication to the City that we do want to seek  
11                  their input.

12                  MS. WILLIS:   And you do not feel the  
13                  condition, as written, would seek the City's input  
14                  even though that was included?

15                  PRESIDING MEMBER LAURIE:   We've got  
16                  that, Ms. Willis.   We can read the conditions.

17                  (Pause.)

18                  MS. WILLIS:   Just a few questions on the  
19                  visual plumes.   Isn't it true that the current  
20                  proposed cooling tower design cannot meet staff's  
21                  proposed condition of certification VIS10?   Is  
22                  that correct?

23                  MR. DUNSTAN:   Well, in some years there  
24                  would be some hours in which compliance with the  
25                  condition would require us to shut down the plant.

1 And to that extent, adoption of the cooling tower  
2 design would be an unacceptable constraint on  
3 commercial operation, so that the --

4 MS. WILLIS: I mean other --

5 MR. DUNSTAN: -- doesn't work for us.

6 MS. WILLIS: I think we have already  
7 said that that wasn't part of the condition, the  
8 shutting down of the plant.

9 I'm just asking the design to meet the  
10 condition otherwise.

11 MR. DUNSTAN: Are you referring to the  
12 design point of 20 degrees Fahrenheit and 100  
13 percent relative humidity?

14 MS. WILLIS: No, I'm referring to the  
15 design that you've proposed.

16 MR. DUNSTAN: Please repeat the  
17 question.

18 MS. WILLIS: Okay, one more time. The  
19 current proposed cooling tower design, isn't it  
20 true that it cannot meet staff's proposed  
21 condition of certification as we wrote it?

22 PRESIDING MEMBER LAURIE: And which  
23 condition?

24 MS. WILLIS: VIS10.

25 MR. DUNSTAN: The latest version would

1           have us change the design point temperature and  
2           humidity.

3                       MS. WILLIS: I'm not talking about the  
4           latest, I'm talking about the actual condition as  
5           written. We haven't rewritten the condition.

6                       MR. DUNSTAN: Well, let me review the  
7           language of the original condition.

8                       MR. HARRIS: Ms. Willis, I'm not sure  
9           this witness has seen the language that I think  
10          you're referencing about you'd be willing to take  
11          the shutdown out? Can you reference your --

12                      MS. WILLIS: I believe it's the 30  
13          degree, 90 percent humidity.

14                      MR. HARRIS: No, the reference in your  
15          testimony to staff's willingness to take the  
16          shutdown condition out. Can you cite that so we  
17          can show him? I think that's the problem here.

18                      MS. WILLIS: Well, I don't think  
19          that's -- that's not really the question about the  
20          shutdown. That would be a result of not meeting  
21          it, not -- we're just asking about meeting it.

22                      MR. DUNSTAN: If I may, are you asking  
23          whether the tower we've proposed with the 30  
24          degree Fahrenheit, 90 percent relative humidity  
25          design point would comply with the VIS10 as it

1 appears in the FSA regardless of the shutdown  
2 requirement?

3 MS. WILLIS: Right.

4 MR. DUNSTAN: Our evaluation of the  
5 potential for formation of a visible plume,  
6 keeping in mind at some points this plume might be  
7 a few wisps of visible something, indicates that  
8 there's a high probability that in most years the  
9 design we've proposed could comply.

10 The basic problem with the condition  
11 relates to the specification of dimensions of  
12 plume for which there's no established measurement  
13 methodology. And the timekeeping aspect. We feel  
14 that this is simply -- it would be difficult, if  
15 not impossible, for the compliance project manager  
16 to administer.

17 MS. WILLIS: So is that a no?

18 MR. DUNSTAN: Please repeat the  
19 question.

20 MS. WILLIS: Never mind.

21 PRESIDING MEMBER LAURIE: Well, didn't  
22 you ask the question whether --

23 MR. DUNSTAN: Very well, my answer --

24 (Parties speaking simultaneously.)

25 MR. DUNSTAN: Fair enough, let me --

1                   PRESIDING MEMBER LAURIE:  -- does the  
2                   design of the project meet VIS10 as you read it  
3                   today.  And I think we have to know the answer to  
4                   that, because if the answer is no, then --

5                   MR. DUNSTAN:  You're correct.  I have an  
6                   answer for that, and the answer is I really don't  
7                   know.

8                   PRESIDING MEMBER LAURIE:  Okay.

9                   MS. WILLIS:  In your testimony do you  
10                  dispute the results of the psychometric modeling  
11                  analysis performed by staff using the San Jose  
12                  Airport and the San Martin Airport meteorological  
13                  data?

14                 MR. RUBENSTEIN:  We do not have the  
15                 details of that analysis and we were not able to  
16                 duplicate its results.  When we performed a  
17                 parallel analysis we found that in the case of the  
18                 San Jose data we predicted more hours of a visible  
19                 plume.  And when we analyzed the facility using  
20                 the San Martin data, we predicted fewer hours.  I  
21                 cannot explain the discrepancy between our  
22                 analysis and staff's.

23                 MS. WILLIS:  The last question I had was  
24                 regarding also visual condition 10.  Could you  
25                 please state how and if you're -- you may not be

1 prepared to do this, but how you plan to monitor  
2 visual plumes.

3 MR. DUNSTAN: Our plan at this point is  
4 to rely on a correlation provided to us by the  
5 tower manufacturer, which is known as a physical  
6 plume curve, which predicts the formation of some  
7 form of plume for a given design point, and  
8 various ambient conditions.

9 The plant will be equipped with  
10 meteorological monitoring equipment which will be  
11 input to the plant's central computer, and we  
12 would use a predictive correlation to drive the  
13 devices that actually activate the plume abatement  
14 systems.

15 I would expect that in the first cool  
16 weather season of operation the operator would be  
17 very interested in seeing whether any sort of  
18 visible plume occurs when the abatement feature  
19 are, in fact, in operation.

20 So I think the human eye will be the  
21 calibration device during the initial winter of  
22 operation of the plant. And if we find there to  
23 be a problem we would go back to the supplier of  
24 the tower under warranty provisions and require  
25 that he correct it such that it met the predicted

1 performance.

2 HEARING OFFICER FAY: Ms. Willis, you  
3 told us 15 minutes; it's been over half an hour  
4 now. One more question.

5 MS. WILLIS: No more questions.

6 HEARING OFFICER FAY: Thank you. All  
7 right, San Jose.

8 MS. DENT: I said I'd give a quick  
9 statement of where my questions are going to begin  
10 with.

11 HEARING OFFICER FAY: Sure.

12 MS. DENT: So I'll do that, I think,  
13 with each witness that I think the questions are  
14 directed to.

15 I think I'll start with the architecture  
16 testimony, since that was what we took first, and  
17 I really only have a couple of areas of inquiry  
18 with the architecture testimony.

19 CROSS-EXAMINATION

20 BY MS. DENT:

21 Q One is for Mr. Abreu, I think, and that  
22 is to run through again, just so that I understand  
23 it, an explanation of how changes in the  
24 architecture, what kind of changes would require  
25 remodeling of the air quality testimony.

1 I understood it about the staff; I  
2 didn't quite understand it about the placement of  
3 the physical parts of the plant on the site,  
4 whether moving it horizontally or vertically on  
5 the site would require air remodel.

6 HEARING OFFICER FAY: Let's just go to  
7 that. Between -- probably Mr. Rubenstein.

8 MR. RUBENSTEIN: Yeah, I will answer  
9 that. Any changes in the horizontal dimensions,  
10 meaning moving any of the equipment around on the  
11 site by more than a de minimis level, and by that  
12 I mean probably a foot or two, would result in --  
13 a foot or two from left to right or front to  
14 back --

15 MS. DENT: So if I'm looking at your  
16 figure VIS1.2, if you move any of the equipment  
17 between the creek and Monterey Road, that's moving  
18 it left and right, is that what you mean by left  
19 and right? Or do you mean Blanchard Road to the  
20 creek?

21 MR. RUBENSTEIN: Either way. North or  
22 south, east or west, if you move any of the plant  
23 equipment by more than a foot or two, it would  
24 trigger the need for us to redo the air quality  
25 modeling analysis.

1                   MS. DENT: So the layout of this plant  
2                   on the site in terms of your air quality modeling  
3                   is fixed? There's no ability to modify, for  
4                   example, the setback of the plant from the  
5                   riparian corridor habitat by more than a foot or  
6                   two, by moving it onto a part of the site that is  
7                   wider and more vacant?

8                   MR. RUBENSTEIN: It's certainly possible  
9                   to move it, but your original question was could  
10                  you move it without triggering the need to redo  
11                  the modeling analysis, and the answer is no.

12                 MS. DENT: That answers that question,  
13                 thank you. The other architectural question I  
14                 have really goes to the examples that we were  
15                 shown of the architecture for other facilities,  
16                 and I think that the other facilities, the  
17                 examples we were shown were for what appear to me  
18                 to be much smaller facilities in terms of the  
19                 area, square footage, the mass of the building and  
20                 that sort of thing. Except, perhaps, for the  
21                 facility in Denmark. That looked like it was a  
22                 big power plant to me.

23                 So if I could ask you to just address  
24                 that for a moment, the mass of this facility,  
25                 height, the size of the layout, the site that's

1 occupied by the facility.

2 MR. STOCKS: I think that you're right,  
3 actually, I think the power station in Denmark is  
4 of a comparable size, but also the power station  
5 that we actually noted in New Jersey is smaller,  
6 but it isn't that much smaller.

7 It is subjective, of course, because we  
8 don't really know just how big these installations  
9 are, but I think your perception is correct.

10 MS. DENT: Now, I'm not sure I know  
11 which was one was New Jersey. I remember John F  
12 Kennedy Airport, that's a --

13 MR. STOCKS: New Jersey is the one on  
14 the top right-hand corner, which is here. That's  
15 New Jersey.

16 MS. DENT: And now that facility, the  
17 surrounding area that it is located in, is that  
18 facility located in an urban area?

19 MR. STOCKS: That's actually in the  
20 University playing fields area, so it is slightly  
21 built up, it isn't an urban area.

22 MS. DENT: And are you aware of any  
23 other facilities of this size of Metcalf, the mass  
24 of Metcalf, that you worked on in urban  
25 industrial -- in campus industrial urban areas?

1                   MR. STOCKS: Well, I, personally, have  
2 actually worked on very large industrial design,  
3 and those would be in Paris. It wasn't a power  
4 plant there, it was actually a car manufacturing  
5 facility. That was actually much larger than this  
6 facility here, so it's --

7                   MS. DENT: But no power plants?

8                   MR. STOCKS: No, no power plants of this  
9 size, no.

10                  MS. DENT: Okay, that does it for  
11 architecture. Now I'm going to -- just a couple  
12 of questions on the plume issues. And I'm sorry  
13 if the -- again, I wasn't prepared today for  
14 the -- because I misunderstood your notice. I'll  
15 try to keep it short.

16                  HEARING OFFICER FAY: And keep in mind,  
17 regarding exhibit 97 on the plume, you're accorded  
18 the same opportunity as staff, you can follow up  
19 later.

20                  MS. DENT: These are way more basic  
21 questions than that.

22                  HEARING OFFICER FAY: Okay.

23                  MS. DENT: If I understand the testimony  
24 with all of the technology that is being proposed  
25 by the applicant there's an acknowledgement that

1 under some weather conditions less than 30 degrees  
2 and higher humidity than 90 percent the plume will  
3 be visible, and there's some debate about when  
4 those weather conditions occur.

5 But those weather conditions do occur  
6 sometimes during the year in Coyote Valley, am I  
7 understanding that correctly?

8 MR. RUBENSTEIN: That's not quite  
9 correct. What our testimony is, is that based on  
10 a year's worth of data collected at the IBM site,  
11 it's our best judgment that there would be no  
12 periods in which a plume would be visible from  
13 either the abated cooling tower or from the abated  
14 heat recovery steam generators.

15 We recognize that there is variability  
16 in the weather from year to year. We recognize  
17 that the IBM site is not exactly at the project  
18 site. And there is that uncertainty, and as we've  
19 said in our testimony there is the potential for a  
20 plume to form.

21 We think that potential is greatest at  
22 night when you would not be able to see the plume.  
23 And we think that that potential is greatest  
24 during daylight hours under conditions when there  
25 would either be fog forming or rain.

1 MS. DENT: Now that plume would be  
2 visible from all of these KOPs, I think you  
3 referenced them, would it not? If there were a  
4 plume -- I'm trying to understand. You  
5 acknowledge that it occurs under some weather  
6 conditions. Those weather conditions may or may  
7 not exist in Coyote Valley. We don't have any --  
8 apparently we don't have any meteorological data  
9 for the specific site.

10 MR. RUBENSTEIN: We have temperature  
11 data from the PG&E substation at Metcalf.

12 MS. DENT: That's about a half a mile  
13 away.

14 MR. RUBENSTEIN: That's about as close  
15 as you can get, and I daresay that the temperature  
16 pattern at the Metcalf substation is going to be  
17 identical to the temperature pattern at the  
18 project site.

19 MS. DENT: And you don't have humidity  
20 data for that?

21 MR. RUBENSTEIN: That's right, so I  
22 can't do a full prediction. But by comparing the  
23 temperature data at the substation with the data  
24 at the IBM site and at San Jose and at San Martin,  
25 I conclude that the project site is best

1 represented by the San Jose and IBM data. Between  
2 that set of extremes it's going to be closer to  
3 the San Jose and IBM data.

4 That indicates to me, based on our  
5 analysis, that at the times when there is a  
6 potential for a plume to form, it is most always  
7 going to be under conditions when visibility in  
8 the Coyote Valley is limited anyway.

9 MS. DENT: I understand that.

10 MR. RUBENSTEIN: And then to get to your  
11 specific question about which KOPs, I can't draw  
12 any quantitative conclusions about which KOPs you  
13 might be able to see a plume from. But I can say  
14 with great certainty that the further you are from  
15 the site in any direction the less likely you're  
16 going to be to see a plume if there's a plume to  
17 see at all.

18 MS. DENT: And I think there was some,  
19 there sounded like there was some dispute about  
20 the length, or height, I think height would be a  
21 better way to put it, of the plume when it is  
22 visible.

23 Did you have some estimate of that,  
24 yourself? Let's say under -- I understood your  
25 testimony that there would be -- it would be, you

1           could see through it more easily if the  
2           temperature were close to 30 degrees. And the  
3           lower the temperature drops the more dense the  
4           plume is going to be appear to be.

5                        But that doesn't impact, I would think,  
6           the height of the plume. So I'm just trying to  
7           get a picture of how high this plume is so that we  
8           can understand how far away you would see it from.

9                        MR. RUBENSTEIN: The height of the plume  
10          in data response 90, and this is from the cooling  
11          tower, we estimated at being an average of 68  
12          meters, so roughly 200, 210 feet during those  
13          periods of time when the plume might be visible.

14                       MS. DENT: So that would be 210 feet  
15          above the top of the stack?

16                       MR. RUBENSTEIN: And that was the old  
17          design. Not the top of the stack, this is the  
18          cooling tower, so it's the top of the cooling  
19          tower.

20                       MS. DENT: And what is the height of the  
21          top of that cooling tower?

22                       MR. RUBENSTEIN: I'm sorry, I misspoke.  
23          It's above ground level.

24                       MS. DENT: So it would be 220 feet above  
25          ground level?

1                   MR. RUBENSTEIN: Right, for the old  
2 design of the tower.

3                   MS. DENT: And now for your current  
4 design?

5                   MR. RUBENSTEIN: I don't know that I  
6 have that number in front of me. I do know that  
7 we predicted no visible plumes, and so we would  
8 not have recorded any measured heights.

9                   MS. DENT: Well, again, let's assume  
10 that the weather conditions exist. Does the  
11 redesign of your stack affect the height of the  
12 plume?

13                   MR. RUBENSTEIN: Yes, because it will,  
14 by reducing the tendency to form plumes at all, it  
15 will reduce both the frequency of the formation of  
16 the plume, and if a plume forms it will reduce the  
17 size of the plume.

18                   MS. DENT: Okay, I have just one more  
19 question about the plume, and it's really a  
20 question, technical question. I mean is there  
21 something out there, I heard some mention of  
22 perhaps other technology that is used in colder  
23 wet climates for plume abatement. Was I  
24 misunderstanding that testimony, or is this all,  
25 this is the most you can do?

1                   MR. DUNSTAN: I think you were referring  
2                   to my comment that this type of tower is the most  
3                   frequently used in areas of extremely low  
4                   temperatures.

5                   In general, temperatures as low as, for  
6                   example, places in northern Europe or even  
7                   northeastern United States, when the temperature  
8                   is down in the single digits, the humidity is  
9                   generally very low.

10                  So it's not comparable to a tower  
11                  designed for 20 degrees Fahrenheit and 100 percent  
12                  relative humidity as staff had proposed.

13                  That's a situation in which air simply  
14                  cannot hold any more water, and any water added to  
15                  the atmosphere will instantly condense.

16                  MS. DENT: Well, I guess my question is,  
17                  is there technology that does cover those  
18                  conditions? I mean those conditions do exist in  
19                  some parts of the world, certainly, and probably  
20                  in some parts of the United States where you have  
21                  both high humidity and cold weather.

22                  So is there some technology, some plume  
23                  abatement technique that exists that covers that?

24                  MR. DUNSTAN: Not that I'm aware of.

25                  MS. DENT: So there's no other --

1 nothing more that you can do to abate the  
2 formation of a plume, other than this  
3 particular --

4 MR. DUNSTAN: The only way to guarantee  
5 that no water vapor plume will form from the heat  
6 rejection system of a power plant is to use an air  
7 cooled condenser.

8 MS. DENT: All right, that finishes the  
9 plume abatement. Now I want to go to the visual  
10 just real quickly.

11 And looking again at VIS1.2, and I think  
12 this is for the first witness that testified, the  
13 KOP number 1 that is in so much contention,  
14 located down on Blanchard Road, --

15 DR. PRIESTLEY: Yes.

16 MS. DENT: -- the view that you see from  
17 KOP1, in fact the view that you see from KOP1  
18 would be seen if you stood anywhere in the vacant  
19 field that is behind these residences from what  
20 you show as the property line clear to the lot  
21 line of the residences, is that entire open area,  
22 you would see that same view that you see from  
23 KOP1, would you not?

24 DR. PRIESTLEY: Yes and no. One of the  
25 things that you will note actually is that this

1 kind of thin line that runs kind of parallel to  
2 the UP Railroad tracks, and it comes down to about  
3 the point where you see KOP1, --

4 MS. DENT: Um-hum.

5 DR. PRIESTLEY: -- that is the boundary  
6 line of the project site. And that area is there  
7 to provide for an access road. And is a part of  
8 the landscape plan, I think we have a copy of it  
9 right here.

10 In fact that area is going to be very  
11 heavily landscaped. We're following the  
12 guidelines of the North Coyote Valley --

13 MS. DENT: Let me --

14 DR. PRIESTLEY: -- industrial campus  
15 plan, and --

16 MS. DENT: Let me ask you this, let me  
17 just exclude you from that long narrow strip,  
18 okay?

19 DR. PRIESTLEY: Sorry.

20 MS. DENT: I'm talking about the open  
21 field behind the residences. If you stood in the  
22 middle of that open field you'd be looking  
23 directly at Metcalf Energy Center would you not?  
24 You'd have a much more unobstructed view of it  
25 than you would from KOP1?

1 DR. PRIESTLEY: Oh, that's quite true.  
2 If you were standing in that vacant agricultural  
3 field behind the Passantino house, yeah, it would  
4 be unobstructed.

5 MS. DENT: Okay. Now, let me ask you  
6 about the property line. Do you understand the  
7 line that's drawn on this map, on this figure, I  
8 should say, the solid black line, it's kind of  
9 thin but it's solid, do you understand that to be  
10 an existing property line or a proposed property  
11 line?

12 MR. ABREU: That's a proposed property  
13 line. We have an option on that land we haven't  
14 exercised.

15 MS. DENT: The existing property line,  
16 though, for the entire property that the Metcalf  
17 Energy Center is a part of, the existing property  
18 line actually runs behind, the current existing  
19 property line runs behind the back of the  
20 residences. Where is it between the back of the  
21 residences and your proposed property line?

22 MR. ABREU: I don't understand the  
23 question.

24 MS. DENT: You can look at this 1.2 and  
25 if you could indicate where the existing property

1 line is for -- the Metcalf Energy Center is on an  
2 existing parcel of property. Where does the  
3 current property line for that parcel end right  
4 now?

5 MR. ABREU: Well, we have two pieces of  
6 property. It's going to be the Metcalf Energy  
7 Center. The northernmost you see a tree, if you  
8 look at this VIS1.2, you see a tree line, a row of  
9 trees running up and down the page about two-  
10 thirds of the way through the heat recovery steam  
11 generators.

12 To the left of that is one piece of  
13 property right now. And then to the right of that  
14 is the other piece of property.

15 MS. DENT: And how far does the current  
16 property line extend toward Blanchard Road?

17 MR. ABREU: Do you want to run that  
18 question by me again? Maybe it's getting a little  
19 late.

20 CHAIRMAN KEESE: Does it extend to where  
21 we see the trees running down?

22 MR. ABREU: This is Blanchard Road over  
23 here.

24 MS. DENT: Correct.

25 MR. ABREU: This is the property line.

1 And so I'm not sure --

2 MS. DENT: That's your proposed property  
3 line.

4 MR. ABREU: No, no, that's the actual  
5 property line today. I wasn't sure what your  
6 question was.

7 MS. DENT: So the current property line  
8 is that row of trees right there?

9 MR. ABREU: For one piece of the  
10 property.

11 MS. DENT: For one piece. For the other  
12 piece of property where you do have facilities, at  
13 least on VIS1 you show facilities --

14 MR. ABREU: Right.

15 MS. DENT: -- on the other side of that  
16 row of trees for quite a ways, where does that  
17 property currently go to?

18 Okay, so if you're looking at what is  
19 adjacent to the current property that the project  
20 sits on, what is adjacent to the current property  
21 is not only these residences, it's everything down  
22 here on the other side of Blanchard Road, is it  
23 not?

24 The current parcel of property that  
25 you're proposing to use, as you just described it,

1 extends all the way down to Blanchard Road?

2 MR. ABREU: The access road does extend  
3 all the way down to Blanchard Road.

4 MS. DENT: I'm not asking you about your  
5 proposed property line, I'm asking you about the  
6 current property line on the property.

7 If you were looking to protect  
8 properties that are adjacent to the property  
9 instead of looking to protect existing uses, you  
10 would be looking at properties south of Blanchard  
11 Road, is that correct?

12 MR. HARRIS: I'm going to object on the  
13 basis there's too many properties in your  
14 question. I'm not sure which property --

15 HEARING OFFICER FAY: We can't  
16 understand your question.

17 MS. DENT: All right.

18 PRESIDING MEMBER LAURIE: Is the point  
19 you're getting to that they have property  
20 available that they can do additional landscaping?  
21 Is that your point?

22 MS. DENT: My point is that there's  
23 quite a bit of property available where this  
24 project could be moved quite a lot.

25 PRESIDING MEMBER LAURIE: Okay, you're

1 talking about moving the property, you're not  
2 talking about additional landscaping?

3 MS. DENT: There could be additional  
4 landscaping. The project could be moved further  
5 back from the creek. There's quite a bit of  
6 additional property for flexibility in design of  
7 this project.

8 PRESIDING MEMBER LAURIE: Okay. Ms.  
9 Dent, I think there's evidence in the record that  
10 allows you to make that argument.

11 MS. DENT: But further I want to get at  
12 the LORS compliance issue. And I'll refer to the  
13 page --

14 HEARING OFFICER FAY: Can you do it  
15 briefly, you told us 15 minutes and it's been 15  
16 minutes.

17 MS. DENT: Well, you know, it takes  
18 people, it seems like, a long time to answer  
19 questions. I think I've only taken about five  
20 minutes. No, I think I've taken less than 15  
21 minutes, it might have taken them longer. I can't  
22 estimate the amount of time it's going to take  
23 them to answer.

24 On page 13 of your testimony at the  
25 bottom of the page, you take issue with the

1 staff's assessment of LORS compliance in terms of  
2 impact of the project on adjacent properties.

3 DR. PRIESTLEY: That's correct.

4 MS. DENT: The question that I'm asking  
5 is do you not understand that the City's policies,  
6 which are land use policies, are not designed  
7 necessarily to protect existing uses, but are also  
8 designed to protect planned and future uses?

9 DR. PRIESTLEY: I can accept that, yes.

10 MS. DENT: And would you not agree that  
11 the visual impact of this project on planned and  
12 future uses, such as campus industrial for the  
13 property immediately between the property line and  
14 Blanchard Road, is at least as significant a  
15 visual impact as staff assessed impact from the  
16 KOP1?

