

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA



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ADMINISTRATIVE LAW JUDGE HALLIE YACKNIN, presiding

In the Matter of the Application of
Southern California Edison Company
(U338E) for a Certificate of Public
Convenience and Necessity for the
RTRP Transmission Project.

) EVIDENTIARY
) HEARING
)
)
) Application
) 15-04-013
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Pages 1 - 177
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1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

I N D E X

WITNESSES:	PAGE
DANA CABBELL	
Direct Examination	22
By Mr. Pontelle	
Examination By ALJ Yacknin	25
Cross-Examination By Mr. Como	27
Redirect Examination By Mr.	46
Pontelle	
Examination By ALJ Yacknin	50
Recross-Examination By Mr. Como	52
STEPHEN LAFOND	
Direct Examination By Ms.	54
Sheriff	
Cross-Examination By Mr. Como	57
Redirect Examination By Ms.	73
Sheriff	
SCOTT LESCH	
Direct Examination By Ms.	77
Sheriff	
Cross-Examination By Mr. Como	78
Redirect Examination By Ms.	83
Sheriff	
DANIEL GARCIA	
Direct Examination By Ms.	86
Sheriff	
Cross-Examination By Ms. Rucker	87
STEVEN SHOEMAKER	
Cross-Examination By Mr.	101
Pontelle	
Redirect Examination By Mr. Como	110
Recross-Examination By Mr.	113
Pontelle	
Cross-Examination By Ms. Sheriff	114
GARY BUSTEED	
Direct Examination By Mr.	139
Pontelle	
Cross-Examination By Mr. Kim	141
ROMAN VAZQUEZ	
Direct Examination By Mr. Forest	153
Cross-Examination By Mr. Day	154

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

Exhibits:	Iden.	Evid.
PA0-01-X-C	38	
2-X	41	
PA0-03-X	62	
PA0-04-X	63	
PA0-05-X	63	
6-X	79	
RIV-01		90
RIV-02		90
RIV-01, RIV-02		91
PA0-03-X, PA0-04-X		92
PA0-05-X, PA0-06-X		92
ISO-01	95	95
JUR-01, JUR-02	97	97
JUR-03, JUR-04	97	97
7-X	104	
8-X	115	
9-X	115	
PA0-01		138
PA0-01-C		138
SCE-07-X		138
RIV-08-X		138
RIV-09-X		138
SKY-10-X	156	
SKY-11-X	156	

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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SAN FRANCISCO, CALIFORNIA

SEPTEMBER 4, 2019 - 9:00 A.M.

* * * * *

ADMINISTRATIVE LAW JUDGE YACKNIN: We will be on the record.

This is the time and place for the evidentiary hearing in Application 15-04-013, the Application of Southern California Edison Company for a Certificate of Public Convenience and Necessity for the RTRP Transmission Project, the Riverside Transmission Project.

Before we start taking our evidence, I've preliminarily marked the prepared testimonies that were served pursuant to the scoping memo and to my subsequent ruling amending the schedule. I've provided that exhibit list to the parties by email, and I will be -- I am directing that we copy that exhibit list into the transcript.

Briefly, for one clarification, the exhibit list marks a single errata version of the testimony of Marcor Platt, which was originally served on July 2, and errata pages were served on August 2. And I have marked a single conformed copy showing the errata in underlined and strikethrough as the exhibit. That would be Exhibit Sky/LMD-1, public and

1 confidential versions. So that is 1 and 1-C.

2 So the parties' prepared testimony
3 is designated by abbreviations in the exhibit
4 numbers. And while there is pros and cons to
5 the approach, we are going to be marking the
6 exhibits, the cross-examination exhibits,
7 with the letter X.

8 Another housekeeping matter, because
9 I always have something to lecture about, I
10 only realized when I was preparing for today
11 and substituted Edison's replacement
12 attachments that were provided to the
13 prepared testimony that came with label tabs.
14 And at that point I realized that the
15 attachments to the exhibits to Edison's
16 prepared testimony don't have any pagination.
17 So there is no pagination in there making it
18 virtually impossible for me to be able to
19 cross reference. I did manage to get
20 somebody to spend a couple of hours to put
21 tabs in there for me.

22 Going forward, whenever you appear
23 in front of me, Rule 13.6(a) says pages have
24 to be paginated. There might be other
25 culprits here, Riverside is not a culprit.

26 MS. SHERIFF: Thank you, your Honor.

27 ALJ YACKNIN: I noticed that right
28 away. Lots of numbers in your pagination,

1 but I can work with that. Next time you
2 appear in front of me, I don't want to see
3 that again.