17 MR. HARRIS: I'm going to object to the  
18 question as unintelligible, and ask you to  
19 rephrase it.

20 MS. DENT: Okay. Let's look at the  
21 standpoint of planned and future uses, campus  
22 industrial for the property immediately south of  
23 the proposed property line. It's on the existing  
24 property, but immediately south of the proposed  
25 property line. Between the proposed property line

1 and Blanchard Road.

2 You're standing there, you're in a  
3 campus industrial development.

4 MR. HARRIS: Are you asking him to  
5 assume the --

6 MS. DENT: Yes.

7 MR. HARRIS: -- Cisco development?

8 MS. DENT: I'm asking him to assume the  
9 planned campus industrial land uses.

10 MR. HARRIS: I'm sorry, I want to make  
11 sure we're clear. Are you asking about the  
12 planned Cisco project or other potential --

13 MS. DENT: No, just campus industrial  
14 generically, the land use plan that the City has  
15 for the area.

16 MR. HARRIS: So, closer than the Cisco  
17 project?

18 MS. DENT: Closer than the Cisco  
19 project. Campus industrial on that property right  
20 there.

21 Wouldn't you agree that the impact,  
22 visual impact of the project on campus industrial  
23 immediately south of the project is, in fact, much  
24 much greater than the visual impact even at KOP1?

25 DR. PRIESTLEY: I guess my response has

1 to begin with an explanation of the evaluation of  
2 this project we've had a number of workshops and  
3 we've kind of gone round and round.

4 The extent to which it is appropriate  
5 for us, under CEQA, to be evaluating things,  
6 viewpoints, elements of the environment that are  
7 not there yet, that are not part of the existing  
8 environment.

9 And, in fact, in some of the earlier  
10 analyses CEC Staff had done evaluations of the  
11 impacts of views of this plant from proposed  
12 industrial campus buildings. But the CEC made a  
13 decision that it would be inappropriate to do  
14 that. And those evaluations were dropped from  
15 staff's evaluation.

16 HEARING OFFICER FAY: Ms. Dent, I just  
17 heard him answer in terms of CEQA. The question I  
18 heard you ask was in terms of LORS, --

19 MS. DENT: Yes, --

20 HEARING OFFICER FAY: -- City LORS.  
21 Okay, you're talking at cross-purposes.

22 MS. DENT: Yeah, I was going to say my  
23 question directly relates to the fact that we are  
24 making a LORS determination here. And you've made  
25 a LORS determination. And the City LORS that

1           you're referring to are specifically as you  
2           acknowledged, designed to protect future and  
3           planned uses.

4                        So, did you not, in doing your LORS  
5           analysis, even look at future and planned uses?  
6           Or did you, as it appears to be, look only at  
7           existing uses, whether these particular residents  
8           would see the plant and what they would see?

9                        MR. HARRIS: I'm going to object and ask  
10          that you ask a single question as opposed to a  
11          compound question, because you lost me.

12                       MS. DENT: Well, we can really take a  
13          long time on --

14                       MR. HARRIS: Well, you asked two  
15          different questions, and I didn't know which one  
16          you wanted him to answer.

17                       HEARING OFFICER FAY: Mr. Priestley,  
18          apparently the City has LORS to protect future  
19          uses based on their planning.

20                       Did you take that into account?

21                       DR. PRIESTLEY: Yes, I did, and this is  
22          documented in some of our earlier data responses.

23                       HEARING OFFICER FAY: And  
24          notwithstanding the plan for this area south of  
25          Blanchard Road, you still believe the project

1 complies with LORS designed to protect the view of  
2 future -- from future uses?

3 DR. PRIESTLEY: Yes, I do. And I should  
4 explain just very briefly, I mean it's  
5 incontrovertible that when you are in this area  
6 behind the Passantino property, of course, you  
7 would be able to see this facility.

8 But whether it would be incompatible  
9 with an industrial campus project is another  
10 question. And I believe that it, in fact, would  
11 be compatible, would not have a negative impact on  
12 campus industrial use in that area.

13 HEARING OFFICER FAY: And therefore  
14 would comply with the LORS that address that?

15 DR. PRIESTLEY: Yes.

16 HEARING OFFICER FAY: Okay, that's his  
17 answer.

18 MS. DENT: Okay, I've got just, I think  
19 hopefully, a couple more questions on that same  
20 issue.

21 HEARING OFFICER FAY: Okay, please  
22 hurry.

23 MS. DENT: I want to turn to the  
24 alternate site views also, and I want to ask  
25 directly again, you testified that staff has found

1 that there is no significant adverse visual impact  
2 of the project on these alternative sites.

3 DR. PRIESTLEY: That is true.

4 MS. DENT: Do you agree with that  
5 analysis or disagree with that analysis? Yes or  
6 no. I mean one or the other. Quick question.

7 DR. PRIESTLEY: I'll say that at least  
8 in the one case I do not agree with staff.

9 MS. DENT: Okay, and so that's for one  
10 of these alternates you think there would be a  
11 significant visual impact? And which one is that?

12 (Laughter.)

13 DR. PRIESTLEY: Can anyone guess? Alt  
14 4.

15 MS. DENT: So you think there's a  
16 significant visual impact in all four of these?

17 MR. HARRIS: No, no, no.

18 MS. DENT: Alternate 4?

19 DR. PRIESTLEY: Yeah, I'm sorry.

20 MS. DENT: Now this is a view, a  
21 simulated view, would be about how far away from  
22 this proposed facility?

23 DR. PRIESTLEY: Well, I guess you'd have  
24 to say that you're right next to it. I'm standing  
25 in the middle of the boulevard here, and as you

1           can see it comes right up to the edge of the  
2           street.

3                       MS. DENT: Well, in fact, if you had the  
4           standard City setback for campus industrial on the  
5           property immediately adjacent to the proposed  
6           Metcalf Energy Center wouldn't this be exactly  
7           what you'd see?

8                       DR. PRIESTLEY: No. As you know, the  
9           guidelines for campus industrial areas have very  
10          very demanding requirements, not only for setback,  
11          but for landscaping, so what you would see would  
12          be within the context of the landscaping within  
13          the setback area, not only on the project site,  
14          but also on the setbacks required on the campus  
15          industrial site.

16                      So the context -- a) the context would  
17          be different. And here you're getting an impact  
18          because of a blockage of a very significant view  
19          that has been recognized in the scenic highway  
20          designation for this area.

21                      So there are some specific reasons why  
22          this would be a significant impact. And a  
23          generating facility on the Metcalf site would not  
24          be.

25                      HEARING OFFICER FAY: Last question, Ms.

1 Dent.

2 MS. DENT: And so again, applying this  
3 same approach to the Metcalf Energy Center site,  
4 if you're standing where the campus industrial is,  
5 adjacent to the Metcalf Energy Center site, you're  
6 going to not see most of Tulare Hill, you're going  
7 to not see the Coyote Creek riparian corridor  
8 that's next to the site, you're going to see a  
9 power plant in front of you just like you do in  
10 alternative 4?

11 DR. PRIESTLEY: Well, actually the  
12 viewing distance would be different than what you  
13 are seeing here, because right in here you're  
14 right next to the fenceline of the project.

15 And, again, because of the setback  
16 requirements, the landscape requirements required  
17 on both parcels, from your most frequent viewing  
18 area, say like in the building, around the  
19 building, you're going to be several hundred feet  
20 from the power plant site. So you would be seeing  
21 it, you know, within a somewhat larger landscape  
22 context.

23 And, again, you would be seeing it in  
24 the context of all of the landscaping that will be  
25 required on both sites.

1 MS. DENT: I'm going to do one more  
2 question. I'm sorry.

3 PRESIDING MEMBER LAURIE: Wait, wait,  
4 wait, wait, first of all, if we say one more  
5 question you get one more question. Why don't you  
6 ask if you can have one more question.

7 MS. DENT: May I have one more question.

8 PRESIDING MEMBER LAURIE: Yes, you may.  
9 I just want to make sure that we all understand  
10 the rules.

11 MS. DENT: Oh, yeah, I understand the  
12 rules very well, thank you.

13 PRESIDING MEMBER LAURIE: When you're in  
14 a courtroom and a judge says you have one more  
15 question, do you ask your witness two questions?

16 MS. DENT: I may.

17 PRESIDING MEMBER LAURIE: Well, not in  
18 my courtroom you wouldn't.

19 MS. DENT: And I do --

20 PRESIDING MEMBER LAURIE: Just ask your  
21 question.

22 MS. DENT: -- I will --

23 PRESIDING MEMBER LAURIE: Ask your  
24 question --

25 MS. DENT: -- be -- I will be --

1                   PRESIDING MEMBER LAURIE: Ask your  
2 question, Ms. Dent.

3                   MS. DENT: I will be glad to follow your  
4 rules if I'm told the rules in advance.

5                   PRESIDING MEMBER LAURIE: Well, Mr. Fay  
6 said you had one more question.

7                   MS. DENT: I think that being told the  
8 rules the minute before the next question is a bit  
9 unusual.

10                  PRESIDING MEMBER LAURIE: We also --

11                  MS. DENT: I'm going to drop it, that's  
12 okay.

13                  HEARING OFFICER FAY: Good.

14                  MS. DENT: I'm going to drop it --

15                  PRESIDING MEMBER LAURIE: If you feel  
16 your question --

17                  MS. DENT: No, no, no, no --

18                  PRESIDING MEMBER LAURIE: -- is  
19 important to your case, ask your question.

20                  MS. DENT: Okay, I will. Thank you.  
21 Looking at the site diagram up there behind you,  
22 and the setback of the facilities from the  
23 property line, the facilities immediately to the  
24 north of the property line are set back exactly  
25 100 feet, is that correct?

1                   MR. ABREU: I think we went over this in  
2 the land use section, Mollie --

3                   MS. DENT: Right.

4                   MR. ABREU: -- Ms. Dent. What we have,  
5 you had the condition that the CEC put into land  
6 use that at the time that the other land gets  
7 converted to campus industrial we have an option  
8 with the owners, the Passantinos, to add more  
9 landscaping to the south of the power plant, so we  
10 would fully comply with the 100-foot setback.

11                   Initially --

12                   MS. DENT: I under --

13                   MR. ABREU: -- because the Passantinos  
14 didn't want us to use all their land, we have a  
15 less of a setback.

16                   MS. DENT: The setback is going to be  
17 100 feet, though. My question for the earlier  
18 witness about the large setbacks and about the  
19 extensive landscaping is that there are going to  
20 be -- there are planned to be buildings, I believe  
21 it would be 200 feet away, because there would be  
22 100-foot setback on each side, so you would  
23 literally be 200 feet from that facility.

24                   DR. PRIESTLEY: From the closest  
25 building, and you have to remember, perhaps when

1           you get a chance to look at some of the  
2           simulations you'll see that it was a very  
3           intentional part of the design to put the lowest  
4           buildings here at the southern end of the  
5           property. This is kind of like an administration  
6           warehouse building; it's no more than about one  
7           story high, so it's rather low. And particularly  
8           with the landscaping in front of it, it's  
9           something that you will be able to look over.

10                        So it was quite intentional to put this,  
11           to put the parking lot on the south side to  
12           provide more distance between any potential  
13           viewers down here and the larger elements of the  
14           facility.

15                        MS. DENT: Thank you. I have no further  
16           questions.

17                        PRESIDING MEMBER LAURIE: Five-minute  
18           break, folks.

19                        (Brief recess.)

20                        PRESIDING MEMBER LAURIE: -- examine the  
21           applicant's witnesses.

22                        MR. AJLOUNY: I'll start my timer now,  
23           and I'd appreciate -- stop my timer -- got it?  
24           Start it up. I'd appreciate yes or no answers  
25           where possible, since I only have 20 minutes and I

1 have quite a few questions.

2 CROSS-EXAMINATION

3 BY MR. AJLOUNY:

4 Q My first set of questions is for Dr.  
5 Priestley.

6 Doctor, if you can go to your page 3 of  
7 your testimony, last paragraph, first sentence.  
8 It states: IBM Research and Development facility  
9 is visible prominent feature on the north side of  
10 Bailey Avenue west of Santa Teresa Boulevard."

11 Are you there?

12 DR. PRIESTLEY: Oh, yes, I'm here.

13 What's the question?

14 MR. AJLOUNY: Okay, the question is if  
15 you're at Metcalf site, are you able to see the  
16 IBM Research Center?

17 DR. PRIESTLEY: No.

18 MR. AJLOUNY: Okay, and that statement  
19 in the first sentence that I just read, are you  
20 leading to the fact that you can see it from the  
21 Metcalf station?

22 DR. PRIESTLEY: You're referring to the  
23 term vicinity of the project. I'm talking about,  
24 here I'm talking not just what you can exactly see  
25 from the project, but, you know, the larger area,

1 subregion within which the project is set.

2 MR. AJLOUNY: Isn't it true that that  
3 facility is backed up behind some hills and it's  
4 very hard to see even maybe from the Cisco site?

5 DR. PRIESTLEY: You're talking about the  
6 IBM facility?

7 MR. AJLOUNY: Yes, the one you're  
8 talking about in the first paragraph three.

9 DR. PRIESTLEY: Sure. It's up there,  
10 you know, the upper end of Bailey Road. You can  
11 certainly see it when you're going by, but when  
12 you're like down on Monterey --

13 MR. AJLOUNY: And I'm talking about at  
14 the Cisco site. And I don't mean to be rude  
15 cutting you off, I'm just trying to get as much  
16 done in 20 minutes.

17 DR. PRIESTLEY: Yeah, probably from the  
18 Cisco site, well, maybe the southern end of the  
19 Cisco site you may be able to see something, but  
20 not from most of the site.

21 MR. AJLOUNY: So would you say maybe  
22 visual prominent feature maybe is a little  
23 stretching it?

24 DR. PRIESTLEY: No, again it has to do  
25 with how I'm using the term project vicinity. If

1           you're talking about the general project vicinity  
2           and things that are up in kind of the northern end  
3           of the Coyote Valley, that's certainly within that  
4           kind of subregion.

5                       MR. AJLOUNY:  Okay.  When I read that I  
6           took it as when you're at Metcalf or in the  
7           general area you can see IBM.

8                       DR. PRIESTLEY:  No, I'm sorry if that  
9           came across.

10                      MR. AJLOUNY:  Okay, great.  Page 8, item  
11           4, third paragraph.

12                      DR. PRIESTLEY:  Okay.

13                      MR. AJLOUNY:  It's a big paragraph but I  
14           don't want to take time to read it all.  But  
15           there's a sentence I'm concerned about, and that  
16           would be the one that's about seven lines down,  
17           are you there yet?

18                      DR. PRIESTLEY:  The fourth paragraph  
19           under --

20                      MR. AJLOUNY:  Third paragraph under item  
21           4.

22                      DR. PRIESTLEY:  Oh, the third paragraph?

23                      MR. AJLOUNY:  It starts:  In any event.

24                      DR. PRIESTLEY:  Okay.

25                      MR. AJLOUNY:  Okay?

1 DR. PRIESTLEY: Yes.

2 MR. AJLOUNY: The sentence is about  
3 seven lines down, the sentence: FSA concluded  
4 that the project would not have an adverse effect  
5 on ten of them."

6 Okay, am I led to believe that not  
7 having adverse effect is equal to less than  
8 significant effect?

9 DR. PRIESTLEY: Yes.

10 MR. AJLOUNY: So less than significant  
11 is not having an adverse effect? I guess, I'm  
12 just wondering if you're playing with words there.  
13 There's ten items less than significant?

14 DR. PRIESTLEY: These are -- what I  
15 intended to say, and I'm sorry it's not more  
16 clear, my intent was to say that both the staff  
17 and I agree that at least ten of the sites there  
18 definitely would not be an impact. I believe that  
19 there are 11 that there wouldn't be an impact.  
20 But staff found that on 10 of the KOPs there would  
21 not be a significant impact.

22 And I think, based on the discussion we  
23 just had, you know, perhaps to be very very  
24 precise I should correct this to say that staff  
25 has found that there would not be a significant

1 impact on eight out of ten.

2 MR. AJLOUNY: Okay, great, that's the  
3 point I wanted to make. On page 21, cumulative  
4 impacts, your testimony.

5 DR. PRIESTLEY: Okay.

6 MR. AJLOUNY: Last paragraph, last  
7 sentence, in the middle of the sentence it states:  
8 It is important to take into account the fact that  
9 as part of the project over 100 acres of visible  
10 prominent hillside lands will be set aside as  
11 permanent open space contributing substantially to  
12 the preservation of the valley's hillside  
13 backdrop."

14 DR. PRIESTLEY: I see that.

15 MR. AJLOUNY: Okay. What do you mean by  
16 visually prominent hillside lands?

17 DR. PRIESTLEY: The south side of Tulare  
18 Hill is an obvious visually prominent element of  
19 the landscape of the northern Coyote Valley.

20 MR. AJLOUNY: Okay, so basically in  
21 layman's terms it's a big hill in front of  
22 everybody?

23 DR. PRIESTLEY: Yeah, exactly.

24 MR. AJLOUNY: Okay, great. So that big  
25 hill in front of everybody with a big huge

1 building, do you think it would visually impact  
2 that hillside?

3 DR. PRIESTLEY: I can't give you a yes  
4 precisely, my --

5 MR. AJLOUNY: All right, that's okay --

6 DR. PRIESTLEY: -- my answer is no  
7 because I disagree with your contention of big  
8 huge building in front of the entire hillside.  
9 Because well, we can have more discussion of this,  
10 but for the sake of brevity I'll stop there.

11 MR. AJLOUNY: Great. Okay, I think this  
12 was mentioned but maybe I'll clarify it. On page  
13 3 of your testimony, fourth paragraph, I think  
14 staff got this one, but I'm -- let's see, page 3,  
15 fourth paragraph, you talk about adjacent to the  
16 Metcalf substation.

17 Was that touched on? Am I dreaming or  
18 was that talked about, the word adjacent? Oh,  
19 that's right, because I think you used the word  
20 half mile, or someone said something about a half  
21 mile that that substation might be from the  
22 proposed site? Is that --

23 DR. PRIESTLEY: Can I have the question,  
24 please.

25 HEARING OFFICER FAY: Just ask the

1 question.

2 MR. AJLOUNY: Okay, yeah. Is it true  
3 that you said that the substation is about a half  
4 mile away?

5 DR. PRIESTLEY: It may be closer. I  
6 said perhaps something under a half a mile. We'd  
7 have to measure it on the map to --

8 MR. AJLOUNY: Okay, no problem.

9 DR. PRIESTLEY: -- tell you for sure.

10 MR. AJLOUNY: And I guess I want to key  
11 in on the word adjacent.

12 DR. PRIESTLEY: Oh, excuse me, can you  
13 show me where it says adjacent?

14 MR. AJLOUNY: Yeah, on page 3, fourth  
15 paragraph down. You know what, I misspoke. It  
16 says immediately to the east of the site. And I  
17 guess I put my notes down as adjacent, so I  
18 apologize.

19 The first sentence, fourth paragraph,  
20 the existing PG&E Metcalf substation located in  
21 the Coyote Narrows immediately to the east of the  
22 site. True?

23 DR. PRIESTLEY: Yes, it is true.

24 MR. AJLOUNY: So, almost a half mile,  
25 maybe just less than a half a mile, with the

1 railroad and all that, you would consider  
2 immediately to the east of the site?

3 DR. PRIESTLEY: In that context I would  
4 say the use of the term immediately is  
5 appropriate.

6 MR. AJLOUNY: Okay, could you use the  
7 word immediately to the south --

8 PRESIDING MEMBER LAURIE: We got it,  
9 your point.

10 MR. AJLOUNY: All right, fine, that's  
11 good, you're making it easy for me, thank you.

12 PRESIDING MEMBER LAURIE: Your point is  
13 made.

14 MR. AJLOUNY: The abatement, is it  
15 achievable to do a 20/100? Twenty degrees, 100  
16 humidity?

17 MR. DUNSTAN: We've been advised by one  
18 of the world's leading manufacturers of hybrid  
19 cooling towers that they are very skeptical about  
20 being able to meet that design condition.

21 MR. AJLOUNY: Okay, so they're  
22 skeptical. So your answer is it is not  
23 achievable?

24 MR. DUNSTAN: GEA Thermal Dynamics has  
25 told us they don't think they can do it.

1                   MR. AJLOUNY: Did you ask them about  
2                   95/25, or 25/95?

3                   MR. DUNSTAN: No.

4                   MR. AJLOUNY: Okay. So it isn't a  
5                   matter of spending more money to achieve it, it's  
6                   just that it's not feasible?

7                   MR. DUNSTAN: GEA Thermal Dynamics has  
8                   told us that they're very skeptical whether they  
9                   can do it. They've never done it, and that  
10                  indicates to us that their confidence in success  
11                  is very low.

12                  MR. AJLOUNY: So one of the possible  
13                  ways to achieve a non-plume power plant would be  
14                  dry cooling?

15                  MR. DUNSTAN: That's correct.

16                  MR. AJLOUNY: All right, thank you.  
17                  Okay, alternate 4 on our famous non, what I call  
18                  the surprise pictures here. I don't know what  
19                  else to call it.

20                  On your alternate 4, Dr. Priestley, I  
21                  just wondered, do you know how big that site is?

22                  DR. PRIESTLEY: You know, I would have  
23                  to look in my alternatives analysis to be able to  
24                  tell you exactly what --

25                  MR. AJLOUNY: Okay, no problem.

1 DR. PRIESTLEY: -- does anybody know?

2 MR. AJLOUNY: Do you have any reason why  
3 you moved it it looks like maybe 10 or 20 feet  
4 from the street, and why you didn't push it back  
5 in your example here?

6 DR. PRIESTLEY: You'd have to take a  
7 look at the site layout, but because of the  
8 configuration of the site that was really the only  
9 way to do it.

10 MR. AJLOUNY: So your testimony is to  
11 say that this power plant has to be this close to  
12 the street to be sitting on that site?

13 DR. PRIESTLEY: If you're going to  
14 squeeze everything on that site, you're going to  
15 have to do something like this.

16 MR. AJLOUNY: Okay, well, I mean I saw  
17 in your proposed Metcalf, which is really such a  
18 superior site that the one-story building was  
19 closer to the home, wouldn't you think that you  
20 might put the one-story building closer to the  
21 street?

22 DR. PRIESTLEY: Well, you know, one of  
23 the down sides of this site is that it is bounded  
24 on three sides by streets. So, you know, yeah,  
25 sure the lower buildings were put on another side,

1 where there are also sensitive viewers, but, you  
2 know, you only have one of those low buildings to  
3 work with, and you can't do that on every side.

4 MR. AJLOUNY: Okay. We talked about  
5 temperature and humidity. If humidity was higher  
6 does that mean -- and I'm referencing the 39, so  
7 if humidity was like 95 percent, does that mean  
8 maybe the temperature would be 32 when you start  
9 seeing plumes? Is that how that works?

10 MR. DUNSTAN: No. In fact, if the dry  
11 bulb temperature is 30 degrees -- let's back up.  
12 I believe we're talking about the proposed tower  
13 that's designed for coincident conditions of 30  
14 degrees dry bulb and 90 percent relative humidity.

15 If ambient dry bulb temperature were 30  
16 degrees and the relative humidity were 95 degrees  
17 there is a potential for some water vapor to  
18 condense above the tower.

19 MR. AJLOUNY: I guess my question is the  
20 higher the humidity would that make the  
21 temperature breaking point of plumes beginning to  
22 be seen at a higher temperature?

23 MR. DUNSTAN: Yes.

24 MR. AJLOUNY: Okay. So, in reference to  
25 my last question, if the humidity was at 95

1 percent, we might see plumes above 30 degrees?  
2 Yes or no, please.

3 MR. DUNSTAN: Yes.

4 MR. AJLOUNY: Okay. Are you aware of  
5 the temperature being around 25 or so degrees in  
6 the valley this past week with the rain and the  
7 coldness?

8 MR. DUNSTAN: I haven't seen the weather  
9 reports, but I'm not surprised, --

10 MR. AJLOUNY: No problem.

11 DR. PRIESTLEY: -- it was raining.

12 MR. AJLOUNY: I'm aware of it, I live  
13 there. I just didn't know if you were.

14 Are you aware, Dr. Priestley, Metcalf  
15 Road and Monterey Highway is basically the  
16 entrance for the Malik family who's been there for  
17 90-plus years?

18 DR. PRIESTLEY: Okay, you're talking  
19 about Metcalf Road --

20 MR. AJLOUNY: Yeah, there's a family  
21 called Malik, their last name, they have their own  
22 road, they have homes.

23 DR. PRIESTLEY: Oh, Malik Road you are  
24 referring --

25 MR. AJLOUNY: Yeah, Malik Road, there's

1 a Malik family there. The only --

2 DR. PRIESTLEY: That's the road that is  
3 more or less the frontage road to highway 101, it  
4 kind of parallels --

5 MR. AJLOUNY: Yes, yes.

6 DR. PRIESTLEY: -- it takes off from --

7 MR. AJLOUNY: On the other side.

8 DR. PRIESTLEY: It takes off from  
9 Metcalf Road --

10 MR. AJLOUNY: Yes.

11 DR. PRIESTLEY: -- and it parallels  
12 highway 101 and essentially functions as a --

13 MR. AJLOUNY: Yeah, you don't have to go  
14 through a long description, please.

15 DR. PRIESTLEY: Okay. You're aware of  
16 it?

17 DR. PRIESTLEY: I just wanted to make  
18 sure I --

19 MR. AJLOUNY: No, you got it, buddy.

20 DR. PRIESTLEY: -- talking about the  
21 same thing.

22 MR. AJLOUNY: You go north on Monterey  
23 and you'd have to make a right turn on Metcalf and  
24 then a right turn onto Malik. So essentially for  
25 the Malik family to get to their home, Monterey

1 Highway is like their driveway, almost. That's  
2 the only way to get to their home is go north on  
3 Monterey Highway, right on Metcalf and up to their  
4 home if they're coming anywhere from the south, is  
5 that true? To the best of your knowledge? Did  
6 you take -- or --

7 DR. PRIESTLEY: Well, I guess all I can  
8 say is I'm not acquainted with this family.

9 MR. AJLOUNY: Well, are you acquainted  
10 with the homes and did you take into account that  
11 basically Monterey Highway is their driveway in a  
12 sense? And I'm going by earlier testimony that,  
13 you know, getting to a home, or experiencing the  
14 wonderful surroundings of your own home is part of  
15 the perception --

16 DR. PRIESTLEY: Well, certainly the  
17 Monterey Highway is used by, you know, many many  
18 people. I mean there's, you know, some  
19 substantial traffic volume along Monterey Highway,  
20 so --

21 MR. AJLOUNY: I'm talking about the  
22 specific impact of the family that I know  
23 personally has testified in front of the  
24 Commission of being concerned about this power  
25 plant.

1                   Maybe someone can help him? Are you  
2 guys familiar with it?

3                   HEARING OFFICER FAY: Are you addressing  
4 the visual impact to these people of passing the  
5 power plant on Monterey Road?

6                   MR. AJLOUNY: Every time they want to  
7 get to their home.

8                   HEARING OFFICER FAY: I think we can  
9 just stipulate that anybody that approaches San  
10 Jose from the south would --

11                  MR. AJLOUNY: Yeah.

12                  HEARING OFFICER FAY: -- the same --

13                  MR. AJLOUNY: But it's a difference if I  
14 had to go home every day, I have to see a huge  
15 plant. It's a little different than driving to  
16 work. And I just wanted to point that out. If I  
17 made my point I'll keep on going --

18                  MR. HARRIS: On Metcalf Road, though?  
19 The entrance to Malik Road is Metcalf Road?

20                  MR. AJLOUNY: Yes, oh, yeah, it's the  
21 only way.

22                  MR. HARRIS: So it's on the other side  
23 of the substation?

24                  MR. AJLOUNY: No. Okay, I heard Ken,  
25 this is for you, buddy, I heard that you have, you

1 mentioned something about a hint in your testimony  
2 just a few minutes ago about County land, this  
3 could be difference because something about part  
4 of it's on County land, is that true?

5 MR. ABREU: Yes.

6 MR. AJLOUNY: Okay, are you aware of the  
7 10,000 square foot size in County LORS that  
8 basically, and I'm saying LORS, but there's a law,  
9 because I happen to have a church, trying to build  
10 a church on the County land. You can't go over  
11 10,000 square feet. Are you aware of that in the  
12 County?

13 MR. ABREU: No.

14 MR. AJLOUNY: Oh, okay. Well, then I'll  
15 just leave that alone. Hopefully you can find  
16 out.

17 Okay, we talked about the Passantino  
18 family and someone mentioned Mark Passantino, and  
19 I think it was Dr. Priestley, about the great  
20 conversation he had with Mark Passantino, correct,  
21 Dr. Priestley?

22 DR. PRIESTLEY: Yeah, I mentioned --

23 MR. AJLOUNY: Okay, that's good.

24 DR. PRIESTLEY: -- that I --

25 MR. AJLOUNY: Did he happen to mention

1 to you about the millions of dollars he's  
2 receiving for the ten acres of land?

3 DR. PRIESTLEY: We did not talk about  
4 that subject.

5 MR. AJLOUNY: Okay. Could that possibly  
6 be why he's --

7 MR. HARRIS: Objection, argumentative.

8 MR. AJLOUNY: No, I'm just asking, could  
9 that possibly influence his feelings about --

10 HEARING OFFICER FAY: That's  
11 speculation. I don't think Mr. Priestley's  
12 qualified as a psychologist.

13 MR. AJLOUNY: Well, it's not  
14 argumentative. It might be speculation.

15 (Laughter.)

16 HEARING OFFICER FAY: Save your time.

17 MR. AJLOUNY: All right, buddy. Well, I  
18 mean, you know, it's real stuff. Okay.

19 One of my last questions. Ken, I think  
20 you talked about picture 35. Hurry, guys, give me  
21 this thing before they --

22 MR. ABREU: This one?

23 MR. AJLOUNY: Okay, picture 35. Can you  
24 help me out like Paul Harvey usually does and give  
25 me the rest of the story?

1                   You mentioned there was three scenarios  
2                   that you presented to the City. I think picture  
3                   35 of this diagram, are you familiar with this?

4                   MR. ABREU: Yes.

5                   MR. AJLOUNY: You mentioned this was the  
6                   second visual that the City had an opportunity to  
7                   look at, true?

8                   MR. ABREU: No.

9                   MR. AJLOUNY: Okay, which one was it?  
10                  The first one? First, second or third? You  
11                  mentioned there was three.

12                  MR. ABREU: Yeah, if you look at the  
13                  first three in that set, one, two, three. Those  
14                  were the first three architectural treatments we  
15                  had.

16                  MR. AJLOUNY: Okay. Was this one of the  
17                  ones you presented to them?

18                  MR. ABREU: What do you mean by  
19                  presented to them?

20                  MR. AJLOUNY: Okay, earlier testimony I  
21                  heard two specific things that I'm concerned  
22                  about. You mentioned this building and you  
23                  mentioned that the City didn't want anything  
24                  higher, bigger mass higher than the footage  
25                  allowed, and something else -- something else you

1 mentioned in earlier testimony why you didn't want  
2 this -- why they didn't want this.

3 MR. ABREU: There were a number of  
4 reasons why we moved away from that architecture.

5 MR. AJLOUNY: But in your testimony  
6 earlier today you mentioned that the City had two  
7 reasons why they didn't want this, is that  
8 correct?

9 MR. ABREU: Yes.

10 MR. AJLOUNY: Okay, isn't it really the  
11 fact that in earlier testimony you can't have  
12 something like this because of the downdraft or  
13 whatever the words are of the wind? Isn't that  
14 what I --

15 MR. ABREU: It makes it more difficult,  
16 but, you know, you can still do it.

17 MR. AJLOUNY: Well, in earlier testimony  
18 who stated that? One of the --

19 MR. ABREU: I stated it.

20 MR. AJLOUNY: Okay, you stated that it  
21 wasn't possible, and I think you even talked to  
22 Commissioner Laurie that this was not a  
23 possibility because of the -- you couldn't achieve  
24 the air issues with it being big and round on the  
25 top?

1                   MR. RUBENSTEIN: I think with respect to  
2                   that specific design the answer was that it could  
3                   be done, and in fact, that was proposed. But it  
4                   did make the air analysis more complicated.

5                   MR. AJLOUNY: Okay, so --

6                   MR. RUBENSTEIN: It was a difference --  
7                   I think what you may be thinking of is when Paul  
8                   Stocks was talking and I was talking about the  
9                   interaction with air quality modeling, and the  
10                  question was raised about whether you could  
11                  completely hide the stacks. I had said that no,  
12                  you couldn't, because there were these air quality  
13                  constraints.

14                  If you notice in that design there's a  
15                  tapering towards the top, which is what enabled us  
16                  to at least show compliance.

17                  MR. AJLOUNY: Okay, I guess I remember  
18                  through the workshops and working with the City,  
19                  basically what I heard here today, that two  
20                  reasons the City wanted it lowered, and that this  
21                  wouldn't be possible. But, yet, in fact it was an  
22                  issue of hard to meet air quality issues.

23                  And I guess I'm just bringing this out  
24                  to see if you're willing to admit it here on your  
25                  testimony, that's all.

1 MR. HARRIS: Was there a question?

2 MR. AJLOUNY: Yeah, well, I heard it  
3 earlier, so I'm not going to beat a dead horse  
4 here.

5 Okay, are you familiar with the Morgan  
6 Hill five doctors on the meteorology report that  
7 just came out? Anyone?

8 MR. RUBENSTEIN: I don't know the  
9 doctors, but I'm familiar with that report, yes.

10 MR. AJLOUNY: Will that report affect  
11 anything on visual plume or --

12 MR. RUBENSTEIN: No.

13 MR. AJLOUNY: -- anything you can think  
14 of that would significantly change this project or  
15 be a concern to the community?

16 MR. RUBENSTEIN: No.

17 MR. AJLOUNY: Okay. One last question,  
18 and this will be for Dr. Priestley. You mentioned  
19 you visited the site and visited our buddy, the  
20 Passantino family.

21 DR. PRIESTLEY: Yes.

22 MR. AJLOUNY: Did you go onto the actual  
23 site, itself?

24 DR. PRIESTLEY: The Passantino property?

25 MR. AJLOUNY: No, on the actual site of

1 where the plant -- the County part of the land, I  
2 guess the hill? The land that Calpine already  
3 purchased. Did you go on that part of the site?

4 DR. PRIESTLEY: Well, I've made many  
5 visits to the site, and I've been on the portion  
6 of the --

7 MR. AJLOUNY: Okay, great.

8 DR. PRIESTLEY: -- property where the --

9 MR. AJLOUNY: The answer's yes.

10 DR. PRIESTLEY: -- power plant is going  
11 to go and --

12 MR. AJLOUNY: The answer's yes.

13 DR. PRIESTLEY: Okay.

14 MR. AJLOUNY: So did you observe anybody  
15 living on that site?

16 DR. PRIESTLEY: I observed people on the  
17 site, but I was in no position to determine  
18 whether people were living there.

19 MR. AJLOUNY: And would you say you  
20 observed people and dogs and families, or  
21 whatever, every time you went on that site, or  
22 just about every time?

23 DR. PRIESTLEY: Let's say I made a lot  
24 of trips to the site, I was there for specific,  
25 you know, kind of research and study purposes, and

1 I tried to stay clear of people, chickens, and  
2 especially dogs.

3 MR. AJLOUNY: Okay.

4 (Laughter.)

5 MR. AJLOUNY: So that's kind, because  
6 that would be the thing to do if people living  
7 there, you don't want to disturb them.

8 That's all my questioning.

9 HEARING OFFICER FAY: Okay, thank you.  
10 And I want to compliment you for sticking to your  
11 estimate.

12 MR. AJLOUNY: Yeah, I know, I went up by  
13 two minutes.

14 HEARING OFFICER FAY: Give you that.  
15 All right. Let's see. And we don't have the City  
16 of Morgan Hill today here, I just want to confirm  
17 that. All right, I see no indication.

18 CARE, Mr. Boyd is not here. Mr.  
19 Williams? No. Mr. Garbett.

20 MR. GARBETT: William Garbett.

21 HEARING OFFICER FAY: Garbett.

22 MR. GARBETT: Speaking on behalf of the  
23 public. I have a few questions. And my questions  
24 can either, in some way, shape or form, be for the  
25 staff or for the applicant. I think since the

1 applicant is here right now, I'll address a few  
2 questions to them and then finish up with the  
3 staff. The questions are about the same either  
4 way.

5 HEARING OFFICER FAY: If I may, just  
6 keep in mind they can only --

7 MR. GARBETT: I know.

8 HEARING OFFICER FAY: -- answer  
9 questions about their testimony; they can't answer  
10 about the staff's testimony.

11 CROSS-EXAMINATION

12 BY MR. GARBETT:

13 Q Earlier we had a whiteboard, some  
14 photographs that were presented here. And on  
15 these photographs, there was four of them on the  
16 alternatives, it showed industrial sites, as  
17 opposed to the final photograph which is KOP1,  
18 which is not zoned industrial.

19 Do you believe there would be a  
20 difference in the staff response siting an  
21 industrial location against a nonindustrial  
22 location? Mr. Stocks.

23 DR. PRIESTLEY: Yeah, -- oh, -- yeah, I  
24 think there could be, depending upon the viewing  
25 context. You know, for example, figure 4 is an

1 industrial area, but it's one that's right next --  
2 it's zoned industrial at this moment. Anyway, in  
3 fact, the City of Fremont is thinking of changing  
4 its designation and use.

5 But in any case, although it's zoned  
6 industrial there is still some sensitivity in that  
7 it is immediately adjacent to a scenic highway,  
8 and at the moment offers a view towards a very  
9 important visual landmark.

10 MR. GARBETT: With the visual landmark  
11 of the proposed Metcalf site that would be in the  
12 Fremont area, then only be a block from a  
13 cogeneration power plant from another industrial  
14 site within less than one city block?

15 DR. PRIESTLEY: I have to admit I'm a  
16 little confused by the question. You're  
17 suggesting that in Fremont right now there's  
18 already a cogeneration plant in the vicinity of  
19 that project?

20 MR. GARBETT: A block away from your  
21 proposed site.

22 DR. PRIESTLEY: I'm not familiar with  
23 it. In my many visits to that area it wasn't, you  
24 know, immediately obvious to me.

25 MR. GARBETT: Yes. In these photographs

1 the first four alternative sites show both a  
2 before view and an after view with a site like the  
3 Metcalf building imposed, but of the first four  
4 photographs there are no high lines or wires  
5 visible in the photographs emanating from the  
6 power generation site.

7 In the last one, KOPl, there are  
8 significant wires showing, both before and after.

9 DR. PRIESTLEY: Well, in KOPl, of  
10 course, you know that the transmission lines that  
11 you see are transmission lines that already exist.  
12 Actually one of the advantages of a project on  
13 this site is that the transmission link over to  
14 that transmission line is just going to be on the  
15 order of a couple hundred feet.

16 MR. GARBETT: Mr. Stocks, you testified  
17 earlier, is it not true, that you said that one of  
18 the most significant visual aspects was the  
19 transmission towers running along the hill?

20 MR. STOCKS: That is, to me it's my  
21 personal perception that's the case.

22 MR. GARBETT: From a visual aspect if  
23 you had a site that was located near a scenic  
24 highway, the Sanchez Freeway, or another highway,  
25 Monterey Road is traditionally known as the route

1 of the El Camino Real, these are what you might  
2 call significant scenic highways, the brief view  
3 as motorists go down those roadways, or the  
4 railroad tracks, would be very brief. And they  
5 wouldn't get that long a timeframe of looking at  
6 the Metcalf site, is that true?

7 MR. STOCKS: I don't know the site, sir,  
8 that's the --

9 MR. GARBETT: You don't know.

10 DR. PRIESTLEY: I think that's a  
11 question that I could answer. It would be  
12 relatively brief, yes.

13 MR. GARBETT: Isn't it true that if the  
14 lines emanating from the Metcalf plant, which come  
15 from around the area of the smoke stacks, go up  
16 the hill, would you say that is a very visual  
17 significant connection where people would not only  
18 focus on the plant, but focus on the hill and the  
19 interconnection, and be a significant visual  
20 detriment, Mr. Stocks?

21 MR. STOCKS: We're talking about the  
22 Metcalf site now?

23 MR. GARBETT: Yes, the Metcalf site.

24 MR. STOCKS: Okay, I don't think  
25 there's -- one's eye is not led down transmission

1 lines down to a building or a built form, I don't  
2 think. That's my own personal opinion.

3 Actually they become apparent because  
4 they're actually silhouetted against the sky.  
5 That's the reason why transmission towers are  
6 noticeable.

7 MR. GARBETT: But if very briefly you  
8 were focused on a power plant or an industrial  
9 site of some kind, and you were focused on that,  
10 and as you departed, your parting view was lines  
11 going up to the next visual aspect, which is the  
12 transmission lines, don't you believe that would  
13 be a psychological factor where one would tend to  
14 follow the view or the connection point which  
15 would be those transmission lines going up the  
16 hill?

17 MR. STOCKS: No, I don't think that at  
18 all, actually. I must admit I don't think there's  
19 going to be a psychological connection that you  
20 would, in fact, make. It isn't something that I  
21 don't think the human mind works that way.

22 MR. GARBETT: Okay. Well, being trained  
23 in psychology, I have a different viewpoint --

24 MR. STOCKS: Okay.

25 MR. GARBETT: -- ergonomics.

1 HEARING OFFICER FAY: You have the  
2 answer.

3 MR. GARBETT: Yes, I have the answer.

4 With the site they have talked about the  
5 fact that you may need part of the stacks  
6 extending above whatever structure or hidden  
7 aesthetic treatment that you give the building.

8 If these stacks were not these straight  
9 stacks going up, but a venturi type stack used to  
10 go and increase the exhaust speed of the stacks,  
11 which might even shorten the necessity for tall  
12 stacks, could that venturi effect be an enhancing  
13 visual quality of the design that you would  
14 perhaps try to make for design treatment?

15 MR. STOCKS: I think that there are, you  
16 can't actually isolate individual elements like  
17 that and say it's going to be an improvement, or  
18 the opposite, in fact. You have to actually look  
19 at the whole thing in its context.

20 So, perhaps the answer is yes, but it  
21 depends upon how the rest of the building is  
22 actually treated. There's nowhere specific  
23 focusing in on that one aspect of a design of the  
24 stacks and saying that that's going to make it  
25 better.

1                   MR. GARBETT: Okay, but it could be a  
2                   treatment that could work to enhance the design in  
3                   some respect, perhaps?

4                   MR. STOCKS: I think that there's all  
5                   sorts of possibilities, that has to be accepted as  
6                   a possibility of being one way of changing the  
7                   look, and perhaps changing it for the better. We  
8                   don't know whether it's possible from the  
9                   engineering point of view, that's the --

10                  MR. GARBETT: Would a possible  
11                  shortening of the stacks make your job easier?

12                  MR. STOCKS: Yes, I'd have to say that  
13                  that would, in fact, make the job easier of  
14                  actually making the building into something that  
15                  is a beautiful thing, which is what we're after.

16                  MR. GARBETT: If you could eliminate any  
17                  plumes from the building would that make it more  
18                  appealing?

19                  MR. STOCKS: Well, that's a subjective  
20                  question. And I have to answer it subjectively  
21                  and say that it actually would not worry me. I've  
22                  seen plumes from stacks all around the world, and  
23                  it doesn't actually have the same effect upon me  
24                  that perhaps it has on other people.

25                  MR. GARBETT: Okay. Let's pose a

1           hypothetical to Mr. Abreu. If the City cannot, by  
2           their present standards for the South Bay Water  
3           District, extend water to you, and you had to find  
4           an alternative, would dry cooling be possible in  
5           the same manner, for instance, that you've done at  
6           Sutter in the space that you have for the site as  
7           an alternative?

8                         MR. ABREU: I think I answered that back  
9           when we talked about water. And what I said is  
10          that we would have to, on that site, encroach  
11          partly into the riparian setback area with an air  
12          cooled condenser, and so we would have to mitigate  
13          that impact, and we could. But we'd also have to  
14          go back to the, you know, the Energy Commission  
15          and amend our project.

16                        MR. GARBETT: But given the particular  
17          site dimensions of Sutter as opposed to the rather  
18          large wieldy site that you have at Metcalf, and  
19          you've engineered it once before, couldn't you  
20          basically make a smaller compact site within your  
21          present borders without moving any buildings other  
22          than just readdressing your present cooling towers  
23          and converting to dry cooling?

24                        MR. ABREU: No.

25                        MR. GARBETT: Okay. Is there space

1 available on the site to basically make dry  
2 cooling possible?

3 MR. ABREU: I think I already answered  
4 that.

5 MR. GARBETT: Huh?

6 MR. ABREU: I think I already answered  
7 that.

8 MR. GARBETT: Mr. Stocks, if they had  
9 dry cooling with no plumes, shorter stacks with a  
10 venturi type stack, and undergrounded  
11 transmissions going up the hill, would that make  
12 for a much more visual appealing design that you  
13 could do?

14 MR. STOCKS: It changes the problem,  
15 that's the important thing. The architectural  
16 problem that we have is with the design as it is  
17 now. And we can actually perhaps make all sorts  
18 of hypotheticals that would actually change the  
19 problem completely.

20 Whether that problem is actually easier  
21 to solve or not so easy to solve, that's the -- it  
22 has to be seen.

23 MR. GARBETT: Mr. Stocks, with a little  
24 bit of extra money, because dry cooling has a  
25 certain fixed price, as a possible addition or an

1 enhancement or a possible redesign, given the  
2 savings of billions of dollars of not having to  
3 extend water to the site, given that there would  
4 be a few million savings, would that be able to  
5 solve your design problems with more money?

6 MR. STOCKS: Well, the brief that we  
7 have from Calpine is to solve the design problems.  
8 We haven't been set a budget at all. Calpine  
9 wants to see this thing solved, and they've got  
10 no, there's no limit to the efforts that we're  
11 expending to actually do that. So it isn't a  
12 question of money.

13 MR. GARBETT: Okay, that concludes my  
14 questions. Thank you.

15 HEARING OFFICER FAY: Thank you. Mr.  
16 Wade.

17 MR. WADE: I have learned that five  
18 minutes is an impossible goal, but I'll --

19 HEARING OFFICER FAY: Do your best.

20 MR. WADE: -- do my best.

21 CROSS-EXAMINATION

22 BY MR. WADE:

23 Q Let's start with a question to Mr.  
24 Dunstan. You mentioned that you were going to use  
25 predictive curves to come up with a plume length

1 as a function of temperature and humidity  
2 correlated over some period of time.

3 Would it be possible for you to use that  
4 curve to limit the operation of the plant? In  
5 other words, if the curves predicted that there  
6 was going to be a plume, would it be possible for  
7 you to stop operation of the plant?

8 MR. DUNSTAN: Well, it's always possible  
9 for us to shut the plant down.

10 MR. WADE: Okay, that's all.

11 MR. DUNSTAN: We don't know that it  
12 would serve the grid.

13 MR. WADE: No, I understand, thank you.  
14 Question for Mr. Rubenstein. Now these are some  
15 questions that Mr. Ajlouny touched on briefly, but  
16 I just want to ask you a few more questions.

17 In describing the feature effects of the  
18 power plant and the architectural features that  
19 are actually part of the AFC supplement B, I think  
20 there were several comments that additional  
21 analysis would have to be done if there were a  
22 change in the plant design.

23 Is it not true that that design was, in  
24 fact, analyzed and submitted as application  
25 supplement B, and that there were several air

1 pollution problems with that? In particular there  
2 was a carbon monoxide preconstruction monitoring  
3 trigger that was exceeded? And a PM10  
4 significance, PSD limit that was exceeded? And  
5 contentious issues with the Bay Area Air Quality  
6 Management District in their disapproval of your  
7 use of the ISC prime model, which was not an EPA  
8 approved model, so that in summary, analysis has  
9 been completed on that? It's not a matter of  
10 speculation, but that facility, in fact, will not  
11 work? Or has significant problems?

12 MR. RUBENSTEIN: I think I got all the  
13 questions there. Let me see if I can run through  
14 them, Jeff.

15 First of all, when I said that changes  
16 would have to be evaluated through modeling I was  
17 not talking about that design. The question came  
18 to me about if the current design that we have  
19 today, and that has already been reviewed by all  
20 the agencies, were to change, would that require  
21 additional analysis, and the answer is yes.

22 MR. WADE: Good.

23 MR. RUBENSTEIN: Second, you are correct  
24 that the specific design you're talking about was  
25 analyzed completely as part of supplement B.

1                   Third, no, I don't believe that that  
2                   design created any air quality problems. We  
3                   worked through those and that's why ultimately  
4                   that design was included in supplement B. It did  
5                   trigger an additional monitoring requirement at  
6                   the discretion of the Bay Area District. And the  
7                   Bay Area District chose to exercise that  
8                   discretion.

9                   At the same time that the Bay Area  
10                  District chose to exercise that discretion,  
11                  Calpine and Bechtel were reviewing that design  
12                  with other parties.

13                  And as a result of those other decisions  
14                  they chose to change the design again, which  
15                  fortunately made my life easier, and eliminated  
16                  the trigger for the preconstruction monitoring.

17                  But that was not determinative. The  
18                  reason why the change was made between supplement  
19                  B and supplement B was because of discussions with  
20                  other parties about the architectural features.

21                  MR. WADE: Okay, I think I understand.  
22                  Would it be fair to say that it contributed to  
23                  your decision?

24                  MR. RUBENSTEIN: No.

25                  MR. WADE: No? Okay. You missed one,

1           which was the Air Quality Management District, a  
2           disapproval or contention with your use of ISC  
3           Prime.  Would you --

4                       MR. RUBENSTEIN:  You're right, I did  
5           miss that.  I've forgotten the context of that  
6           question.  Could you repeat that question, please?