4 Parties, I have a -- reviewing the
5 party list, the service list of the parties,
6 I have a number of persons identified as --
7 number of entities identified as parties who
8 have not been participating, as far as I
9 know, to date. So that would be the Center
10 for Community Action & Environmental Justice,
11 Stratham Company, William Lyon Homes, TURN,
12 Lennar Homes of California, and City of
13 Corona. Actually, City of Corona, I believe,
14 I forget if they had a motion for party
15 status.

16 In any event, I also have a group of
17 parties collectively known as APV Owners and
18 Vernola Trust. They appeared briefly. I
19 haven't seen them since then. So I put
20 everybody on notice -- is there anybody here
21 from those parties, by the way?

22 MR. COSGROVE: David Cosgrove.

23 I did file the protest on behalf of
24 those parties, your Honor. Since the time of
25 the filing of that protest, those parties
26 have transferred. The current owners are not
27 participating, and those parties haven't
28 sponsored any testimony. But I will be

1 participating on behalf of Sky Country, who
2 is.

3 ALJ YACKNIN: Thank you. Can you
4 please state your name for the record.

5 MR. COSGROVE: David Cosgrove,
6 C-o-s-g-r-o-v-e.

7 ALJ YACKNIN: Thank you.

8 I'm not going to remove these
9 entities from their party status at this
10 juncture, but they are on notice. If I don't
11 get any briefs or request to participate
12 during this evidentiary hearing, I will
13 remove them from the party -- as parties at
14 that time.

15 I have a motion to strike by Sky
16 Country Investments Company.

17 MR. FORREST: I'm sorry, your Honor.
18 Before we get to the motion to strike, there
19 was an additional supplement that SCE
20 circulated to all parties with respect to our
21 written testimony that was filed in June.
22 And I don't think that appears on your
23 subject list, but we have copies of that
24 available.

25 ALJ YACKNIN: Okay.

26 MR. FORREST: We can do that now or?

27 ALJ YACKNIN: Let me look at that now.
28 We will go off the record.

1 (Off the record.)

2 ALJ YACKNIN: Back on the record.

3 While waiting to take a look at that
4 June supplement, I want to mention that I
5 have marked as Exhibit NOR-1, the Prepared
6 Testimony of Kevin Bash on Behalf of the City
7 of Norco. The City of Norco tendered that or
8 served that prepared testimony in compliance
9 with the schedule while its motion for party
10 status was pending. I have since denied the
11 motion for party status. So that exhibit
12 will not be received into evidence.

13 Off the record.

14 (Off the record.)

15 ALJ YACKNIN: Back on the record.

16 I had overlooked and Edison has
17 reminded me that it served a supplement to
18 its direct testimony in June, and has
19 provided me with two copies of the public and
20 confidential versions. This would be the
21 additional -- actually, I did receive these.
22 But I don't usually put workpapers into the
23 record, unless they are directly related to
24 the testimony.

25 Is there any particular purpose that
26 this would serve? Do you expect to be using
27 these in cross-examination?

28 MR. FORREST: My understanding, your

1 Honor, is certain intervenors expected to
2 refer to those in terms of their
3 cross-examination, and they reflect --

4 MS. ARMSTRONG: Your Honor?

5 MR. FORREST: -- a change in
6 methodology or not change in methodology.
7 Basically, they reflect a standardized
8 methodology for approaching the cost
9 estimating approach for all alternatives in
10 the FEIR. So that there was -- to limit
11 confusion amongst the comparison between the
12 alternatives.

13 ALJ YACKNIN: There is one purpose in
14 providing workpapers and discovery to the
15 parties. You are free to pile on all kinds
16 of stuff amongst yourselves. I'm not sure I
17 need this entire document into the record.

18 MS. ARMSTRONG: Jeanne Armstrong for
19 Sky Country.

20 The workpapers you received are, my
21 understanding, basically a new Attachment 0,
22 Edison's Attachment 0 for its March 1st
23 testimony was a detailed breakdown, its cost
24 estimates for its various alternatives.
25 Those workpapers track that Attachment 0. It
26 was our assumption that those new numbers is
27 what Edison was relying on. So when we, Sky
28 Country, did our analysis of Edison's cost,

1 we used the June 7th papers.

2 ALJ YACKNIN: Do the June 7th, or
3 whatever, June papers contradict Edison's
4 direct testimony?

5 MR. FORREST: They changed certain
6 numbers, your Honor, in the testimony. But
7 they don't contradict it.

8 ALJ YACKNIN: So will you be making
9 those changes to the numbers in your
10 testimony when you call your witness to the
11 stand?