7                       MR. WADE:  I'm pointing out that the Air  
8           District had challenged your use of ISC Prime to  
9           generate the air pollution modeling data and --

10                      MR. RUBENSTEIN:  They did because at  
11           that time it was not an EPA approved guideline  
12           model.

13                      MR. WADE:  Okay, thanks.  I have some  
14           questions for Dr. Priestley.  Thank you, Gary.

15                      Okay, let's refer to this figure which  
16           is called figure 8.11-1BR.  It shows the viewshed,  
17           I believe it's called, --

18                      DR. PRIESTLEY:  Yes.

19                      MR. WADE:  -- for the planned view of  
20           the site.  Could you please refer to the upper  
21           left corner of the viewshed, follow the line along  
22           below KOP9.

23                      DR. PRIESTLEY:  Okay.

24                      MR. WADE:  Would you concur that there's  
25           a bike path, walking trail that follows just

1           inside the visual viewshed which is called the  
2           Coyote Creek Trail? Starting at -- well, directly  
3           down from KOP9 and extending all the way down to  
4           the bottom of the viewshed.

5                       DR. PRIESTLEY: And I am aware that  
6           there are trails in this area, and I believe that  
7           you may be referring to a trail that kind of  
8           continues along I guess you might call it like the  
9           southwest side of that series of lagoons there,  
10          and --

11                      MR. WADE: Right.

12                      DR. PRIESTLEY: -- parkway, and it kind  
13          of goes along the top of a levee?

14                      MR. WADE: Right.

15                      DR. PRIESTLEY: Yes, I'm aware of that.

16                      MR. WADE: Okay. I believe you used the  
17          term earlier, the cone of vision, referring to the  
18          way people might view the power plant.

19                      Would it be fair to say, looking at the  
20          map of the trail, that the power plant would be  
21          directly in the cone of vision of anyone walking  
22          along the trail for about a mile?

23                      DR. PRIESTLEY: Well, you know, I've  
24          spent some time in that area, you know, really  
25          thinking very very hard about what the potential

1 visibility of a power plant on the Metcalf site  
2 would be from that trail corridor. And there are  
3 a couple of things going on here.

4 One is Tulare Hill, itself, at least in  
5 places, provides some screening in between. A  
6 couple other factors you need to consider include  
7 some of the riparian vegetation that's in between,  
8 and then the distance factor, as well, because  
9 when --

10 MR. WADE: Actually, I have considered  
11 all those.

12 DR. PRIESTLEY: Okay.

13 MR. WADE: In fact, I live there, so  
14 there is no obstruction in terms of vegetation,  
15 and Tulare Hill doesn't block the trail, all the  
16 way from the edge of your viewshed all the way  
17 down.

18 And, in fact, isn't that the definition  
19 of a viewshed? That you can see everything, you  
20 can see the power plant from inside?

21 DR. PRIESTLEY: I think one of the  
22 things I explained in the text of the AFC is this  
23 is a generalized viewshed in that it is quite  
24 possible, there are specific places within it when  
25 localized views, you know, may be -- in localized

1 areas views towards the project site might, in  
2 fact, be screened --

3 MR. WADE: I'm sure I --

4 DR. PRIESTLEY: -- you know, is --

5 MR. WADE: -- would have to stipulate  
6 that. Would you be willing to, in exchange,  
7 stipulate that there are many many periods of time  
8 through which along the top of the levee inside  
9 the viewshed, looking directly in the direction  
10 you're walking, that you would be inclined to see  
11 the power plant stacks over the small protuberance  
12 of Tulare Hill?

13 DR. PRIESTLEY: It's -- yeah, I'll  
14 stipulate that it's quite possible that there are  
15 places where you might be able to see them. In  
16 fact, you know, one of the reasons --

17 MR. WADE: Okay, that's fine.

18 DR. PRIESTLEY: -- KOP6 was to give kind  
19 of a generalized --

20 MR. WADE: That --

21 PRESIDING MEMBER LAURIE: Dr. Priestley,  
22 the question called for a yes or no, and you  
23 answered it.

24 MR. WADE: Thank you. Okay, now, are  
25 you aware of the fact that just outside the

1 viewshed, in fact, there's a big white section in  
2 the map, are you aware of the fact that's a  
3 housing development, and that there are 244  
4 detached homes and over 400 condominium attached  
5 homes in that housing development?

6 DR. PRIESTLEY: I'm wondering if you're  
7 maybe talking about an area just above where it  
8 says Basking Ridge Avenue? Is that --

9 MR. WADE: No, I'm not. I'm talking  
10 about just below the trail that we've been talking  
11 about. So that would be due south, south of the  
12 trail, and adjacent to the trail.

13 DR. PRIESTLEY: You're talking about the  
14 existing housing --

15 MR. WADE: Yes.

16 DR. PRIESTLEY: -- that's in that  
17 location?

18 MR. WADE: It's called California  
19 Maison.

20 DR. PRIESTLEY: Yeah, in fact, I am  
21 familiar with that. I have spent time in that  
22 area.

23 MR. WADE: Good, so you're aware of that  
24 housing development, and you --

25 DR. PRIESTLEY: Yes.

1                   MR. WADE:  -- recognize that it exists?  
2                   And it's adjacent to the trail?  Do you recognize  
3                   that the housing development is adjacent to the  
4                   trail?

5                   DR. PRIESTLEY:  Oh, yes, yes.

6                   MR. WADE:  Okay.  You mentioned in your  
7                   earlier testimony that the CEC considers people  
8                   moving about and the views that they might acquire  
9                   while moving about -- I think you were referring  
10                  to their property, but --

11                  DR. PRIESTLEY:  Well, their property and  
12                  other neighborhoods, as well.

13                  MR. WADE:  Okay.  Would it be reasonable  
14                  to recognize that there are many hundreds of  
15                  families that may spend a lot of their time moving  
16                  about in such a way that they're going to spend a  
17                  large proportion of their time looking directly at  
18                  the power plant?

19                  DR. PRIESTLEY:  You're suggesting people  
20                  from this neighborhood use the trail and --

21                  MR. WADE:  I'm suggesting --

22                  DR. PRIESTLEY:  -- and they may see it  
23                  from there?

24                  MR. WADE:  Um-hum.

25                  DR. PRIESTLEY:  Yeah, I can accept that,

1           yeah.

2                       MR. WADE:   Okay.  You have also  
3           indicated, no, actually it was the CEC in the FSA  
4           has indicated that KOP7, which is the Coyote Ranch  
5           has high visual characterization, high visual  
6           quality?

7                       DR. PRIESTLEY:  I'd have to take a look  
8           at my testimony --

9                       MR. WADE:  No, no, no, I'm asking you if  
10          you're aware of the fact that the FSA says that.  
11          That KOP7 is Coyote Ranch.  And you can look at  
12          the map and verify that.  And that the visual  
13          quality associated with that KOP is high?

14                      DR. PRIESTLEY:  I'll accept that, that's  
15          what they say.  I have to --

16                      MR. WADE:  Okay, yeah, I've got it right  
17          here.  They also say that the Coyote Creek trail  
18          is considered to have the same visual  
19          characterization as Coyote Ranch.

20                      DR. PRIESTLEY:  You mean visual, like  
21          quality?

22                      MR. WADE:  Yes.

23                      DR. PRIESTLEY:  Okay, yeah.

24                      MR. WADE:  Okay.  I believe your  
25          definition of significance is that if there are a

1 significant number of people -- no, this is not  
2 yours, this is CEQA -- if there are a significant  
3 number of people that are affected by a view,  
4 which degrades moderately high or high quality  
5 view, then that would be a significant impact.

6 DR. PRIESTLEY: Again, we've had a  
7 discussion a little bit earlier about some of the  
8 ingredients that go into a --

9 MR. WADE: Yeah, so you probably --

10 DR. PRIESTLEY: So, there's --

11 MR. WADE: -- probably agree with that?

12 DR. PRIESTLEY: So the number of people  
13 would be one of the elements that you would  
14 consider in thinking through the part about what  
15 is the sensitivity of the view. So large numbers  
16 of people engaged in recreational activities would  
17 be something that you would need to pay some  
18 serious attention to --

19 MR. WADE: Okay.

20 DR. PRIESTLEY: -- in making your final  
21 determination.

22 MR. WADE: Thank you, that's all I have.

23 HEARING OFFICER FAY: Okay, great.

24 Thank you. Ms. Willis, do you need some time  
25 before you start on -- oh, Mr. Scholz. And how

1 long did you --

2 MR. SCHOLZ: I estimated one hour.

3 HEARING OFFICER FAY: You estimated one  
4 hour?

5 MR. SCHOLZ: Ten minutes, and I believe  
6 a couple questions have been asked, so it may be  
7 shortcut.

8 HEARING OFFICER FAY: Okay, good.

9 CROSS-EXAMINATION

10 BY MR. SCHOLZ:

11 Q Dr. Priestley, were you in attendance  
12 when the visual designs were shown to the  
13 community at a community meeting at Martin Murphy  
14 Middle School?

15 DR. PRIESTLEY: If you're referring to  
16 the open house that occurred, I think it was on a  
17 spring day about a year and -- almost two years  
18 ago?

19 MR. SCHOLZ: I'm not referring to the  
20 June 5th open house, but the community meetings at  
21 Martin --

22 DR. PRIESTLEY: Was that the Charlotte  
23 Powers --

24 MR. SCHOLZ: Yes.

25 DR. PRIESTLEY: Oh, yes, I remember that

1 one very well.

2 (Laughter.)

3 MR. SCHOLZ: Was the community pleased  
4 with the look of the power plant?

5 DR. PRIESTLEY: I heard a lot of things  
6 that evening, and I'd be hard put to say that many  
7 of them were directed specifically at the  
8 architectural design that we were presenting.

9 MR. SCHOLZ: Just, thank you. I just  
10 wanted to somehow get to the Committee that there  
11 was a large number of people that didn't like the  
12 design. I tried to do that with two questions.

13 PRESIDING MEMBER LAURIE: There's no  
14 evidence in front of the Committee that there's  
15 any consensus as to any particular architectural  
16 plan at this point.

17 MR. SCHOLZ: You suggested earlier that  
18 you expected to hear that there was large  
19 opposition to the power plant design in the  
20 community, and how are we going to do that unless  
21 we bring out hundreds of people to tell you that  
22 they don't like the --

23 PRESIDING MEMBER LAURIE: I don't recall  
24 that. I don't know what you mean.

25 MR. SCHOLZ: You said you expected to

1       hear testimony that people don't like the design  
2       of the power plant. How would you expect, when we  
3       can only ask questions, how are we supposed to  
4       present testimony that people don't like the  
5       design of --

6                   CHAIRMAN KEESE: I think he said we  
7       expect to hear argument at the end. Some people  
8       are going to like it, some people aren't going to  
9       like it. We expect to hear a debate when you --

10                  MR. SCHOLZ: Right, but there's no  
11       evidence to say that, so I'm trying to establish  
12       an evidentiary way of saying that people didn't  
13       like it.

14                  PRESIDING MEMBER LAURIE: Yeah, well,  
15       but --

16                  MR. SCHOLZ: Without trotting 100 people  
17       to come to your meeting to tell you that.

18                  PRESIDING MEMBER LAURIE: I think what  
19       we've been trying to get across is that it is  
20       unlikely that we're going to settle what the plant  
21       looks like tonight or even as part of any  
22       certification that might result as a result of  
23       these hearings.

24                  MR. SCHOLZ: I agree completely.  
25       They're going to believe it's the greatest thing,

1 some community members --

2 PRESIDING MEMBER LAURIE: No, no, I --

3 MR. SCHOLZ: -- think it's something  
4 else.

5 PRESIDING MEMBER LAURIE: -- I'm saying  
6 I'm not even satisfied that the looks of the plant  
7 are going to be determined by any decision that's  
8 going to come out of this Commission.

9 MR. SCHOLZ: I'd like to follow up on  
10 that. I got the inclination that Commissioner  
11 Laurie demonstrated that he may be more inclined  
12 to like the visual design shown in the simulation  
13 number 35, where the stacks are covered.

14 PRESIDING MEMBER LAURIE: I didn't offer  
15 any preference.

16 MR. SCHOLZ: Okay, you didn't. During  
17 the direct testimony provided by the applicant, it  
18 seemed like you gave several misleading  
19 impressions to the Committee that the design  
20 completely covered -- the design that completely  
21 covers the HRSG stack would require an air quality  
22 analysis would have to be redone. This is similar  
23 to what Jeff asked. And that the City required  
24 you to remove the top 50 feet of cover, and that  
25 you also stated that you got community input on

1 your design.

2 And I wanted to ask questions relating  
3 to that. And as Jeff asked, you did do air  
4 quality modeling analysis on this type of design.  
5 Would you like to correct that for the Committee's  
6 sake that you did analyze covering the stacks?

7 MR. RUBENSTEIN: We analyzed that  
8 specific design. But, as I said when Jeff asked  
9 the question, there were other designs that  
10 completely covered the stack that we found  
11 unacceptable, and as a general rule, we would find  
12 it very difficult to make a design that completely  
13 covered the stack acceptable.

14 That was a lot of work that went into  
15 that design to make it one that was acceptable  
16 from an air quality perspective.

17 MR. SCHOLZ: I'm trying to understand --  
18 thank you for that answer. At this point in time  
19 a design that covers the HRSG stacks is impossible  
20 for this project. We got to make a decision to  
21 whether accept this project or not with a design  
22 that cannot disguise the HRSG stacks, would that  
23 be a fair statement?

24 MR. RUBENSTEIN: No, if I learned  
25 anything through this process, it's that I can't

1 make any predictions about what the air quality  
2 impacts are going to be of a design on this site  
3 with the equipment as close as it is together  
4 without actually doing the analysis.

5 So, Scott, I can't make any general  
6 statements like that. The only thing I can say is  
7 if someone wanted a design that would completely  
8 cover the stacks, it would be very difficult, but  
9 not necessarily impossible. And I couldn't render  
10 any opinions about it unless I actually analyzed  
11 it.

12 MR. SCHOLZ: I'll come back to that,  
13 thank you.

14 MR. RUBENSTEIN: Okay.

15 MR. SCHOLZ: Would you agree, and this  
16 would probably go to Dr. Priestley, that a visual  
17 plume shatters the hope of disguising this faux  
18 office building as a nonheavy industrial building?

19 DR. PRIESTLEY: I wouldn't agree with  
20 that.

21 MR. SCHOLZ: Would you agree that seeing  
22 two exhaust stacks shatters the hope of disguising  
23 this faux office building as a nonheavy industrial  
24 building?

25 DR. PRIESTLEY: I guess I wouldn't

1 characterize it in that way.

2 MR. SCHOLZ: At this point in time the  
3 site chosen for MEC and the analysis done that  
4 you're submitting for a decision has precluded a  
5 design that disguises the HRSG stacks.

6 HEARING OFFICER FAY: Is that a  
7 question?

8 MR. SCHOLZ: Yes. Is covering the HRSG  
9 stacks off the table?

10 MR. ABREU: The application we're making  
11 is for the design we have, which doesn't have the  
12 HRSG stacks covered.

13 MR. SCHOLZ: So we're making a visual  
14 determination that they will not be covered?

15 MR. ABREU: Right.

16 MR. SCHOLZ: We have to go with  
17 basically the framework of what you've shown us?

18 MR. ABREU: Right.

19 MR. SCHOLZ: And showing us beautiful  
20 pictures of other power plants is irrelevant  
21 because we have to deal with this design --

22 PRESIDING MEMBER LAURIE: Well, that's  
23 the applicant's position. That's not necessarily  
24 what the Commission may or may not do.

25 MR. SCHOLZ: So you're giving us hope

1           that, like I said, it seemed like you were  
2           inclined to think it's better looking if the HRSG  
3           stacks are covered, so you're saying there's hope  
4           that you can impose --

5                         PRESIDING MEMBER LAURIE:   What I'm  
6           saying is I think the Committee is going to  
7           consider a more detailed examination of  
8           architectural alternatives.

9                         MR. SCHOLZ:   Thank you.

10                        PRESIDING MEMBER LAURIE:   I think the  
11           Committee understands what something looks like is  
12           very important.

13                        HEARING OFFICER FAY:   All done?

14                        MR. SCHOLZ:   I'm done.

15                        HEARING OFFICER FAY:   Okay.   I want to  
16           follow up with a question.   Mr. Rubenstein, you --

17                        PRESIDING MEMBER LAURIE:   You have 30  
18           seconds, Mr. Fay.

19                        (Laughter.)

20                        HEARING OFFICER FAY:   I got it, I'll  
21           talk fast.   Cutting me off.

22                        You said other entities had influence as  
23           to whether the design to conceal the HRSG stacks  
24           was going to go forward or was set aside.   And was  
25           the City of San Jose one of those that actually

1 preferred some exposure of the stacks?

2 MR. RUBENSTEIN: I was not involved in  
3 those discussions. I think Mr. Abreu can answer  
4 that.

5 HEARING OFFICER FAY: Mr. Abreu?

6 MR. ABREU: There were a number of  
7 reasons we changed off that design. As I  
8 mentioned earlier, the City was one of the people  
9 that provided input that caused us to go to a  
10 different design.

11 HEARING OFFICER FAY: And this is part  
12 of their view that the power plant should be  
13 recognized as a power plant?

14 MR. ABREU: That was part of it. Part  
15 of it was also that we had to move the equipment  
16 on the plant to meet this 100-foot setback instead  
17 of the 65.

18 Once you have to move the equipment in  
19 the plant, you have to redo the modeling all over  
20 again anyway. So we knew we had to do it again  
21 anyway, and you know, we got the comment on  
22 celebrate the plant, and on reducing bulk and  
23 opening up the thing more visually, and so forth.

24 And then there was this height law about  
25 95 feet. So there were a whole bunch of factors.

1 And we were saying, you know, well what's the  
2 simplest way through this set of problems.

3 HEARING OFFICER FAY: Okay.

4 MR. ABREU: And I mentioned a lot of  
5 other folks had comments that were negative about  
6 covering the stacks, as well, architectural  
7 journalists and so forth. So we were getting a  
8 lot of feedback in that direction.

9 HEARING OFFICER FAY: Okay, so this has  
10 been aired in the community, both the design to  
11 conceal the stacks, and one that, the current  
12 design that reveals it more?

13 MR. ABREU: We've had no lack of  
14 comments on all of our designs.

15 (Laughter.)

16 HEARING OFFICER FAY: All right. Okay,  
17 thank you. That concludes the cross-examination.  
18 Do you have any redirect, Mr. Harris?

19 MR. HARRIS: I fear what would happen if  
20 I said yes, so, no.

21 HEARING OFFICER FAY: Very wise. Ms.  
22 Willis, do you need a moment before you do your  
23 direct, or are you ready to go ahead.

24 MS. WILLIS: I think we'd better go  
25 ahead.

1 HEARING OFFICER FAY: Okay. Do we need  
2 to swear your panel?

3 MS. WILLIS: Yes, staff calls Joe  
4 Donaldson, Will Walters and Gary Walker.

5 HEARING OFFICER FAY: Please swear the  
6 witnesses.

7 Whereupon,

8 JOE DONALDSON, WILLIAM WALTERS

9 and GARY WALKER

10 were called as witnesses herein, and after first  
11 having been duly sworn, were examined and  
12 testified as follows:

13 PRESIDING MEMBER LAURIE: Ms. Willis,  
14 before you start, and I'm prepared to be overruled  
15 by my Hearing Officer, but I'd be inclined to urge  
16 you to not concentrate on the debate over whether  
17 or not there's a significant impact on KOP1,  
18 because the Committee has heard substantial  
19 evidence on both sides. And I'm not satisfied  
20 what more testimony will accomplish.

21 Gary has to help us write the opinion,  
22 so if he thinks he needs more, that's fine. But I  
23 think we understand what the issue is.

24 HEARING OFFICER FAY: I'm sure staff has  
25 addressed that KOP in their written testimony.

1 MS. WILLIS: I'd like to start with Mr.  
2 Donaldson.

3 DIRECT EXAMINATION

4 BY MS. WILLIS:

5 Q Could you please state your name for the  
6 record.

7 MR. DONALDSON: It's Joe Donaldson.

8 MS. WILLIS: Was a statement of your  
9 qualifications attached to this testimony?

10 MR. DONALDSON: Yes, it was.

11 MS. WILLIS: Could you briefly state  
12 your education and experience as it pertains to  
13 visual resources.

14 MR. DONALDSON: Yes, I have an  
15 undergraduate degree in architecture from UC  
16 Berkeley, 1975 and a master of landscape  
17 architecture from Utah State University in 1982.

18 MS. WILLIS: And your work experience?

19 MR. DONALDSON: I work for an  
20 environmental consulting firm, Jones and Stokes.  
21 I have over 20 years of experience in planning and  
22 landscape architecture, a university instructor  
23 for several years. I've done numerous lectures on  
24 visual resources management. And have worked on a  
25 variety of projects over these 20 years dealing

1 with visual resources analysis and planning.

2 MS. WILLIS: Did you prepare the  
3 testimony entitled visual resources in the final  
4 staff assessment?

5 MR. DONALDSON: Yes, I did.

6 MS. WILLIS: And that, for the record,  
7 has been previously marked exhibit 7.

8 Are you sponsoring rebuttal, the  
9 testimony entitled rebuttal to applicant's visual  
10 resources testimony?

11 MR. DONALDSON: Yes.

12 MS. WILLIS: And that will need to be  
13 marked as a new exhibit.

14 HEARING OFFICER FAY: We'll mark that as  
15 exhibit 107.

16 MS. WILLIS: Mr. Donaldson, do you have  
17 any changes to your testimony?

18 MR. DONALDSON: There are a couple of  
19 changes. One is in the FSA, the visible plumes  
20 analysis that's been submitted by Will Walters in  
21 the supplement.

22 MS. WILLIS: Okay, and could you refer  
23 to your rebuttal testimony on page 8, I believe  
24 there was a change on --

25 MR. DONALDSON: Right, there's a

1 misheading there. It says VIS2, and it should be  
2 corrected to say VIS5. And that's on page 8 of my  
3 rebuttal.

4 MS. WILLIS: Do any of those changes  
5 change your conclusions?

6 MR. DONALDSON: No.

7 MS. WILLIS: And do the opinions  
8 contained in your testimony represent your best  
9 professional judgment?

10 MR. DONALDSON: Absolutely.

11 MS. WILLIS: Mr. Walters, could you  
12 please state your name for the record.

13 MR. WALTERS: My name is William  
14 Walters.

15 MS. WILLIS: And did you prepare the  
16 supplemental testimony entitled, cooling tower and  
17 HRSG visible plume analysis?

18 MR. WALTERS: Yes, I did.

19 MS. WILLIS: And I believe that's been  
20 previously marked as exhibit 96.

21 Was a statement of your qualifications  
22 attached to your testimony?

23 MR. WALTERS: I believe it was.

24 MS. WILLIS: And could you briefly state  
25 your education and experience as it pertains to

1 plume analysis.

2 MR. WALTERS: I have a BS in chemical  
3 engineering from Cornell University. Registered  
4 PE in chemical engineering in the State of  
5 California. I've been doing environmental work  
6 including modeling, for the last 15 years. I'm  
7 currently employed with Aspen Environmental.

8 MS. WILLIS: And do the opinions  
9 contained in your testimony represent your best  
10 professional judgment?

11 MR. WALTERS: Yes, they do.

12 MS. WILLIS: Mr. Walker, could you  
13 please state your name for the record.

14 MR. WALKER: My name's Gary Walker.

15 MS. WILLIS: And, Mr. Walker, could you  
16 tell us what your job title is at the Energy  
17 Commission.

18 MR. WALKER: Yes, I'm an Energy Facility  
19 Siting Planner II.

20 MS. WILLIS: And did you supervise the  
21 written testimony provided under visual resources?

22 MR. WALKER: Yes, I did.

23 MS. WILLIS: Mr. Donaldson, in your  
24 analysis of visual resources, did you visit the  
25 site and surrounding area?

1 MR. DONALDSON: Yes, I did.

2 MS. WILLIS: You analyzed 11 key  
3 observation points and the general area.

4 MR. DONALDSON: That's correct.

5 MS. WILLIS: In your analysis of visual  
6 resources did you conclude there would be any  
7 direct significant adverse impacts to the  
8 environment?

9 MR. DONALDSON: Yes.

10 MS. WILLIS: And were most of those  
11 mitigable?

12 MR. DONALDSON: Most of them were.

13 MS. WILLIS: And in your professional  
14 opinion are any of those impacts unmitigable to  
15 less than significance?

16 MR. DONALDSON: Yes. There are actually  
17 two that are unmitigable to less than significant.

18 MS. WILLIS: And, as we've agreed with  
19 the Committee we won't address KOP1, but that was  
20 one of them, is that correct?

21 MR. DONALDSON: That's correct.

22 MS. WILLIS: And could you please  
23 address how you were led to the conclusion the  
24 impacts would be unmitigable in the combination  
25 views throughout the area.

1                   MR. DONALDSON: Yes. I looked at the  
2 visual quality of the entire area and looked at  
3 visual sensitivity of the entire area, also. Felt  
4 it was important in this case because there is  
5 actually quite a precedent for looking at a  
6 combination of views from throughout the area.  
7 The U.S. Forest Service does that; BLM does that.  
8 There are a variety of visual resource management  
9 systems operated by the federal government that in  
10 fact look at linear facilities and look at a  
11 variety of areas.

12                   Felt it was very important to do this to  
13 provide a context for visual assessment for the  
14 entire area.

15                   I looked at all of the KOPs in  
16 association with looking at views from roads, from  
17 residences, and so forth throughout the area.

18                   I looked at visual sensitivity. I  
19 looked at the fact that the area is seen regularly  
20 by large numbers of people on a daily, weekly and  
21 yearly basis from numerous locations throughout  
22 the area including roads, residences, businesses,  
23 and recreation facilities and so on.

24                   Lots of area residents travel around the  
25 area. There's a scenic highway, 101, that carries

1 extremely high numbers of people along there.  
2 There are trains that carry several thousand  
3 passengers per day back and forth along those  
4 tracks immediately adjacent to the site. And  
5 there are a number of recreation areas, including  
6 parkway lakes, Coyote Ranch, and other trails and  
7 pathways in the area.

8 So I looked at the visual sensitivity in  
9 terms of high numbers of people traveling, moving  
10 throughout the area. And I looked at the visual  
11 quality from throughout the area.

12 MS. WILLIS: And your conclusion?

13 MR. DONALDSON: My conclusion is that  
14 for the combination of views from throughout the  
15 area, including the KOPs and a variety of other  
16 locations throughout the area, that those impacts  
17 are, in fact, significant.

18 MS. WILLIS: The applicant supplied some  
19 photosimulations of power plant design. Can you  
20 tell me, out of the number that were submitted,  
21 which design most represents the one that you  
22 analyzed in the FSA?

23 MR. DONALDSON: Out of the one that were  
24 submitted, it's number 26, although there's a  
25 slight difference. I don't see the cooling tower

1           there. I'm not sure that tanks and other  
2           facilities are precisely located. But generally  
3           the mass of the structures and the HRSG units is  
4           the one that I analyzed.

5                         MR. HARRIS: I'm sorry, 26?

6                         MR. DONALDSON: 26 is --

7                         MR. HARRIS: Oh, of our handout.

8                         MR. DONALDSON: Yes.

9                         MS. WILLIS: Of your handout.

10                        MR. DONALDSON: Yeah, yeah. It's also  
11           portrayed in most of the visual simulations in the  
12           FSA, as well.

13                        MS. WILLIS: Mr. Donaldson, did you  
14           conclude that there would be any cumulative  
15           impacts?

16                        MR. DONALDSON: Yes, I did.

17                        MS. WILLIS: I'm sorry, visual impacts.

18                        MR. DONALDSON: Yes. There are  
19           significant cumulative visual impacts associated  
20           with this project.

21                        MS. WILLIS: Did you analyze local LORS  
22           relating to visual resources?

23                        MR. DONALDSON: Yes, I did.

24                        MS. WILLIS: Were those both City and  
25           County LORS?

1 MR. DONALDSON: Yes.

2 MS. WILLIS: And did you determine that  
3 this project would be in compliance with all LORS?

4 MR. DONALDSON: No.

5 MS. WILLIS: Could you state, I guess if  
6 you can just state how many LORS apply, and the  
7 number that did not comply.

8 MR. DONALDSON: As was stated earlier by  
9 the applicant, there were a couple that were  
10 dropped. Actually there were only two of those  
11 total number of LORS that were dropped. So we  
12 ended up with a total number in the FSA -- I  
13 should offer that the reason they were dropped was  
14 because of the adoption of the master development  
15 plan for Coyote Valley on October 24th, which was  
16 actually after the filing of the FSA.

17 So my analysis didn't indicate -- my  
18 analysis in the FSA was slightly changed by that  
19 change in the adoption of the plan by the City of  
20 San Jose. That's the reason for that.

21 There were 35 LORS, and now I'm talking  
22 about currently, following the adoption of the  
23 master development plan, 35 LORS that were  
24 applicable, and of those, 22 I found were in  
25 compliance, or the power plant was in compliance

1 with 22 of the 35. And was not in compliance with  
2 11 of the 35. Actually 13 of the 35, but two, if  
3 the conditions of certification are adopted for  
4 those would be, they would actually be brought  
5 into compliance.

6 So we're left with a total of 11 out of  
7 35 that were not in compliance.

8 MS. WILLIS: Thank you. I'd like to  
9 return to Mr. Walters. The issue of visual plume  
10 has been of concern to the public and to the City  
11 of San Jose.

12 Did you provide supplemental analysis of  
13 the potential for visual plume?

14 MR. WALTERS: Yes, I did.

15 MS. WILLIS: And does your supplemental  
16 assessment supplant only part of the discussion of  
17 the visual plumes in the FSA?

18 MR. WALTERS: It supplements  
19 specifically only any numeric analysis provided in  
20 the FSA.

21 MS. WILLIS: So that would be the  
22 modeling analysis?

23 MR. WALTERS: Yes, it would.

24 MS. WILLIS: And just a few words, or as  
25 briefly as you can, could you explain what a

1 psychometric analysis is?

2 MR. WALTERS: A psychometric analysis,  
3 in the context of stacks, is looking at the  
4 beginning condition, at the exhaust and the end  
5 condition when it's fully mixed with ambient.  
6 Essentially you draw a line between the two  
7 conditions on a psychometric chart. And if you  
8 cross a saturation line you get condensation,  
9 which is essentially a plume.

10 It's a pretty straightforward analysis  
11 and unlike dispersion modeling there are no safety  
12 factors involved. It's pretty absolute in terms  
13 of its basic physical parameters.

14 MS. WILLIS: Can you explain how you  
15 conducted your analysis for this project?

16 MR. WALTERS: Initially I used the met  
17 data set that was provided by the applicant and  
18 did a quick hand calc, just putting the line on  
19 the chart by myself, you know, physically drawing  
20 the line between the conditions that were provided  
21 by the applicant for their design points.

22 And after that I determined that I  
23 needed more met data to make sure that the  
24 conditions would not go below those that are at  
25 the design point, specifically my knowledge of the

1 area wasn't such that I could say that 30 degrees  
2 Fahrenheit was a very cold condition in the area.

3 So I called up Bay Area Air Quality  
4 Management District and got additional five years  
5 of met data at the two closest locations that they  
6 had, a data set that would provide me enough  
7 information to run the analysis.

8 Those locations were at the San Jose  
9 Airport and at the San Martin Airport,  
10 respectively essentially north and south of the  
11 site. Both approximately 13 to 14 miles away.

12 And then running the analysis on those  
13 again, doing just an initial calculation by hand I  
14 was finding the potential for plume. So at that  
15 point I used a more rigorous computer analysis,  
16 which draws the line a little more accurately than  
17 I can by hand. And that is the results that are  
18 in my paper.

19 MS. WILLIS: In your professional  
20 opinion can the applicant comply with the proposed  
21 staff condition VIS10 with the current proposed  
22 project design?

23 MR. WALTERS: In my opinion there will  
24 be met conditions that will occur sometime during  
25 the project life, or some years during the project

1 life that will put them outside of the range of  
2 the requirements of that condition.

3 MS. WILLIS: Thank you. Mr. Donaldson,  
4 did you review the applicant's testimony?

5 MR. DONALDSON: Yes, I did.

6 MS. WILLIS: And the applicant has  
7 proposed changes to staff's proposed conditions of  
8 certification as part of their appendix B. I know  
9 you've provided rebuttal testimony addressing most  
10 of the proposed changes.

11 Do you agree with the applicant's  
12 proposed changes for VIS1?

13 MR. DONALDSON: Actually, no.

14 MS. WILLIS: And can you explain?

15 MR. DONALDSON: Yeah, VIS1 calls for,  
16 that the one that describes you can have a low  
17 gloss finish on the plant.

18 What we've determined is that low gloss  
19 finishes are often used for other projects,  
20 industrial projects and so forth. They have been  
21 used, so there's a precedent for that. They don't  
22 actually deteriorate as rapidly as the applicant  
23 suggested in their report. And Gary Walker has  
24 done some research on that and could provide some  
25 additional background on that, using his research

1 for that.

2 And I think what's important, too, is to  
3 realize that the purpose is really to reduce the  
4 glare of the plant. And if we look at a higher  
5 gloss paint there, we're not, in fact, helping it  
6 to blend in with its surroundings, or to soften  
7 the effect overall. It potentially could create  
8 more reflectance and attract more attention to it,  
9 and therefore be more visually prominent.

10 So for those reasons we feel like we  
11 need to stay with the idea of keeping the  
12 requirement on there for maintaining a low gloss  
13 finish.

14 MS. WILLIS: Mr. Walker, I think I'll  
15 turn to you for the next few. Did you review the  
16 proposed changes to staff's proposed conditions of  
17 certification?

18 MR. WALKER: Yes, I did.

19 MS. WILLIS: Let's go to VIS9. Are you  
20 in agreement with their proposed changes?

21 MR. WALKER: No.

22 MS. WILLIS: And can you explain why?

23 MR. WALKER: The applicant has proposed  
24 that specific requirements for screening be  
25 eliminated from the condition of the upper

1 portions of the structures that have a very  
2 industrial appearance, and to propose some  
3 substitute language that is not as specific as  
4 what's been proposed by staff. And staff  
5 intentionally made it specific because of  
6 particular concerns about the elements that would  
7 be visible without that screening.

8 Also they have chosen to strike out  
9 eliminating the industrial appearance of the  
10 catwalks by insetting them on the HRSG stack  
11 screening. And it's not clear in their discussion  
12 they implied that that was not possible, that  
13 elimination of those features would make the  
14 operation dysfunctional. But we weren't talking  
15 about eliminating any features, just redesigning  
16 them.

17 MS. WILLIS: Did you review the changes  
18 for VIS10?

19 MR. WALKER: Yes, I did.

20 MS. WILLIS: And either you or Mr.  
21 Donaldson can answer that. Can you explain if you  
22 agree with those changes.

23 MR. DONALDSON: Actually we agree that  
24 we can reduce one of those -- the requirement that  
25 the plant be shut down. I think that was in my

1 testimony. So, you know, --

2 MS. WILLIS: Actually that was  
3 eliminating that requirement, is that correct?

4 MR. DONALDSON: Yes, I'm sorry,  
5 eliminating that requirement, yeah, that's in my  
6 testimony.

7 What I think is important, though, if I  
8 can just add a little context to that, that the  
9 plumes, as we're all aware, are a major concern.  
10 There are several reasons for that. None exist in  
11 the area. The City of San Jose has come out and  
12 said that no plumes, actually no plumes are  
13 acceptable, and the plumes really represent a very  
14 strong indicator that it's an industrial facility.

15 So regardless of what the architectural  
16 structure is, if there are plumes hovering around  
17 or above that, it's going to be sort of branded,  
18 in essence, as an industrial facility. I think  
19 that's important to note.

20 Shall I go on?

21 MS. WILLIS: Yeah, --

22 MR. DONALDSON: I can talk more about  
23 it.

24 MS. WILLIS: That's fine. Let's go on,  
25 is there anything else on that? I mean, if

1           there's anything else that you feel like you need  
2           to add at this point?

3                       MR. DONALDSON: We did talk about  
4           changing the design parameters, also, from the  
5           30/90 that's been discussed to the 20/100, and you  
6           know, we can certainly, I'm sure we're going to  
7           get into that more at some point.

8                       MR. WALKER: There's a general change  
9           that applicant has proposed in a number of the  
10          conditions, and that's that the compliance project  
11          manager shall provide written comments on the  
12          proposed plan within 30 days of receipt of the  
13          plan.

14                      We found that to be -- our general goal  
15          is to respond as quickly as possible, but given  
16          staff resource limits sometimes that's simply not  
17          possible. And we don't want it to be specified in  
18          the verification.

19                      Actually these are conditions upon the  
20          applicant, not conditions upon the staff.

21                      MS. WILLIS: Mr. Walker, did you review  
22          VIS11, and I don't believe that was included in  
23          the written testimony.

24                      MR. WALKER: That's correct.

25                      MS. WILLIS: And those were changes

1 proposed by the applicant?

2 MR. WALKER: Yes, they want to eliminate  
3 the requirement for not installing landscape  
4 screening in the form of a dense evergreen hedge  
5 along any portion of Fisher Creek corridor, or  
6 future trail. And they want to add in, in  
7 consultation with the City of San Jose and Santa  
8 Clara County Parks and Recreation, that the owner  
9 shall plant the corridor.

10 However, in regard to consultation the  
11 protocol already requires that the City and County  
12 review and comment upon the plan. And so I think  
13 that's redundant to put it in the first part of  
14 the condition.

15 As far as the hedge I think I'll let Mr.  
16 Donaldson respond to that.

17 MR. DONALDSON: Yeah, I think the issue  
18 is that on the hedge, and this is a view from  
19 Fisher Creek of the power plant; the applicant has  
20 proposed screening that view by placing a dense  
21 evergreen hedge there.

22 It was my assessment that if that was  
23 done, in fact what that would do would also be to  
24 screen views of the surrounding rural landscape,  
25 the open fields, trees, hillsides and so forth.

1           And that would mean screened views of the power  
2           plant, it would also screen views of the open  
3           areas around there with the rural context.

4                        So, I felt it was important then to, I  
5           guess, eliminate that potential and maintain more  
6           flexibility. I guess what I would say we can do  
7           with VIS11 is that we would be okay with some of  
8           those changes, and provide the applicant with more  
9           flexibility, but maintaining the parameter that  
10          preserving views is important, and that it would  
11          not necessarily be a dense evergreen hedge that  
12          would block views along that entire corridor,  
13          which is what my understanding of the current  
14          reading or what the applicant has proposed.

15                       So, in other words we can relax that, I  
16          believe, a little bit and be more flexible, and  
17          allow some flexibility, as long as those  
18          parameters are more clearly identified that views  
19          will be maintained.

20                       MS. WILLIS: Thank you. I think that  
21          concludes our direct testimony.

22                       MR. WALKER: I have one more point to  
23          refer to. Mr. Walters. In regard to VIS10 I  
24          should have mentioned, we had considered the  
25          applicant's comments about difficulty of

1 monitoring, and I think Mr. Walters had some  
2 insight into possibilities in terms of --

3 MS. WILLIS: I think we're concluded.  
4 I'd like to, at this time, move the section visual  
5 resources of the FSA, exhibit 7, and exhibit 96  
6 and 107 into the record.

7 HEARING OFFICER FAY: Any objection?

8 MR. HARRIS: No.

9 HEARING OFFICER FAY: All right, so  
10 moved. Those are received into evidence.

11 PRESIDING MEMBER LAURIE: Question, Mr.  
12 Fay. Did you have something first?

13 HEARING OFFICER FAY: It was just a  
14 question of one of the witnesses before we go too  
15 far away from -- I wanted to ask Mr. Donaldson,  
16 that last answer, I missed a critical reference.  
17 The hedge?

18 MR. DONALDSON: Yes.

19 HEARING OFFICER FAY: And where is that  
20 located?

21 MR. DONALDSON: The applicant has  
22 proposed placing a dense evergreen hedge along  
23 Fisher Creek corridor, which would be -- maybe I  
24 could just point to it along here so you can refer  
25 to this figure.

1                   Along through this area, to screen views  
2                   from future trails that are intended to be along  
3                   this corridor here in the master development plan  
4                   and so on.

5                   So that was what the applicant had  
6                   proposed. And what I was saying was that a dense  
7                   evergreen hedge along there would also screen the  
8                   views of the adjacent hills, the riparian areas,  
9                   the open fields and --

10                   HEARING OFFICER FAY: And when you said  
11                   you could be flexible on that, can you describe  
12                   any criteria that would guide that flexibility?  
13                   Would it be in consultation with the City --

14                   MR. DONALDSON: Yes.

15                   HEARING OFFICER FAY: -- or the County  
16                   or what?

17                   MR. DONALDSON: I think both with the  
18                   City and the County, since both have input into  
19                   the trail system. Yes.

20                   And I think just a slight rewording of  
21                   the thing, too, to keep it from being so rigid as  
22                   far as absolutely no dense evergreen hedge would  
23                   be along there. I think it just needs to be  
24                   reworded, and I could suggest some wording for  
25                   that that would help, I think, improve the

1 flexibility of that.

2 HEARING OFFICER FAY: Okay. Will you be  
3 submitting anything, any language?

4 MS. WILLIS: If the Committee would  
5 direct us, we will.

6 MR. DONALDSON: I could certainly --

7 HEARING OFFICER FAY: I'd like to follow  
8 through on that thought. And, yes, if you would  
9 submit something to the record --

10 MR. DONALDSON: Sure.

11 HEARING OFFICER FAY: -- with what you  
12 have in mind, so that the Committee at least has,  
13 you know, some specific language.

14 MR. DONALDSON: Yes.

15 HEARING OFFICER FAY: We've got the  
16 flavor of it from you, but if you could deliver  
17 some specific language and serve it on all the  
18 parties, --

19 MR. DONALDSON: Sure.

20 HEARING OFFICER FAY: -- appreciate  
21 that.

22 MR. DONALDSON: Yeah. I think the idea  
23 there is that it meets the needs of maintaining  
24 views where appropriate through the area, and  
25 still providing the applicant the opportunity to

1 provide some screening along that area. That's  
2 the intent.

3 HEARING OFFICER FAY: All right.

4 PRESIDING MEMBER LAURIE: Mr. Donaldson,  
5 you testified that in your opinion a plume is  
6 indicative, people perceive a plume is indicative  
7 of industrial uses. Was that your testimony?

8 MR. DONALDSON: Yes.

9 PRESIDING MEMBER LAURIE: How familiar  
10 are you with Cisco's proposed project? Do you  
11 have any familiarity at all?

12 MR. DONALDSON: Yes, I reviewed the plan  
13 that they proposed, including architectural  
14 designs, elevations and placement of structures  
15 and so on, yes.

16 PRESIDING MEMBER LAURIE: Will that, to  
17 the extent that you know, would that project be  
18 creating any sort of plume from any use?

19 MR. DONALDSON: My understanding, and  
20 this is not a professional opinion, my  
21 understanding is that large buildings would have  
22 air conditioning or heating facilities that  
23 potentially could create small plumes. But I  
24 really don't know that.

25 PRESIDING MEMBER LAURIE: What about

1 their substation that they're going to have on  
2 site? Do you have any knowledge about the  
3 potential for that?

4 MR. DONALDSON: No, I do not.

5 PRESIDING MEMBER LAURIE: I guess what  
6 I'm trying to discern is that even in a high tech  
7 park some kind of plume can exist, and it's a  
8 question of degree and size, is that your point?

9 MR. DONALDSON: Yes, I guess the other  
10 point is here I'm looking at it from a CEQA  
11 perspective, from an existing baseline conditions  
12 perspective.

13 Right now there are no plumes in Coyote  
14 Valley. What we're talking about by introducing a  
15 power plant there is introducing, potentially  
16 introducing plumes to that area, so -- yeah.

17 PRESIDING MEMBER LAURIE: I was trying  
18 to get at your point that the people will perceive  
19 the plume as industrial. And I'm attempting to  
20 discern whether in most cases when you have high  
21 tech parks, such as Cisco, only as an example,  
22 when you also have plumes of some nature and some  
23 fashion.

24 MR. DONALDSON: I honestly don't know.  
25 I'm not familiar with how large those plumes would

1 be, how often they may occur, or what extent those  
2 would occur.

3 PRESIDING MEMBER LAURIE: Thank you,  
4 sir.

5 CHAIRMAN KEESE: I had one question,  
6 also, Mr. Donaldson. Most power plants have roads  
7 around them, or you can go around a power plant.  
8 I heard you apply a rather rigorous test, it seems  
9 to me, in going around this power plant which  
10 really almost doesn't have roads around it or  
11 anything.

12 Is there a power plant that wouldn't  
13 have a significant visual impact, applying the  
14 rigorous test you seem to have applied?

15 MR. DONALDSON: I would assume that,  
16 yes, there would be a power plant -- you mean in  
17 this location, or in some other --

18 CHAIRMAN KEESE: In a --

19 MR. DONALDSON: Anywhere?

20 CHAIRMAN KEESE: Yes.

21 MR. DONALDSON: Yeah, I would imagine  
22 that you could have a power plant that would not  
23 have a significant visual impacts on its context,  
24 yes.

25 CHAIRMAN KEESE: Is it fair to say was

1           that your determination in these cases that we  
2           didn't get into evidence here? Did you apply a  
3           rigorous approach to these alternatives in saying  
4           that there was no visual impact?

5                       MR. DONALDSON: The rigor of the  
6           application of visual analysis to the alternatives  
7           was not at the same level as it was for the, you  
8           know, for the Metcalf plant. Obviously, 100 pages  
9           of detail versus you know, six or eight pages, at  
10          the most, of detail.

11                      CHAIRMAN KEESE: Had the same rigor been  
12          applied might these have been found significant,  
13          also?

14                      MR. DONALDSON: I don't believe so. I  
15          spent a day driving around looking at all those  
16          from a variety of different locations, and spent  
17          quite a bit more time actually assessing the area  
18          from maps and aerial photos, and so on.

19                      It's my conclusion at this time that  
20          what's in the testimony for the alternatives is  
21          accurate.

22                      CHAIRMAN KEESE: Okay, thank you.

23                      HEARING OFFICER FAY: Well, we sort of  
24          interrupted you, Mr. Harris, but I think it's your  
25          turn for cross-examination.

1                   MR. SCHOLZ: Before you go forward did  
2 you accept the testimony?

3                   HEARING OFFICER FAY: Yes, --

4                   MR. SCHOLZ: I wanted to reserve a  
5 right. We don't know what the language is to the  
6 visual conditions of certification. They've been  
7 bandied about between what the applicant has asked  
8 to be changed. What are we considering here?

9                   PRESIDING MEMBER LAURIE: You may not  
10 know until you see a decision.

11                   HEARING OFFICER FAY: What you have on  
12 the record is both positions. They're advocating  
13 different conditions. Under some circumstances  
14 some of the conditions are different proposals  
15 from --

16                   MR. SCHOLZ: As parties to this case,  
17 how do we comment on the conditions of  
18 certification?

19                   PRESIDING MEMBER LAURIE: You comment to  
20 the proposed decision.

21                   HEARING OFFICER FAY: Well, and before  
22 that in their briefs. Your brief could reflect  
23 whether you favor one version or the other version  
24 or some --

25                   MR. SCHOLZ: Because I can just throw

1           this out, VIS10 was very important to the  
2           community. And we were very skeptical that VIS10  
3           was going to survive the Committee.

4                        But it didn't even survive a question  
5           from the applicant of the staff to delete the  
6           condition, you know, that the plant has to be shut  
7           down. That made it very palatable to the  
8           community. They knew if they couldn't meet what  
9           they have been telling everybody, the plant was  
10          going to shut down.

11                       And now it didn't even make it that far.

12                       HEARING OFFICER FAY: I understand, but  
13          to answer your question it's argument, and what  
14          you're telling us now ought to be included in your  
15          brief with all the arguments as to why. Okay?  
16          But it's on the record in both versions.

17                       MR. SCHOLZ: Thank you.

18                       HEARING OFFICER FAY: As modified by  
19          their comments here today.

20                       MR. AJLOUNY: Excuse me, I just have one  
21          quick question. How many minutes does the  
22          applicant have to cross-examine?

23                       HEARING OFFICER FAY: Well, Mr. Harris,  
24          how long do you need, give us an estimate.

25                       MR. HARRIS: Approximately ten minutes,

1 give or take. Maybe I'd better say 12.

2 Approximately ten minutes.

3 HEARING OFFICER FAY: All right, well,  
4 if we give you 15 minutes, that's five less than  
5 Mr. Ajlouny.

6 MR. HARRIS: I won't use 15 minutes, I'm  
7 sure.

8 HEARING OFFICER FAY: Okay.

9 MR. AJLOUNY: I guess the point I wanted  
10 to bring is that you didn't ask them about their  
11 cross-examination.

12 PRESIDING MEMBER LAURIE: Let me talk  
13 about that for a minute. It's not the question of  
14 how many minutes pass on the clock. I think you  
15 folks have a really great burden and a challenge,  
16 because this is a process very unique to no doubt  
17 what you've ever done before.

18 This process is not unique to either the  
19 Commissioners or the Hearing Officer. And we have  
20 a sense of what we're looking for as far as  
21 relevancy, and as far as priority, so that if you  
22 have somebody's testimony and you could ask 8000  
23 questions, well, you can't ask 8000 questions  
24 because you just can't do that. So you can ask 42  
25 questions, maybe. So you have to carefully

1 determine what those 42 questions are going to be.

2 And I think one of the challenges you  
3 folks face is that you have a lot of questions.  
4 The questions you have may not be consistent with  
5 our experiences as to what the primary priority  
6 critical questions are.

7 And so if you have an hour and a half of  
8 priority critical questions that focus on those  
9 important issues, I don't have any problem with  
10 that. The difficulty is that in most cases your  
11 time is spent on issues that may be of interest to  
12 you, and I understand that, but in our experience  
13 they don't go to the gut of the issues that we  
14 have to respond to in a decision.

15 So, when we see that happening we don't  
16 know when you're going to get to those, and that's  
17 why we place a limitation. We can't write your  
18 questions for you.

19 I can tell you in my experience I would  
20 very rarely cross-examine. There's just not much  
21 there. I can disagree with what a witness says,  
22 and then I'm free to argue that I disagree. And  
23 then I produce my own witness. But there's very  
24 little that you can actually get out of these  
25 witnesses in cross-examination that would be so

1 substantial as to tear somebody's testimony apart.

2 So, it's not just a question of minutes.

3 MR. AJLOUNY: Yeah, and, Commissioner, I  
4 respect that. And I know it might be frustrating  
5 for you because this is more routine and it is a  
6 new experience for us.

7 But a few comments. We don't have the  
8 money for bringing our own witness, so our only  
9 strength is we're going to kick at the knees if we  
10 can, in the sense of trying to tear apart  
11 testimony from the applicant. I mean that's the  
12 only defense we have, because in the society we  
13 live in, you know, we have responsibilities to our  
14 families, trying to keep our job and so forth. So  
15 we don't have that money.

16 PRESIDING MEMBER LAURIE: I understand  
17 that.

18 MR. AJLOUNY: And then the only other  
19 issues we have is because of the position you're  
20 in, and because of all the big pressures of this  
21 particular power plant, any little thing we see  
22 perceived as a bias towards the applicant is very  
23 sensitive to us.

24 So the fact that there is new evidence  
25 brought in. From the way I understand it, you do

1 a testimony and you give a brief, five-minute  
2 brief on what that testimony is, and then do  
3 cross-examination.

4 I didn't see that here displayed today.  
5 It upset me. And it was totally new and I didn't  
6 have a chance to cross-examine. I tried to bring  
7 that out, and it was like, you know, well point,  
8 but it just kept on going.

9 And that's, we're just kind of sensitive  
10 that any sense of bias-ness makes us sensitive.

11 HEARING OFFICER FAY: I don't blame you,  
12 I understand, because you don't want the project  
13 here, and so you're, you know, you're sensitive  
14 about that. And you see the political pressure  
15 building.

16 But I think you also have to keep in  
17 mind that regardless of those features, always,  
18 ever since the Warren Alquist Act was enacted into  
19 law, the burden of proof has been on the  
20 applicant.

21 That means that if the applicant doesn't  
22 make a good enough case, they lose. And --

23 MR. SCHOLZ: But they've never lost, so  
24 the burden is on us.

25 HEARING OFFICER FAY: And that's not

1 true. That's not true. I've written decisions  
2 that turned down power plants.

3 But, you know, the party that has the  
4 burden of proof we often give a little better  
5 chance to put on their case because they have to  
6 make that first threshold.

7 Anyway, let's move on. Mr. Harris has  
8 promised us a brief cross-examination.

9 MR. HARRIS: Yeah, I'll go quickly.

10 CROSS-EXAMINATION

11 BY MR. HARRIS:

12 Q Joe, do you have your rebuttal testimony  
13 in front of you -- Mr. Donaldson, your rebuttal  
14 testimony?

15 MR. DONALDSON: Yes, I do.

16 MR. HARRIS: Can you turn to page 2,  
17 under 4, combination of views, the second full  
18 paragraph, the last sentence it says: Therefore  
19 it would be correct to state that the FSA  
20 concluded that the project would not have a  
21 significant visual impact on 8 of the 11 views  
22 analyzed." Do you see that line?

23 MR. DONALDSON: Yes, I do.

24 MR. HARRIS: I don't want to quibble  
25 with you too much, but it's my understanding that

1           there were 11 views to begin with, is that  
2           correct?

3                     MR. DONALDSON:   Eleven KOPs.

4                     MR. HARRIS:   KOPs, I'm sorry, you're  
5           correct.  And that two of those KOPs were dropped,  
6           is that correct?

7                     MR. DONALDSON:  No, that's not correct.

8                     MR. HARRIS:   Well, let's talk about  
9           that, then.

10                    MR. DONALDSON:  Okay.

11                    MR. HARRIS:   KOP along Fisher Creek, I  
12           think is number 7,--

13                    MR. DONALDSON:  Correct.

14                    MR. HARRIS:   You began an analysis on  
15           that but did not conclude that analysis.  Clarify  
16           for me the two views that were --

17                    MR. DONALDSON:  Yes, the two views I  
18           think you're referring to are the views from  
19           Fisher Creek corridor --

20                    MR. HARRIS:   And for --

21                    MR. DONALDSON:  -- trails --

22                    MR. HARRIS:   -- overpass.

23                    MR. DONALDSON:  -- and the other one is  
24           the overpass as the main entry into the --

25                    MR. HARRIS:   My understanding that --

1 well, I'm sorry, I should let you answer, I'm  
2 sorry.

3 MR. DONALDSON: Those are the two.

4 MR. HARRIS: I'm sorry, I didn't mean to  
5 cut you off.

6 Were they excluded from your analysis or  
7 were they done to a certain level and then left  
8 out, or --

9 MR. DONALDSON: If you look into the FSA  
10 they're both analyzed. What I stopped short of,  
11 though, was determining the level of significance.  
12 So there's a full analysis in there; they were not  
13 dropped from the analysis.

14 MR. HARRIS: Okay, let me come at it  
15 another way.

16 MR. DONALDSON: Yes.

17 MR. HARRIS: I was going to say eight  
18 out of nine. Yours says eight out of 11, but can  
19 we agree that there's only one where there's a  
20 finding of significance, and that's KOP1? And  
21 then I'll move on --

22 MR. DONALDSON: KOP1 of the 11 KOPs  
23 analyzed, only one had a finding of significance.

24 MR. HARRIS: Okay, thank you. I'll move  
25 on.

1 MR. DONALDSON: Okay.

2 MR. HARRIS: On the issue of combination  
3 of views, it's in your testimony and also your  
4 rebuttal testimony, which views were combined  
5 here? First off, it's my understanding that you  
6 didn't simply just combine the KOPs, is that  
7 correct?

8 MR. DONALDSON: That is correct. It was  
9 a combination of the KOPs along with looking at a  
10 variety of other areas, realizing that KOPs are  
11 specific points within a broader context of views.

12 MR. HARRIS: Okay, thank you. Can you  
13 identify in your testimony where those other views  
14 that you combined are set forth?

15 MR. DONALDSON: I believe I described in  
16 the testimony for the combination of views that it  
17 is the combination of views for the KOPs, as well  
18 as other areas around there, other roads, in other  
19 words, other portions of take an example, highway  
20 101. The KOPs taken from one specific point of  
21 highway 101.

22 But the combination of views we consider  
23 the view corridor all the way along highway 101,  
24 and there is high visibility of the plant from a  
25 variety of other areas.

1 MR. HARRIS: How many views were  
2 combined, then?

3 MR. DONALDSON: An infinite number of  
4 views. I mean you can't -- I mean, you know, we  
5 have a line, how many points are on a line, I  
6 don't know.

7 MR. HARRIS: And which views were  
8 combined?

9 MR. DONALDSON: You asked me that and I  
10 said that the KOPs and all of the other views  
11 within the area from travel routes, from  
12 businesses, from residences and so forth.

13 MR. HARRIS: So let me ask it another  
14 way. What types of views were combined? To be  
15 more specific, were there residential views,  
16 recreation views, traveler views?

17 MR. DONALDSON: Yes, all of those are  
18 stated in the FSA, views from businesses, views  
19 from recreational areas, views from trails, views  
20 from other roads, as well as all the points that  
21 include the KOPs --

22 MR. HARRIS: Okay, --

23 MR. DONALDSON: -- and the areas  
24 surrounding those.

25 MR. HARRIS: Okay, I'm sorry, I need to

1 let you finish. I'm excited, I guess. I'll try  
2 to slow down -- or tired.

3 You mentioned an infinite number of  
4 views. Do you have before you figure 8.1-1BR,  
5 which was passed out earlier as part of Tom  
6 Priestley's testimony? I have extra copies if you  
7 need it, or if other folks need it.

8 This is basically the document that  
9 shows the KOPs. Do you have that document before  
10 you?

11 MR. DONALDSON: If you're talking about  
12 this map, yes.

13 MR. HARRIS: Okay. I want you just to  
14 think of this map as everything north of the  
15 Metcalf site and everything south of the site,  
16 just for purposes of my questions. Do you have  
17 that in mind?

18 MR. DONALDSON: Yes.

19 MR. HARRIS: With regard to everything  
20 north of the Metcalf Energy Center, can you  
21 identify the views that were combined in your  
22 analysis there?

23 MR. DONALDSON: That would be views  
24 along the portions of Monterey Highway; views from  
25 the railroad tracks; views from Parkway Lakes;

1 views from --

2 MR. HARRIS: I'm sorry, let me ask you  
3 questions about those individually, then. The  
4 views along Monterey Highway, does that mean the  
5 entire length of Monterey Highway?

6 MR. DONALDSON: The entire length that  
7 have views of the plant, where the plant would be  
8 visible from.

9 MR. HARRIS: Okay, can you show me on  
10 this map along Monterey Highway the views that you  
11 combined?

12 MR. DONALDSON: The plant is visible for  
13 a fair distance of Monterey Highway. In fact,  
14 it's visible from KOP6, Monterey Highway runs  
15 along that area, so as you're driving south you  
16 actually would have views of the plant from that  
17 direction.

18 MR. HARRIS: Are you connecting the dots  
19 here, then, is that what you're doing essentially?

20 MR. DONALDSON: Yes.

21 MR. HARRIS: Driving from --

22 MR. DONALDSON: Yes.

23 MR. HARRIS: -- one KOP to another KOP?

24 MR. DONALDSON: Well, yes, yes, the idea  
25 is that similar to what the Forest Service and BLM

1 and other federal agencies do in analyzing views,  
2 they may take a series of points such as from a  
3 campground or particular overlook, but they also  
4 consider the views from a roadway, which would  
5 have an infinite number of points along that  
6 roadway from which you could view something.

7 MR. HARRIS: Okay, --

8 MR. DONALDSON: So the concept is you're  
9 looking at the views from linear facilities, as  
10 well as areas, as opposed to a KOP. I think that  
11 maybe the issue here is that we tend to look at  
12 KOPs from the standpoint of there's a photograph  
13 and it says this photograph represents the view.  
14 Whereas if you move 15 feet from one side or 15  
15 feet to the other side, you might actually get a  
16 different, slightly different perspective.

17 MR. HARRIS: So, are --

18 MR. DONALDSON: The same as if you drove  
19 up or down a highway you would get a different  
20 perspective as you travel that highway or road or  
21 rail line or whatever.

22 MR. HARRIS: My 12 minutes may not be  
23 sufficient at this rate, but I'll try to not cut  
24 you off, and try to focus you, if I can.

25 MR. DONALDSON: I was just trying to

1 help you understand.

2 MR. HARRIS: I appreciate that. I'm  
3 back to the whole concept of infinite number of  
4 views.

5 So do you have in your testimony field  
6 notes or other notes that would describe the  
7 routes you took in gathering this infinite number  
8 of views that you were combining?

9 MR. DONALDSON: I drove throughout the  
10 area, probably within the viewshed I think I drove  
11 up and down every road at least once.

12 MR. HARRIS: When you were driving up  
13 and down the roads you were gather infinite views  
14 for the combination, is that correct?

15 MR. DONALDSON: Well, yes. I was  
16 looking to see if I could see the power plant site  
17 from those areas, yes.

18 MR. HARRIS: So then is this infinite  
19 combination of views then essentially your  
20 windshield tour of the surrounding area, is that  
21 correct?

22 MR. DONALDSON: Yes, through -- yeah,  
23 through several site visits and a fair bit of  
24 driving and getting out of the car and looking  
25 from a variety of viewpoints.

1                   MR. HARRIS:  So it's your testimony,  
2                   excepting out now KOP1, because we're not going to  
3                   talk about that, but that although you found no  
4                   significant impacts at the other 11 KOPs, that  
5                   from the windshield tour, if you will, of this  
6                   area you combined those views into a finding of  
7                   significance under CEQA?

8                   MR. DONALDSON:  Maybe we're missing a  
9                   connection here.  But, the visual quality of those  
10                  11 KOPs is actually identified as moderately high  
11                  or moderate for all 11, 11 out of 11 KOPs,  
12                  according to my analysis.

13                  MR. HARRIS:  I'm really just trying to  
14                  get at the basis for your conclusion of how you  
15                  combined these views.  And I do understand, thank  
16                  you for referring me to the table with the various  
17                  views, but is it a correct statement that the  
18                  combination of views is essentially a result of  
19                  your traverses up and down roads and highways  
20                  along this area?

21                  MR. DONALDSON:  Yes, including -- yes,  
22                  including looking at the KOPs, yes.

23                  MR. HARRIS:  How many times did you go  
24                  out and drive these various KOPs, or various  
25                  routes with these views that were combined?

1                   MR. DONALDSON: I'd say at least four,  
2 possibly six different times. Somewhere between  
3 four and six.

4                   MR. HARRIS: Four and six for each one  
5 of these --

6                   MR. DONALDSON: No.

7                   MR. HARRIS: -- sets of combinations of  
8 views, --

9                   MR. DONALDSON: No.

10                  MR. HARRIS: -- or four to six for  
11 Monterey Highway? I'm having trouble figuring --  
12 I want to know when were you out there. Can you  
13 tell me how many times you visited this first set  
14 of views you're combining on Monterey Highway?

15                  MR. DONALDSON: I've driven up and down  
16 Monterey Highway numerous times, probably five or  
17 six times.

18                  MR. HARRIS: Okay, and that's the basis  
19 for your combination. What other areas were you  
20 driving? I want to -- basically there's nothing,  
21 let me ask you, is there anyplace in your  
22 testimony where you describe your traverses for  
23 these views that you've combined?

24                  MR. DONALDSON: I believe that where I  
25 actually describe the dates or the actual routes

1           that I traveled around. No, I don't believe I  
2           specifically say which route I traveled or what  
3           day I traveled that particular route.

4                       MR. HARRIS: So there are on field notes  
5           or other kind of documentation about which days  
6           you were on Monterey Highway and which days on 101  
7           and that kind of --

8                       MR. DONALDSON: I could probably go back  
9           through my records and assemble that information  
10          if that seemed really important to you.

11                      MR. HARRIS: I guess what I'm trying to  
12          get at is I'm trying to figure out, number one,  
13          which views you combined. And from your testimony  
14          I'm having trouble understanding that.

15                      And then I also want to understand, once  
16          I figure out which views you've combined in this  
17          infinite string, which ones you went over several  
18          times, which ones you drove down once. Those kind  
19          of things. Is that kind of evidence available in  
20          your testimony?

21                      MR. DONALDSON: I don't believe it is.

22                      MR. HARRIS: Okay, thank you.

23                      MR. DONALDSON: In terms of precise --  
24          you're asking for precise numbers, how many times  
25          I drive north on highway 101, how many times I

1 drive south, is that what you're asking, precise  
2 numbers? Because I don't have those numbers.

3 MR. HARRIS: I guess what I'm asking is  
4 taking the windshield tour and combining views as  
5 you drove up and down 101, I'm interested in  
6 knowing how many times you did that. Was it one  
7 time up 101? Was it several times? And I think  
8 you answered the question.

9 MR. DONALDSON: I did, yes.

10 MR. HARRIS: You didn't have -- that's  
11 what I was driving at, so no pun intended, sorry.

12 MR. DONALDSON: Okay.

13 MR. HARRIS: Let me move on. Have you  
14 seen a plume from the IBM facility on Bailey Road  
15 associated with the wet cooling tower there?

16 MR. DONALDSON: No, I have not.

17 MR. HARRIS: You have never personally  
18 observed that?

19 MR. DONALDSON: I have not, no.

20 MR. HARRIS: Okay. I want to talk about  
21 the design of 20 degrees F and 100 percent  
22 relative humidity.

23 Do you know of any plants that have been  
24 designed to that standard?

25 MR. DONALDSON: I personally do not.

1                   MR. HARRIS: Do you even know if it's  
2 possible to design a facility to meet that  
3 standard?

4                   MR. DONALDSON: Wouldn't this be a  
5 better line of questioning to ask Will?

6                   MR. HARRIS: If that's more appropriate,  
7 sure.

8                   MR. DONALDSON: He's the technical  
9 expert.

10                  MR. HARRIS: Whoever on the panel is  
11 available to answer that question.

12                  MR. WALTERS: I believe your own folks  
13 have said for the record that dry cooling would,  
14 in fact, get that done. In terms of a hybrid  
15 system, I actually did try to get some information  
16 from vendors, but due to the fact that I didn't  
17 know you were going to have this question, I  
18 wasn't able to get it.

19                  I would make the assumption that it  
20 probably could be done. Whether or not it would  
21 be very easy or would fit in the footprint of your  
22 current plant, I can't say.

23                  MR. HARRIS: So you didn't perform that  
24 analysis whether it would fit within this current  
25 plant, is that correct?

1                   MR. WALTERS: No, I don't have the  
2                   technical data to know if it would fit.

3                   MR. HARRIS: Thank you. I want to go  
4                   back to page 7 of Mr. Donaldson's testimony,  
5                   rebuttal testimony, actually. Talking about  
6                   cumulative impacts in this section. Do you have  
7                   that before you?

8                   MR. DONALDSON: Yes, I do.

9                   MR. HARRIS: Reading about halfway down  
10                  in that paragraph, on page 7, your testimony is --  
11                  or is it your testimony as follows: Because the  
12                  power plant would have significant visual impacts  
13                  it would also contribute to a cumulative impact."  
14                  Is that your testimony?

15                  MR. DONALDSON: That is written here,  
16                  yes. That is my testimony.

17                  MR. HARRIS: Is it also then not true,  
18                  if the Committee disagrees with you and decides  
19                  that there are no significant visual impacts, you  
20                  have that hypothetical in mind?

21                  MR. DONALDSON: I'm hearing what you're  
22                  saying.

23                  MR. HARRIS: Okay, assume for the  
24                  purposes of my question that the Committee  
25                  disagrees with you and decides that there are no

1 significant visual impacts.

2 MR. DONALDSON: Okay.

3 MR. HARRIS: Isn't it then true, using  
4 your statement, that it would also be correct that  
5 if there are no significant visual impacts then  
6 the project would not contribute to cumulative  
7 impacts, isn't that correct?

8 MR. DONALDSON: No, that's not correct.

9 MR. HARRIS: And is this your statement  
10 in the testimony that the fact that there is a  
11 significant visual impact means that it  
12 contributes to the cumulative impact, is that not  
13 your testimony?

14 MR. DONALDSON: What I wrote was because  
15 the power plant would have significant visual  
16 impacts, it would also contribute to the  
17 cumulative impact.

18 MR. HARRIS: So, if, again assuming that  
19 there are no significant visual impacts as  
20 determined by the Committee, it's also a true  
21 statement, is it not, that the power plant in that  
22 sense would not contribute to a cumulative impact?

23 MR. DONALDSON: I might be losing your  
24 question a little bit here, but maybe we're  
25 misunderstanding your -- maybe you're

1           misunderstanding the idea of cumulative impacts.

2                       Cumulative impacts can occur even if  
3           there are no significant impacts. That's CEQA's  
4           definition. You can have, you know, a variety of  
5           impacts that are not considered significant, and  
6           yet you can still have a cumulative impact.

7                       MR. HARRIS: Okay, well, let's deal  
8           specifically with this project then, with that  
9           CEQA lesson in mind.

10                      Assume, again for my purposes of my  
11           hypothetical, that there are no significant visual  
12           impacts for the power plant. In what ways could  
13           you still determine that there's a significant  
14           cumulative impact.

15                      MR. DONALDSON: I think when you look at  
16           the project, the proposed project, the power  
17           plant, in combination with other nearby proposed  
18           projects, which is what CEQA identifies, and in  
19           this case we'd be looking at the Cisco development  
20           and the urban reserve area developing, when you  
21           look at the combination of those projects and the  
22           effects on the visual environment, the impact to  
23           the rural character, the reduction in visual  
24           quality throughout the area, I think you can  
25           conclude even if none of the impacts were

1           determined to be significant for the Metcalf  
2           project, that in fact the cumulative impact and  
3           the contribution of the power plant to the  
4           cumulative impact, in combination with those other  
5           projects, could be significant.

6                       MR. HARRIS:   Okay, let me ask the  
7           question a different way.  Assume again that there  
8           are no significant visual impacts associated with  
9           the project, as determined by the Committee.  Do  
10          you have that assumption in mind?

11                      HEARING OFFICER FAY:  We've been over  
12          this quite a few times.

13                      MR. HARRIS:  He hasn't answered my  
14          question, so let me try to rephrase it one last  
15          time.

16                      HEARING OFFICER FAY:  Okay, one last  
17          time.

18                      MR. HARRIS:  Is it your testimony that  
19          if the Metcalf Energy Center has mitigated all of  
20          its visual impacts to a level of less than  
21          significant, that it would nevertheless contribute  
22          to a significant cumulative impact in the valley?

23                      MR. DONALDSON:  I believe from the  
24          evidence, from my analysis and so forth, that,  
25          yes, it would contribute to a significant

1 cumulative impact. Yes.

2 MR. HARRIS: Is that based on the  
3 relative scale -- let me talk about scale, then,  
4 in that cumulative impacts analysis. The Metcalf  
5 project is approximately 20 acres. The Cisco  
6 project, I believe, is about 668 or something like  
7 that. I think the entire area is over 1000 acres.

8 MR. DONALDSON: The answer is no, if  
9 you're -- you're asking scale -- I'm sorry --  
10 pardon me.

11 MR. HARRIS: Is it your testimony then  
12 that just based on acreage, that a 20-acre impact  
13 is the same as a 680-acre impact?

14 MR. DONALDSON: That's very  
15 hypothetical. I mean how can you, you know, you  
16 can't determine 600 megawatt power plant and --

17 PRESIDING MEMBER LAURIE: I think his  
18 testimony is that it would --

19 MR. DONALDSON: -- certain height --

20 PRESIDING MEMBER LAURIE: -- add to the  
21 cumulative impact.

22 MR. DONALDSON: That's correct.

23 HEARING OFFICER FAY: One more, Mr.  
24 Harris?

25 MR. HARRIS: I'll make it a really good

1 one, I'll stop at that point.

2 HEARING OFFICER FAY: Okay. Thank you.  
3 I do have a followup question. And in spite of  
4 Commissioner Laurie's admonition I'm going to risk  
5 asking about KOP1.

6 Can I assume, and I understand that the  
7 staff found that to have a significant impact, but  
8 is it correct to assume that that really is a  
9 vicinity rather than a specific location?

10 MR. DONALDSON: Yes. And I think that  
11 what you've hit on here is the -- probably the  
12 reason that we appear to have disagreement between  
13 Tom's testimony and my approach, my analysis. Is  
14 that I think that analysis has been very specific  
15 to a point, to a location, and specifically the  
16 same, these are views from residences.

17 I've interpreted that idea of a KOP, and  
18 interpreted the idea of views a little bit more  
19 broadly, in that particularly from residences  
20 people do move in and out of the residence, they  
21 move around their residence, they go down to the  
22 mailbox, they drive down the road, they walk down  
23 the road, and so forth.

24 In this particular area you do have six  
25 residences, people do walk up and down the road

1 quite often. They have long duration views. They  
2 have, you know, very frequent views, also. And  
3 there are sensitive viewer groups.

4 So, yes, yes.

5 HEARING OFFICER FAY: All right, and how  
6 far -- in KOP1 would it include backing up and  
7 going southeast enough to encompass the view from  
8 the proposed Cisco campus? Or is that really  
9 outside the vicinity of KOP1?

10 MR. DONALDSON: Well, I was focused on  
11 the residential area, itself. And so I didn't  
12 really look at the Cisco development. I did in my  
13 original analysis, but backed off of that because  
14 of the baseline condition requirement in CEQA  
15 which didn't want to look at a future development.

16 HEARING OFFICER FAY: All right, thank  
17 you. Then, Mr. Ajlouny.

18 MR. AJLOUNY: Mollie, do you --

19 HEARING OFFICER FAY: Or, the City?

20 MS. DENT: I don't have any questions  
21 for the CEC witnesses, thank you.

22 HEARING OFFICER FAY: Okay.

23 MR. AJLOUNY: Okay, I'll try to set my  
24 watch here. Okay.

25 CROSS-EXAMINATION

1 BY MR. AJLOUNY:

2 Q I want to focus in on, first of all, I  
3 heard the word dry cooling. Again, to emphasize,  
4 dry cooling would not create a plume at all?

5 MR. DONALDSON: I'm going to have to  
6 give that over to --

7 MR. AJLOUNY: I don't know, whoever can  
8 answer.

9 MR. WALTERS: That is true, you would  
10 not have a plume with dry cooling.

11 MR. AJLOUNY: Okay. And as far as  
12 staff's concerned, when an applicant brings a  
13 project forward, is it their job to suggest to use  
14 different technologies, or is their job to look at  
15 like what criteria they need to meet? Maybe  
16 that's for Gary, since he's staff.

17 MR. WALKER: Is it staff's job to look  
18 at different ways to reduce impacts, is that what  
19 you're saying?

20 MR. AJLOUNY: Well, I mean would it be  
21 proper for staff to come back and say, you know,  
22 no plumes are wanted because the City, the  
23 neighbors and all this issue, so you've got to use  
24 dry cooling? Or would that not be appropriate for  
25 the staff to say technologies --

1                   MR. WALKER: No, we do look at  
2                   alternative technologies as a means of mitigating  
3                   impacts. The question in regard to dry cooling on  
4                   this location we did specifically ask in a data  
5                   request of the applicant about that. And their  
6                   response was that they could not fit dry cooling  
7                   onto their site.

8                   MR. AJLOUNY: So, would you consider  
9                   that, you know, I guess what I'm saying -- how do  
10                  I say this -- because of the size of the site it's  
11                  not possible?

12                  MR. WALKER: Yes.

13                  MR. AJLOUNY: But the fact is a plume is  
14                  an issue to the staff?

15                  MR. WALKER: Yes, certainly.

16                  MR. AJLOUNY: Okay. So I guess where I  
17                  want to focus in on is knowing the plume is an  
18                  issue for a lot of people, I really was concerned  
19                  when the staff suggested not to shut down the  
20                  plant if a plume was there.

21                  Why would you have, I guess -- that  
22                  surprised me when I saw the rebuttal that I think  
23                  the words were, and I don't know if it was you,  
24                  Gary, or someone else said they'd consider  
25                  removing that one part about shutting down the

1 plant.

2 Who was that that said that?

3 MS. WILLIS: Do you have a question?

4 MR. AJLOUNY: Yes. Who was that that  
5 said that? And then I'll --

6 MR. DONALDSON: It's in my testimony.

7 MR. AJLOUNY: Okay. Why did you state  
8 that? I mean what would lead you to that when  
9 there's all this concern about plume?

10 MR. DONALDSON: Well, I think the way we  
11 discussed it and thought about that particular  
12 requirement, that it was perhaps too stringent.  
13 There is still the requirement that the applicant  
14 can be fined rather heavily if there is a plume.  
15 And there is still the intent there to reduce  
16 those plumes to a very low number. Those  
17 requirements are not going away.

18 So we're still holding to the  
19 requirements to absolutely minimize the plume.  
20 But we felt that we could accomplish that through  
21 the design parameters that were being specified in  
22 VIS10, condition of certification VIS10.

23 And we felt that we could, along with  
24 the system of fines that the Commission uses, that  
25 that would be an appropriate hammer, if you will,

1 to maintain that.

2 So the combination of the design  
3 parameters and the fine system would be adequate  
4 to enforce that condition.

5 MR. AJLOUNY: Okay. Well, --

6 MR. WALKER: Yeah, I guess I could  
7 expand on that a little bit. We conferred about  
8 the feasibility of the mitigation and concluded  
9 that if they met the more stringent design  
10 parameters that we recommended in our changes to  
11 the condition, that the plume occurrence, just by  
12 the fact if their plant satisfied those standards,  
13 would be an extremely rare occurrence. And  
14 essentially could meet the condition.

15 MR. AJLOUNY: So that's where I was  
16 getting at, I'm glad you -- so you're saying that  
17 if the 20 degrees 100 percent humidity was reached  
18 technically, the chance of plume is almost nil  
19 looking at the history of the weather and  
20 temperature?

21 MR. WALKER: That's correct.

22 MR. AJLOUNY: Okay, so now I'm  
23 understanding. So you basically are saying if you  
24 make this technology then there's really not  
25 reason to believe there's going to be a plume, but

1 the 30/90 would give you a reason, a good chance  
2 of a plume because it --

3 MR. WALKER: Not just a good chance of a  
4 plume, but a chance of exceeding the requirements  
5 of the condition.

6 MR. AJLOUNY: Okay. So you feel very  
7 strongly about the 20/100? I mean whoever.

8 MR. WALKER: I'd ask Will to get in on  
9 this.

10 MR. WALTERS: We feel strongly that that  
11 is a conservative number that will meet the  
12 condition.

13 MR. AJLOUNY: Okay. Or dry cooling?

14 MR. WALTERS: Dry cooling would  
15 certainly meet a no-plume condition, much less the  
16 current VIS10 condition.

17 MR. AJLOUNY: So, it's --

18 MR. WALKER: But the condition doesn't  
19 say meet a standard or use dry cooling. That's  
20 not a requirement. They don't have the  
21 alternative option --

22 MR. AJLOUNY: Okay, so I guess what I  
23 want to -- and I won't say any more -- want to  
24 focus in on it sounds like from staff, because I  
25 was highly disappointed, as a neighbor, but what

1 I'm hearing is as long as they can make the  
2 technology 20/100, you'll be happy because from  
3 your experience and your experts' testimony, there  
4 won't be a plume?

5 MR. WALKER: There won't be a plume that  
6 will exceed the parameters set in the condition.

7 MR. AJLOUNY: Okay. So in hearing from  
8 the applicant that that's not possible, I think I  
9 heard that you don't technically agree? It might  
10 be hard, but it is possible? Someone said it.

11 MR. WALTERS: Well, in terms of  
12 technical ability to do it, I think it is  
13 possible. It's just a question of how much dry  
14 versus how much wet. Basically you just look at  
15 the psychometric chart and you realize how much of  
16 each amount of cooling you would have to do.  
17 Whether or not it fits in the current design  
18 parameters of wet/dry systems that are around, I  
19 can't tell you.

20 That is obviously what -- or I say, in  
21 my opinion is probably what the applicant is  
22 asking of the vendors right now, can they do that  
23 based on their current wet/dry systems.

24 And, again, I don't know or have the  
25 ability to know what the range of the current

1 wet/dry systems are, whether you could build a  
2 wet/dry system that could achieve this. I think  
3 you could.

4 MR. AJLOUNY: Okay, so your answer --

5 MR. WALTERS: That's just my opinion at  
6 this point. I have actually tried to get that  
7 information from a vendor and I have not  
8 successfully gotten it yet.

9 MR. AJLOUNY: Okay, so hypothetically,  
10 or really a good chance, if this 20/100 takes more  
11 space and there's not enough room, do you have any  
12 expert opinion of which technology would be better  
13 if they have the same issue of space, dry cooling  
14 versus this 20/100? Do you have any opinion on  
15 that?

16 MR. WALTERS: Not at this time, no.

17 MR. AJLOUNY: Okay. I think I drove  
18 that home enough. I appreciate that.

19 These other questions, I have a number  
20 of them, won't take this long.

21 Okay, would you agree that building a  
22 power plant without any stacks showing like I  
23 think that number was 35, would be less  
24 significant visually than one showing stacks? Did  
25 I say that right?

1 HEARING OFFICER FAY: Less impact?

2 MR. AJLOUNY: I mean less visual impact  
3 than one showing stacks.

4 CHAIRMAN KEESE: That is the one the  
5 City didn't want?

6 MR. AJLOUNY: You know what, things have  
7 changed. And I think that's hearsay now, you  
8 know, I mean that's personally my feeling. So I  
9 want to --

10 SPEAKER: They gave you that impression,  
11 and that's why I wanted to ask --

12 MR. AJLOUNY: Yeah, --

13 HEARING OFFICER FAY: Wait, wait, wait,  
14 he's just trying to identify --

15 MR. AJLOUNY: I know, but --

16 HEARING OFFICER FAY: -- what example  
17 you mean.

18 MR. AJLOUNY: -- there's a lot of --

19 HEARING OFFICER FAY: We're getting off  
20 track.

21 MR. AJLOUNY: I know, and we don't want  
22 to, but --

23 HEARING OFFICER FAY: Stacks showing  
24 versus nonshowing.

25 MR. AJLOUNY: Yeah, and that's why I

1 want to get to the facts, because there's other  
2 things said, and that's where these emotions come  
3 from.

4 So, the point is stacks showing versus  
5 no stacks showing, would one be less significant  
6 than the other?

7 MR. DONALDSON: I would say potentially  
8 they could both be significant, but for two  
9 different reasons.

10 MR. AJLOUNY: Oh, okay.

11 MR. DONALDSON: Okay? This design  
12 potentially, I mean --

13 HEARING OFFICER FAY: When you say this?

14 MR. DONALDSON: I'm referring to picture  
15 number 35 in the applicant's handout from earlier,  
16 and the one that's up there behind Ken.

17 One of the difficulties with that design  
18 from a visual perspective is the screen goes all  
19 the way up to the top, and it creates a much  
20 greater sense of mass and a much greater sense of  
21 height, mass, bulk. And from that standpoint I  
22 would say it's visually highly, you know, visually  
23 impacting.

24 MR. AJLOUNY: Okay.

25 MR. DONALDSON: A power plant that has

1       stacks revealed indicates that it's an industrial  
2       facility, and we're talking in the context of a  
3       rural environment here, that, you know, for that  
4       reason then the change in -- the substantial  
5       change in visual character could also be  
6       significant.

7                        So, for two different reasons either one  
8       could be, depending on where you're looking at it  
9       from, you know, how close you are, and so on.

10                      MR. AJLOUNY:  Okay, great.  I want to  
11       try to keep on going here.  Cisco substation was  
12       mentioned earlier by one of, I think, the  
13       Commissioners.  And as I understand it, that  
14       substation is with transformers.  Is that the way  
15       you understand it, whoever answered that, or knows  
16       about the Cisco?

17                      MR. DONALDSON:  Quite honestly I don't.  
18       I don't know about the substation.

19                      PRESIDING MEMBER LAURIE:  The testimony  
20       was that they didn't know.

21                      MR. DONALDSON:  Yeah.

22                      MR. AJLOUNY:  And, Gary?  Okay.

23                      MR. WALKER:  I'm not aware of a  
24       substation, per se.

25                      MR. AJLOUNY:  Okay.  All right.

1                   MR. DONALDSON: Again, to clarify, my  
2 analysis was based on baseline conditions,  
3 existing conditions.

4                   MR. AJLOUNY: Okay.

5                   MR. DONALDSON: So I didn't go into --

6                   MR. AJLOUNY: Are you familiar with the  
7 Metcalf substation sitting there?

8                   MR. DONALDSON: Oh, yes.

9                   MR. AJLOUNY: And those are  
10 transformers. Are you aware of any plume coming  
11 out of there?

12                   MR. DONALDSON: The Metcalf substation?

13                   MR. AJLOUNY: Yeah.

14                   MR. DONALDSON: I'm not aware of a  
15 plume.

16                   MR. AJLOUNY: Okay, and I would assume  
17 then Cisco's little substation probably would be  
18 the same result, could you assume that?

19                   MR. DONALDSON: I have no idea.

20                   MR. AJLOUNY: Okay. Well, trying to  
21 make a point here.

22                   Have any AFCs been approved with no  
23 visual impacts, Gary? I guess you're the one, or  
24 whoever?

25                   MR. WALKER: I suppose I have the most

1 length of experience about that. With no visual  
2 impacts? You mean with no significant visual  
3 impacts?

4 MR. AJLOUNY: Yeah, I'm not good with  
5 the words, you know, the significant word.

6 MR. WALKER: Yes, most AFCs staff has  
7 found no significant impacts.

8 MR. AJLOUNY: So this power plant, being  
9 significant visual impacts, is kind of like  
10 unusual?

11 MR. WALKER: Yes, it's not unique, but  
12 it --

13 MR. AJLOUNY: Okay.

14 MR. WALKER: -- yes.

15 MR. AJLOUNY: Okay, so I want to focus  
16 in on one thing that was previous testimony in  
17 land use. In land use, land use was a done deal.  
18 Basically the City said no, and so the applicant  
19 wasn't going to argue with that, but they used the  
20 word compatible, they wanted to prove that it's  
21 still compatible.

22 And I want to know from your expert  
23 testimony, seeing that it is visually  
24 significantly impacted, would that make it  
25 compatible to using that land, you know what I

1 mean, touching on that piece? And I don't mean to  
2 get into land use, but that was a piece a few  
3 days, you know, a few weeks ago that the applicant  
4 talked about, compatibility.

5 Do you have any feelings on that, or if  
6 this power plant is compatible with that land?

7 MR. DONALDSON: I can attempt an answer  
8 at that. I think they're two different  
9 definitions of compatibility. In one case, land  
10 use is looking at particular types of uses that  
11 are compatible with the designated use.

12 The other look at it would be from a  
13 visual perspective, which is is something  
14 compatible with its surroundings, from a visual  
15 perspective.

16 So, I think -- my perspective is it  
17 would be two different definitions of the term  
18 compatibility.

19 MR. AJLOUNY: Well, in the second one  
20 versus visual, would you say that it's not  
21 compatible with that land use?

22 MR. DONALDSON: With the surrounding --

23 MR. AJLOUNY: Yes.

24 MR. DONALDSON: The power plant, as  
25 proposed, would it be compatible with the

1 surrounding land uses? It's not an either/or  
2 thing. It's a scale of things. And I would say  
3 it has a tendency to be not very compatible --

4 MR. AJLOUNY: Okay.

5 MR. DONALDSON: -- because of the type  
6 of use it is, it's appearance and --

7 MR. WALKER: And, --

8 MR. AJLOUNY: Yes.

9 MR. WALKER: -- since I've done both  
10 land use and visual analyses on a number of  
11 projects, staff considers potential significant --  
12 well, significant impact, especially unmitigable  
13 impacts in several different technical areas to  
14 contribute to the incompatibility in terms of land  
15 use. And in this particular case because of  
16 significant visual impacts of the project, it  
17 contributed to finding that from a land use  
18 perspective it's not compatible.

19 MR. AJLOUNY: Okay, great, and that's  
20 the key word I wanted to get out, is compatible.

21 HEARING OFFICER FAY: Is that it, or --

22 MR. AJLOUNY: Wait, --

23 HEARING OFFICER FAY: -- your last  
24 question? You're over time.

25 MR. AJLOUNY: You know what, my clock

1 didn't start --

2 HEARING OFFICER FAY: Okay, last  
3 question.

4 MR. AJLOUNY: Let me start it over --  
5 no, I got three more, I think. Three more and --

6 HEARING OFFICER FAY: Can you cover it  
7 in one? Take the best one, --

8 MR. AJLOUNY: No, please, --

9 HEARING OFFICER FAY: -- because I want  
10 your mates to be able to have a chance to ask some  
11 questions, too.

12 MR. AJLOUNY: Well, they will. We just  
13 have a few left. Now you've messed me up, darn  
14 it. Let me see.

15 Okay, let me ask two -- can I ask two,  
16 please?

17 HEARING OFFICER FAY: All right, --

18 MR. AJLOUNY: Thanks. Has this project  
19 been consistent in the way you analyzed, I think  
20 the word is analyzed, these projects that, you  
21 know, AFCs, have you done everything consistently  
22 just like any other project?

23 MR. DONALDSON: I will answer from the  
24 perspective I did do the visual analysis for the  
25 Delta project, and I applied the same approach,

1 the same system and the same significance criteria  
2 to that project as I applied to this project.

3 MR. AJLOUNY: Okay. Gary, do you do  
4 visuals, too, or --

5 MR. WALKER: Yes, and staff has used the  
6 same general approach with the key observation  
7 points and the CEQA significance criteria,  
8 somewhat of a different approach than Mr.  
9 Donaldson has, but we view both approaches as  
10 valid. His approach is essentially one that's  
11 been used and approved by the Federal Highway  
12 Administration, so we found that to be acceptable.

13 MR. AJLOUNY: Great. Good. And then  
14 last question, how would monitoring be  
15 accomplished in regards to plume? I'm really  
16 curious about that. You got any ideas or  
17 suggestions?

18 MR. DONALDSON: Well, there are a lot of  
19 different ways, some of which obviously wouldn't  
20 be -- which would be human observers, but --

21 MR. AJLOUNY: I mean for compliance, you  
22 know, the hours and --

23 MR. DONALDSON: That would be one way.  
24 That obviously wouldn't particularly be palatable.

25 MR. AJLOUNY: What's the one way? I

1 missed it.

2 MR. DONALDSON: Human observers.

3 MR. AJLOUNY: Oh, human, okay.

4 MR. DONALDSON: It would certainly work,  
5 but, you know, do you really want someone out in  
6 the cold all the time?

7 A more likely scenario would be  
8 something that I've seen in other industries, it's  
9 essentially a computerized visual system that  
10 would -- it would alarm when under certain  
11 conditions that you would set up. It's used in  
12 the food industry all the time. Basically when  
13 you're running along a process line, if it sees  
14 something that it's not supposed to see, it'll  
15 actuate systems, and this would be kind of a  
16 similar situation.

17 The hard part would be putting cameras  
18 in the right places and getting them to see the  
19 plume well enough at night. But certainly during  
20 the daytime you can do that kind of effect.

21 It wouldn't work particularly well or  
22 maybe at all during a severe fog condition,  
23 though.

24 MR. AJLOUNY: The lights are up in the  
25 air in the nighttime, too, --

1 MR. DONALDSON: There would be  
2 limitations during extreme fog.

3 MR. AJLOUNY: Oh, yeah, that's right.  
4 Okay, well, thank you very much. That was my last  
5 question. And I hope that suggestion will get  
6 into the, you know, into your written stuff.

7 HEARING OFFICER FAY: Who else has  
8 cross-examination of the staff? All three of you,  
9 huh? Okay. Let's keep it real short. We'll  
10 start there.

11 Well, can you cut it down, because --

12 MR. GARBETT: I can try to. William  
13 Garbett speaking on behalf of the public.

14 CROSS-EXAMINATION

15 BY MR. GARBETT:

16 Q The applicant has stated that at  
17 Blanchard Road he may ask for crossing gates or  
18 flashing lights. Given the hypothetical the  
19 Public Utilities Commission, in a case like this,  
20 might go and demand before the large number of  
21 construction vehicles go across there to either  
22 eliminate the crossing or to provide a grade  
23 separation.

24 If the grade separation crossing had to  
25 be provided, how would this affect the visuals?

1                   MR. DONALDSON: I would have to look at  
2                   what that would look like. I have not analyzed  
3                   that.

4                   MR. GARBETT: Terrible. Given the fact  
5                   there may be condensation at various times that  
6                   you call a plume, there are many methods known by  
7                   rainmakers of providing this condensation through  
8                   cloud seeding, silver iodine or other things.

9                   Going just the opposite way, have you  
10                  considered any inhibitors to basically reduce the  
11                  formation or the coalescing of moisture?

12                  MR. WALTERS: I think once it's out the  
13                  stack there's really not much else you can do.

14                  MR. GARBETT: Could there be a treatment  
15                  method before it left the stack?

16                  MR. WALTERS: Well, essentially we've  
17                  been discussing that. That's the wet/dry system  
18                  or dry cooling.

19                  MR. GARBETT: Given that the applicant  
20                  has built a small sized plant at the Sutter site  
21                  using dry cooling, is it feasible for him to  
22                  actually, for instance, apply either dry or wet  
23                  cooling to this site in the larger site space that  
24                  they have at Metcalf?

25                  MR. WALKER: Actually they have a larger

1 size space at Sutter, and it's a large project,  
2 also. But as far as -- let Will at least say  
3 whether he can answer that.

4 MR. WALTERS: I really can't. I don't  
5 know enough about the dimensions of the sites to  
6 say one way or the other.

7 MR. GARBETT: I think they're good  
8 enough engineers to -- in the aesthetics could a  
9 joint use trench be used to access the area for  
10 both gas, recycled water, potable water and  
11 sewage?

12 MS. WILLIS: I'm going to object.  
13 That's outside the scope of his testimony.

14 HEARING OFFICER FAY: Sustained.

15 MR. GARBETT: Okay. In the laydown area  
16 that would be provided during construction, what  
17 are going to be the visual consequences that are  
18 going to also affect the biological species within  
19 the area?

20 MR. DONALDSON: I don't believe I'm  
21 qualified to answer a question on biology. I  
22 couldn't tell you.

23 MR. GARBETT: But there would be a  
24 visual impact that would have affect upon the  
25 species by eliminating --

1 HEARING OFFICER FAY: Well, he can't  
2 comment on the species, he's not a biologist.

3 MR. GARBETT: By eliminating their  
4 territory.

5 MR. DONALDSON: I can't -- I don't have  
6 a good answer for that from a visual perspective.

7 MR. GARBETT: During construction what  
8 is going to be the visual aspects of any  
9 mitigation used to prevent runoff? For instance,  
10 the little skirts they put around the area of  
11 plastic and so forth. What is the effect, the  
12 long-term effect of the long construction period  
13 going to be used and the maintainability and the  
14 presentation of that, and the effect upon any  
15 migration of people or animals?

16 HEARING OFFICER FAY: I'm not going to  
17 allow that. Construction impacts are just  
18 considered entirely different. And in the visual  
19 area they are temporary. And there's going to be  
20 a lot of, in any project, a lot of visual impacts  
21 that you wouldn't want long term.

22 MR. GARBETT: The gas metering station,  
23 have you considered the visual effect, for  
24 instance, if they use a more accurate metering  
25 system such as the Coriolis effect meters and the

1 noise that may be emanating from those?

2 MR. WALTERS: For the gas metering  
3 station I analyzed the drawings, plans, maps that  
4 were provided to me by the applicant. And I  
5 analyzed them strictly from a visual perspective.

6 MR. GARBETT: With the plantings that  
7 the applicant is being used on the project, if  
8 there were a randomness rather than a regularity  
9 of pattern that would affect a pleasing benefit  
10 for the riparian corridor, more or less repeating  
11 the randomness of trees in nature that would also  
12 go and improve the sound attenuation around the  
13 area, would that be a benefit to the project,  
14 rather than a regular, concisely spaced spacing?

15 MR. DONALDSON: That's a -- well, my  
16 general opinion on that is that looking at the  
17 existing visual character with a grove of trees  
18 and riparian areas and so forth around there, that  
19 a more random planting that kind of mimicked the  
20 natural character of the area would probably be  
21 more in line, more in tune with existing visual  
22 character for the area.

23 Is that clear?

24 MR. GARBETT: Yes.

25 MR. DONALDSON: Okay.

1                   MR. GARBETT: With an unexpected closure  
2 such as a permanent closure, would you have in  
3 there a condition to remove the fill that they're  
4 building the station upon? And restore the area  
5 back to you might say the grade level that it was  
6 prior to the project?

7                   MR. DONALDSON: I don't understand the  
8 question.

9                   MR. GARBETT: They're packing five feet  
10 of dirt there. Would the dirt go away if the  
11 plant went away?

12                   MS. WILLIS: I'm not sure that's a  
13 question for a visual witness.

14                   MR. DONALDSON: What would that be like,  
15 more like facility design or something.

16                   MS. WILLIS: Yeah, we've covered a lot  
17 of --

18                   MR. GARBETT: Well, that's part of the  
19 visual that's addressed in the --

20                   PRESIDING MEMBER LAURIE: Just answer  
21 the question. Do you know? If the project goes  
22 away, do you know if the closure plan includes  
23 elimination of --

24                   MR. DONALDSON: Fill? I think if the  
25 project wasn't built there wouldn't be fill placed

1           there.

2                       PRESIDING MEMBER LAURIE:   What five feet  
3           are you talking about?

4                       MR. GARBETT:   Okay, in order to build up  
5           the particular solid mass for the project, and to  
6           get it above the flood plane, they're putting five  
7           feet of fill in.

8                       PRESIDING MEMBER LAURIE:   Okay, do you  
9           know anything --

10                      MR. GARBETT:   And they're compacting it.

11                      MR. DONALDSON:   No, I don't.

12                      HEARING OFFICER FAY:   Okay, next  
13           question.

14                      MR. GARBETT:   Could that be one of the  
15           conditions that you might add?

16                      HEARING OFFICER FAY:   It's not in his  
17           testimony.

18                      MR. GARBETT:   No, it's not, thank you,  
19           you can't comment on that.   Okay.   At the gas  
20           metering station what would be the effect upon the  
21           visual nature of the project if any venting of the  
22           gas metering station occurred near the Metcalf  
23           Firing Range?

24                      MR. DONALDSON:   I'm not sure what you  
25           mean by venting.   Would you clarify that?

1 MR. GARBETT: Venting --

2 HEARING OFFICER FAY: No, this witness  
3 is not qualified about hazardous materials, and  
4 it's not a visual question. It's not relevant.

5 MR. GARBETT: And you didn't have a  
6 hazardous materials section that included anything  
7 of this nature, so I pick wherever I can.

8 HEARING OFFICER FAY: That may be a  
9 valid criticism, but this isn't the witness for  
10 it. Let's have one more question, okay?

11 MR. GARBETT: Okay. In security systems  
12 on the premises you've talked about lighting  
13 conditions and other such things. Would you have  
14 any invasive materials such as, for instance,  
15 infrared beams that wildlife may see, ultrasound  
16 that they may hear, or other things that may  
17 disrupt the riparian corridor?

18 MR. DONALDSON: I don't know about those  
19 things. I looked at just what the applicant had  
20 identified in terms of lighting for security  
21 safety for the plant. I didn't look at any other,  
22 or I didn't know that there were other elements  
23 like that.

24 MR. GARBETT: That concludes my  
25 questions, thank you.

1 HEARING OFFICER FAY: Okay. All right,  
2 Mr. Wade, do you have some questions?

3 MR. WADE: Thank you, I just have a few  
4 questions. I think these are probably for Mr.  
5 Walters.

6 CROSS-EXAMINATION

7 BY MR. WADE:

8 Q Recalling your testimony you, I believe,  
9 looked at five years of met data in trying to  
10 predict the occurrence of a plume?

11 MR. WALTERS: Yes, I wanted to do a  
12 wider period of time to get a more representative  
13 feel for the conditions, for the range of  
14 conditions that might occur.

15 MR. WADE: Okay, and the applicant used  
16 just one year in which they, I believe, predicted  
17 zero plumes, is that right?

18 MR. WALTERS: That's correct.

19 MR. WADE: And did the applicant use  
20 1993 IBM met data?

21 MR. WALTERS: That is what they used,  
22 that's what's in the record, yes.

23 MR. WADE: And did you hear the  
24 applicant earlier mention that there's uncertainty  
25 in modeling the plume, the occurrence of plume

1 based on the IBM met data? Do you recall hearing  
2 that?

3 MR. WALTERS: Not specifically in those  
4 words, no.

5 MR. WADE: Perhaps the record will show  
6 that, I believe that statement was made.

7 Are you aware of the fact that the '93  
8 IBM met data is the same data that's being used  
9 for predicting the ground level air pollution  
10 impacts which were expected to --

11 MR. WALTERS: No, I don't know, I'm not  
12 involved in that section.

13 MR. WADE: Okay. Let me move to  
14 something that I think you probably are -- well,  
15 let me ask you this question, finally, on that  
16 subject.

17 Would you say it's better in modeling  
18 the effect of events that are affected by  
19 meteorological conditions to use a longer period  
20 of time? Five years as opposed to three, in  
21 general?

22 MR. WALTERS: In general specifically  
23 for psychometric analysis, I would say yes.

24 MR. WADE: Okay, and I believe you said  
25 that your psychometric analysis and the computer

1 programs give you a pretty high confidence that  
2 you can predict a plume?

3 MR. WALTERS: Yes, they're not quite the  
4 same as dispersion models, --

5 MR. WADE: No, I --

6 MR. WALTERS: -- there's really --

7 MR. WADE: -- understand that. Okay.

8 Now, moving to VIS10 and your modification of  
9 VIS10, do you think it would be -- and maybe this  
10 is a question for the whole panel, I'm not sure  
11 which of you would like to answer this, but do you  
12 think it would be in the interest, or do you think  
13 the applicant would be incentivized to come up  
14 with the best possible design for reducing plumes  
15 if you were to specify in VIS10 that their plant  
16 would not be allowed to operate in the event of a  
17 plume?

18 MR. WALKER: I'm not sure exactly what  
19 incentives they would respond to. It's pretty  
20 clear that they aren't sure that they could  
21 operate with those conditions.

22 MR. WADE: Those conditions being 20 --

23 MR. WALKER: 20/100, right, as Mr.

24 Dunstan said, the information they've gathered  
25 from potential suppliers indicates they're not

1           sure whether they could or not. They have doubts.

2                   MR. WADE: Perhaps they're qualified to  
3 pick conditions that are optimal for their system  
4 design, which would give them the highest  
5 likelihood of being able to operate in that  
6 location, and if you were to specify simply that  
7 they are not allowed to operate if a plume exists,  
8 do you think that's a reasonable view?

9                   MR. WALKER: That they would -- well,  
10 I'm sure they would try to get the most abatement  
11 possible if that were a requirement, certainly.

12                  MR. WADE: Okay. And I guess part of my  
13 question was do you think they're qualified to  
14 pick an optimum set of design conditions?

15                  MR. WALKER: I don't understand --

16                  PRESIDING MEMBER LAURIE: I'm not --

17                  MR. WALKER: -- the question.

18                  PRESIDING MEMBER LAURIE: -- going to  
19 ask you to answer that question. That's staff's  
20 proposal, Mr. Wade.

21                  MR. WADE: Yes.

22                  PRESIDING MEMBER LAURIE: Or that's  
23 applicant's proposal. Staff has a different  
24 proposal.

25                  MR. WADE: Well, I guess you probably

1           perceive that I'm offering another proposal which  
2           has sort of gone by the wayside, and the reasons  
3           why that might be the best approach for all  
4           concerned by specifying the thing which we really  
5           care about, which is the plume, we allow the  
6           applicant the opportunity to come up with whatever  
7           design they feel meets that top level requirement  
8           without specifying the lower level design  
9           conditions that would --

10                       PRESIDING MEMBER LAURIE:   Okay,  
11           understood.

12                       MR. WADE:   That's all I have to say.  
13           And I have no more questions, thank you.

14                       HEARING OFFICER FAY:   All right, thank  
15           you.   Mr. Scholz.

16                                       CROSS-EXAMINATION

17           BY MR. SCHOLZ:

18                       Q    Again, following up on VIS10, not on the  
19           implementation and the changes, but on the  
20           verification, I want to follow up on the  
21           possibility of adding language to your  
22           verification that perhaps if a plume camera is the  
23           best way to do it.  So you have some way of  
24           knowing whether the project is in compliance.

25                                       It's not dependent upon the applicant to

1 tell you it's in compliance. It's not dependent  
2 upon a neighbor harassing you saying it's not in  
3 compliance.

4 Would you consider putting language such  
5 as a plume camera where you can actually see for  
6 yourself and you don't have to be annoyed by the  
7 neighbors if there is a plume?

8 MR. WALKER: We would expect that  
9 whatever plan they would propose would provide for  
10 a verifiable condition that the staff would be  
11 able to independently verify whether they were  
12 complying with the condition or not. It would not  
13 simply accept them attesting to their compliance,  
14 whatever the technology might be. We're leaving  
15 it flexible for them to devise the most effective  
16 and practical thing. But we would evaluate it and  
17 our technical experts would look it over to insure  
18 that we considered it to be verifiable.

19 MR. SCHOLZ: I want to get it more  
20 specific because when we talk to the compliance  
21 manager early on in the hearings he said we had to  
22 speak to you, as the people who are writing the  
23 condition, how we're going to verify this.

24 PRESIDING MEMBER LAURIE: Okay, well,  
25 first of all the Committee writes the condition.

1           And these folks do not write the condition. All  
2           they do is recommend, and they've recommended. So  
3           you're just as free to make your proposal to the  
4           Committee as you are to these folks. Because  
5           these folks --

6                       MR. SCHOLZ: You directed us to skip  
7           this topic at the compliance section and talk to  
8           the visuals. I'm talking to the visuals. You  
9           want to say now bypass that and wait till we come  
10          to the briefing section --

11                      PRESIDING MEMBER LAURIE: No, but you're  
12          making your argument. And your argument is that  
13          you're asking for additional opportunities to  
14          verify. You can ask these folks -- strike that.

15                      There have been questions about putting  
16          in a camera. So let's simply ask these folks do  
17          you have any additional comments about the  
18          viability of putting in a camera for verification  
19          purposes? Do any of you have an opinion on that?

20                      MR. WALTERS: In terms of an opinion I  
21          think there's potential feasibility for that,  
22          along with other potential ways. But I don't  
23          think we want to limit --

24                      PRESIDING MEMBER LAURIE: Why are you  
25          leaving verification to the applicant? Is that

1           what you're saying, that the applicant comes up  
2           with the verification proposal?

3                       MR. WALKER:   Yes.

4                       PRESIDING MEMBER LAURIE:   Why is that?  
5           I have to tell you that I don't understand that.

6                       MR. WALKER:   The condition is for them  
7           to meet the standards for reducing, minimizing the  
8           plume to where it won't cause a significant  
9           impact.   That's the condition.

10                      We typically allow an applicant to have  
11           flexibility in designing a method that will, to  
12           their best ability, most practicably satisfy that  
13           condition.   But we have to review it to determine  
14           whether we think that their proposal is feasible  
15           and verifiable, practical.

16                      So, we try not to put them in a  
17           straightjacket as far as the means of achieving  
18           the condition.

19                      PRESIDING MEMBER LAURIE:   And at what  
20           point does that occur?

21                      MR. WALKER:   When they submit the plan,  
22           during the compliance phase.

23                      PRESIDING MEMBER LAURIE:   Okay.   And  
24           you're being asked that in development of that  
25           plan that a consideration be given to visual

1 verification. And I guess that's something you  
2 can ask the applicant for.

3 MR. WALKER: Yes, in fact, since Mr.  
4 Walters mentioned he thought that camera sorts of  
5 technology could be feasible, that's on the record  
6 now for them to consider in devising their plan.

7 PRESIDING MEMBER LAURIE: So in  
8 examining the plan, you'll be looking for  
9 applicant's response to whether a camera is  
10 feasible or infeasible?

11 MR. WALKER: Yes, unless they show us  
12 some other method that they find preferable, and  
13 we agree that that's a good method.

14 PRESIDING MEMBER LAURIE: Does that get  
15 to your point at all?

16 MR. SCHOLZ: It definitely does and what  
17 I'm trying to do is, let's try not to be  
18 antagonist about all this between the CEC, the  
19 applicant and the neighbors. Let's have an  
20 impartial way to document whether there's a plume.  
21 No one has to annoy each other, get on each  
22 other's nerves.

23 That's the condition. Here's how to  
24 verify it. If you can come up with a better way  
25 than a camera, great. But, you know, let's not be

1           tattle-tails, let's not be accused of, well, you  
2           know, it was 59 minutes, or, you know, 61 minutes  
3           or whatever.

4                         We can document it. You know, we don't  
5           have to feel like we're telling on Calpine or  
6           whatever.

7                         MR. GARBETT: I want a reward if --

8                         MR. WALKER: We won't expect the  
9           community to do the monitoring.

10                        MR. SCHOLZ: Well, the compliance  
11           manager gave us that impression that we would be  
12           the monitors, basically. The way it is right now.  
13           So that's why -- and I don't want to be the only  
14           source of --

15                        MR. WALKER: Well, there's obviously a  
16           complaint process by which members of the public  
17           can notify the compliance manager about perceived  
18           violations of conditions. But that's not the  
19           method of verification that we would ask for in  
20           the condition.

21                        PRESIDING MEMBER LAURIE: And I can tell  
22           you the Committee would be disinclined to put such  
23           a burden on the community.

24                        MR. SCHOLZ: Thank you. Finally, I want  
25           to ask about a couple of the key observations --

1                   PRESIDING MEMBER LAURIE: I'm sorry, I  
2                   didn't mean to speak for the Committee. I would  
3                   be disinclined.

4                   MR. SCHOLZ: Thank you.

5                   CHAIRMAN KEESE: I'm still awake.

6                   (Laughter.)

7                   MR. SCHOLZ: I want to understand that  
8                   on a couple of these key observation points, one  
9                   being the proposed Fisher Creek trail and maybe  
10                  perhaps Coyote Ranch.

11                  Were those views considered significant  
12                  impacts prior to any mitigation?

13                  MR. DONALDSON: Significant is used as  
14                  it's used in CEQA, so I could say that you use the  
15                  word, there would be a substantial impact or  
16                  substantial change. Are you asking specifically  
17                  about Coyote --

18                  MR. SCHOLZ: Will they become, in your  
19                  view, less than significant because of mitigation?  
20                  Or are they less than significant because for a  
21                  different reason, they're just less than  
22                  significant?

23                  MR. DONALDSON: The views from Coyote  
24                  Ranch, according to my analysis, were that that  
25                  would not be a significant adverse impact, visual

1 impact, from Coyote Ranch.

2 That was because the visual quality  
3 reduction due to the plant would only have reduced  
4 it from -- I hope I have this right -- but I  
5 believe it was from moderately high to moderate --

6 MR. SCHOLZ: Specifically on Coyote  
7 Ranch, we'll start there. Is it designated  
8 historical landmark or does it have any historical  
9 significance, do you know?

10 MR. DONALDSON: Actually I don't know  
11 that.

12 MR. SCHOLZ: I don't know the answer,  
13 either, I thought it had some significance, I'm  
14 not sure if it's the level of historical.

15 But it is used as a significant  
16 recreational facility, outdoor facilities, --

17 MR. DONALDSON: Correct.

18 MR. SCHOLZ: -- you're aware of that?

19 MR. DONALDSON: Yes.

20 MR. SCHOLZ: When people are out there  
21 choosing to use that facility they're going to see  
22 the power plant, correct now, instead of the  
23 Tulare Hill?

24 MR. DONALDSON: They'll see Tulare Hill  
25 and the power plant.

1 MR. SCHOLZ: Right.

2 MR. DONALDSON: Or a portion of the  
3 power plant.

4 MR. SCHOLZ: And what I'm getting at is  
5 that is not significant to you, absent mitigation?

6 MR. DONALDSON: According to my analysis  
7 it did not come out to be significant. I could --  
8 well, it's in my testimony.

9 MR. SCHOLZ: Okay, I guess I didn't  
10 understand. You are making a condition, VIS7, I  
11 think, that references Coyote Ranch?

12 MR. DONALDSON: Yes.

13 MR. SCHOLZ: Where you're going to  
14 plant --

15 MR. DONALDSON: Yes.

16 MR. SCHOLZ: -- to somewhat or  
17 completely obstruct the view of the power plant?

18 MR. DONALDSON: That was something that  
19 was actually proposed by the applicant. And I  
20 thought that was a good idea, even though we don't  
21 have a significant adverse impacts from four views  
22 from Coyote Ranch. I thought the applicant  
23 proposed that and it was a good idea, so I wrote a  
24 condition that did require that, that just held  
25 that.

1                   MR. SCHOLZ: I just wanted to understand  
2                   if -- I mean I realize now if you plant trees  
3                   you've obstructed the view to the hill, I mean the  
4                   view is destroyed with the power plant, and the  
5                   view is destroyed with the trees disguising the  
6                   power plant. But you didn't think it was  
7                   significant anyway, so it's really a moot point, I  
8                   would guess.

9                   MR. DONALDSON: I can clarify that the  
10                  location of the trees would not obstruct the views  
11                  of the hill because they're located down farther,  
12                  the line of trees would be located down closer to  
13                  the road.

14                  However, it would take some time for  
15                  those trees to grow tall enough, even, to obscure  
16                  the power plant. But, remembering that we don't  
17                  have a significant impact, that seemed to be okay.

18                  MR. SCHOLZ: Okay, and I would --

19                  HEARING OFFICER FAY: Mr. Scholz, --

20                  MR. SCHOLZ: -- have a similar line of  
21                  questioning, maybe you can do it faster --

22                  HEARING OFFICER FAY: -- pick your last  
23                  question.

24                  MR. SCHOLZ: This is it. I mean but  
25                  it's on a different observation point. I want to

1 use the same way of questioning regarding the  
2 trail.

3 You're proposing basically a hedgerow  
4 that puts you in a tunnel.

5 MR. DONALDSON: I'm not, but --

6 MR. SCHOLZ: And you can't see the  
7 visual character of the hills, the east hills.  
8 Was the project, was that considered a significant  
9 impact prior to that mitigation proposal? Or is  
10 it now not significant because you're having a  
11 hedgerow? And you can't see the power plant, but  
12 you also can't see the view to the east hills?

13 MR. DONALDSON: I'm not entirely  
14 understanding how to answer your question. I'm  
15 not entirely understanding your question. I can  
16 clarify that it was not identified as a  
17 significant impact because under CEQA that's a  
18 future use, and didn't qualify as a baseline  
19 existing condition.

20 What the applicant had proposed was to  
21 put up a hedge, a dense evergreen hedge along that  
22 section of a future trail when it was constructed  
23 in order to screen views of the power plant, or  
24 screen most of the views of the power plant.

25 I felt that that would also screen views

1 of the surrounding hills, et cetera, and the other  
2 areas around there that would qualify as high  
3 quality views from the trail.

4 So what I was trying to do in VIS -- was  
5 it 11? -- VIS11 was to say let's back away from  
6 that idea of having a dense evergreen hedge that  
7 would block all views of the area, and instead  
8 provide some level of screening, but also allow  
9 open views through there of the surrounding area,  
10 or to maintain those future views for trail users.

11 Does that --

12 MR. SCHOLZ: That's a great answer,  
13 thank you. All I was trying to get back to, and  
14 you can't do that for this one because it's a  
15 future use? You couldn't make a determination  
16 whether it was significant prior to the mitigation  
17 or not?

18 MR. DONALDSON: Okay, --

19 HEARING OFFICER FAY: And that's  
20 argument.

21 MR. SCHOLZ: No, I was clarifying that's  
22 what he said, he couldn't make that determination  
23 because it was a future use.

24 HEARING OFFICER FAY: Thank you. That  
25 concludes our cross-examination of the staff

1 panel, and that concludes our taking evidence on  
2 visual resources.

3 I have just a couple -- I'm sorry, did  
4 you have -- followup. And I'm sorry, Mr. Harris,  
5 I need you to go back over the exhibits you moved  
6 in. I didn't catch them all. If you could go  
7 down that list again?

8 MR. HARRIS: For visual or for --

9 HEARING OFFICER FAY: Visual.

10 MR. HARRIS: Okay. Let's see if my eyes  
11 work at this hour. 103B, 104, exhibit 46, exhibit  
12 105, exhibit 66, exhibit 95, exhibit 97, and  
13 exhibit 106.

14 HEARING OFFICER FAY: Okay. And you  
15 moved all those in --

16 MR. HARRIS: Yes.

17 HEARING OFFICER FAY: -- and they were  
18 received. Thank you.

19 And do you want to identify where in the  
20 record some of these photographs appear? They  
21 have references, figure references. But I want to  
22 be sure that those references lead us to some  
23 document.

24 MR. HARRIS: Yeah, give us just a second  
25 here.

1 HEARING OFFICER FAY: And if they're not  
2 part of an exhibit, then I'd like to mark it for  
3 identification.

4 MR. AJLOUNY: I have a question for the  
5 Commission.

6 MR. HARRIS: They are part of an  
7 exhibit.

8 Okay, figure VIS1.2 is part of PSA set  
9 7, exhibit 23. The Blanchard Road existing visual  
10 conditions, those selected photos all have the  
11 reference to the sources there, PSA comment set 7.  
12 Although I won't object if we want to introduce it  
13 for administrative convenience if these are, we  
14 can admit that as an item or just use the  
15 references, whatever you prefer.

16 HEARING OFFICER FAY: Okay, let's do  
17 that. The Blanchard Road visuals we'll mark as  
18 exhibit 108.

19 MR. HARRIS: Right, and I'd move that  
20 into evidence.

21 HEARING OFFICER FAY: And you do wish to  
22 move that?

23 MR. HARRIS: Yes, is it 107 or 108? I'm  
24 sorry.

25 HEARING OFFICER FAY: This is 108.

1 Staff is --

2 MR. HARRIS: Oh, staff's is 107, okay.

3 HEARING OFFICER FAY: -- 107.

4 MR. HARRIS: That's fine. Let's see --

5 HEARING OFFICER FAY: Any objection to  
6 receiving that?

7 MS. WILLIS: That was the photos from --

8 HEARING OFFICER FAY: That's the  
9 Blanchard Road photographs.

10 MS. WILLIS: No objection.

11 HEARING OFFICER FAY: Okay, and that is  
12 exhibit 108.

13 Okay, the other maps?

14 MR. HARRIS: The biological maps?

15 HEARING OFFICER FAY: Just where they're  
16 found.

17 MR. HARRIS: Yeah, the KOP map figure  
18 8.11-1BR is part of supplement C, as in Charlie,  
19 which is exhibit 5.

20 HEARING OFFICER FAY: Okay.

21 MR. HARRIS: There was one BIO figure 2,  
22 that was from the draft biological resources  
23 BRMIMP, whatever we call it. I think that one was  
24 identified. Exhibit 101. I'm in biology now.

25 HEARING OFFICER FAY: And what about

1 this?

2 MR. HARRIS: Oh, --

3 SPEAKER: That was just a handout, it  
4 was part of our --

5 HEARING OFFICER FAY: Well, it was  
6 discussed quite a bit. I'd at least like to mark  
7 it for identification.

8 MR. HARRIS: We can mark it and move  
9 that into evidence, as well.

10 HEARING OFFICER FAY: Well, marked for  
11 identification as exhibit 109, the --

12 MR. HARRIS: Color photos of the  
13 architectural designs.

14 HEARING OFFICER FAY: -- color photos by  
15 Hillier Firm of the architectural, various  
16 architectural designs for the power plant. Marked  
17 as exhibit 109. Any objection to receiving that  
18 into evidence?

19 I hear none, so that is moved into  
20 evidence.

21 Okay. And you didn't want to even mark  
22 this now because you're going to introduce it  
23 later?

24 MR. HARRIS: I'm afraid I'll get in  
25 trouble, so we'll --

1 HEARING OFFICER FAY: Let's leave it --

2 MR. HARRIS: -- let's leave it alone.

3 HEARING OFFICER FAY: -- leave it as it  
4 is.

5 INTERVENOR: I'm ready for that one.

6 MR. HARRIS: I know you are.

7 HEARING OFFICER FAY: All right.

8 MR. HARRIS: We'll come back to that one  
9 for sure.

10 HEARING OFFICER FAY: Okay, all right,  
11 thank you all for your endurance and your  
12 patience. Yes?

13 MR. AJLOUNY: One question just so I can  
14 understand. The next set of hearings is set for  
15 three days, and it's all on air quality. And I  
16 want to know from the Commissioners' point of  
17 view, is he intending to accomplish that in one  
18 evening, also, or do you have any idea or goal  
19 or --

20 PRESIDING MEMBER LAURIE: I'm going to  
21 talk to Mr. Valkosky about it, and I would  
22 certainly, at this point I would expect not. I  
23 think we'll certainly not in one day, given the  
24 expectations. So I think you can plan on it going  
25 two.

1                   But only, it's only because you all say  
2                   you have these hours of cross-examination. And  
3                   again, whether or not that's relevant, or focuses  
4                   is beside the point.

5                   HEARING OFFICER FAY: Just as a  
6                   reminder, that is next Wednesday, February 28th,  
7                   beginning at 2:00 in San Jose City Hall Council  
8                   Chambers.

9                   MR. AJLOUNY: Yeah, a week from  
10                  Wednesday.

11                  HEARING OFFICER FAY: I'm sorry, a week  
12                  from next Wednesday, February 28th. And then the  
13                  following day, March 1st. And then, if necessary,  
14                  the following day, March 2nd.

15                  MR. HARRIS: Mr. Fay, --

16                  HEARING OFFICER FAY: Yes, Mr. Harris.

17                  MR. HARRIS: -- if at all possible we'd  
18                  suggest that maybe the location can be moved to  
19                  this location. It seems to be a better  
20                  accommodation. I'll leave that to the Committee's  
21                  discretion, but from the applicant's perspective  
22                  this room seems to work out better.

23                  MR. AJLOUNY: Much better. Unless they  
24                  let me sit up on the top.

25                  (Laughter.)

1 HEARING OFFICER FAY: We'll check into  
2 that.

3 Okay, thank you for the suggestion.  
4 Anything further, then?

5 All right, thank you, all. We're  
6 adjourned.

7 (Whereupon, at 1:30 a.m., the hearing  
8 was adjourned, to reconvene at 2:00  
9 p.m., Wednesday, February 28, 2001 at a  
10 location to be determined.)

11 --o0o--

12

13

14

15

16

17

18

19

20

21

22

23

24

25

## CERTIFICATE OF REPORTER

I, JAMES RAMOS, an Electronic Reporter, do hereby certify that I am a disinterested person herein; that I recorded the foregoing California Energy Commission Hearing; that it was thereafter transcribed into typewriting.

I further certify that I am not of counsel or attorney for any of the parties to said hearing, nor in any way interested in outcome of said hearing.

IN WITNESS WHEREOF, I have hereunto set my hand this 22nd day of February, 2001.

JAMES RAMOS

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345