12 MR. FORREST: It was our intent that we
13 were going to be supplementing those papers,
14 but that is something I can --

15 ALJ YACKNIN: It was your intent that
16 what?

17 MR. FORREST: It was out intent that
18 the new numbers in those supplemental
19 workpapers were going to reflect those
20 changes, your Honor, but that is something I
21 can work with offline.

22 ALJ YACKNIN: If there is testimony or
23 the discussion by your witnesses that state
24 numbers that are no longer correct, I would
25 like you to make those changes.

26 MR. FORREST: Understood, your Honor.
27 This gets into discussion a little bit about
28 the methodology. The numbers are correct.

1 We simply put an apples-to-apples comparison
2 with respect to the way those numbers were
3 calculated.

4 ALJ YACKNIN: Let's go off the record.
5 (Off the record.)

6 ALJ YACKNIN: Let's go back on the
7 record.

8 While we were off the record
9 Mr. Forrest was explaining that the
10 supplement served in June contains the
11 workpapers backing up a single table in that
12 document that shows the before and after
13 numbers based on the revised methodology that
14 the rest of the document purports to explain.

15 Yes, Ms. Armstrong.

16 MS. ARMSTRONG: Yes. So as Mr. Forrest
17 described -- but the problem is that we then
18 used, with respect to Alternative 1 and the
19 hybrid alternative, the tables of the
20 materials and cost from the June 7th.

21 ALJ YACKNIN: I don't see that that is
22 a problem.

23 MS. ARMSTRONG: So long as all of the
24 workpapers -- I mean, we've assumed that
25 those were Edison's new cost numbers, and
26 some of the numbers did change from March to
27 June.

28 ALJ YACKNIN: Are those -- the numbers

1 that change from March to June, does Edison
2 now stand by its June numbers?

3 MR. FORREST: We stand by both numbers.
4 The numbers in June are also correct, yes.

5 ALJ YACKNIN: Ms. Armstrong, if you
6 need to introduce any pages, any workpapers
7 as a cross-examination exhibit, you are
8 welcome to do that. It is just that I don't
9 require them.

10 MS. ARMSTRONG: So we will go through
11 and pick out the pages that we relied on and
12 then? Okay.

13 ALJ YACKNIN: That would be great.
14 Thank you.

15 MS. ARMSTRONG: But the one table --

16 ALJ YACKNIN: To that point, I will
17 direct Edison to prepare that one or two-page
18 excerpt of this June too, and let's go ahead,
19 and I'll mark that after you've had a chance
20 to do that. So we will take that excerpt
21 from the June supplement that is a snapshot
22 of what it holds. And if any parties need to
23 use other pages of the workpapers or any data
24 responses that you've received in your course
25 of discovery, you can do so.

26 Moving on, I have a motion to
27 strike, by Sky Country. I also received a
28 public and confidential version of Edison's

1 response, which is not yet due for filing,
2 but of course we are here at the evidentiary
3 hearing today.

4 Mr. Forrest, it appears to me that
5 that was not served on the service list. It
6 was served on Sky Country, but I don't think
7 it was served -- it didn't appear to me in
8 the email that was served on the service
9 list.

10 MR. FORREST: The public version was
11 served on the service list only this morning.
12 The confidential version was re-served on the
13 entire service list this morning. I sent
14 advance copy to yourself and the moving party
15 yesterday.

16 ALJ YACKNIN: I hadn't noticed the
17 service list on this mornings's transmittal.
18 That is fine.

19 Since it has not yet been tendered
20 for filing, I want to take it up right now.
21 I will -- I have reviewed it as Edison's
22 response to the motion, Edison's argument in
23 response to the motion. And I will cause it,
24 the public version of it, to be copied into
25 the transcript.

26 I have reviewed the arguments, and
27 the motion to strike is denied. Data Request
28 7.2 and 3.21 do not on their face call for

1 the information presented in the
2 corresponding rebuttal testimony.

3 With respect to Data Request 2.10
4 and 2.17, Edison has demonstrated that it has
5 responded in good faith to these inquiries.
6 And that to the extent the information
7 presented in the corresponding rebuttal
8 testimony was not provided in its responses
9 to these specific data requests, that
10 information was provided in response to
11 numerous other data requests and in Edison's
12 direct testimony.

13 Edison does concede to a limited
14 extent that it didn't provide the calculation
15 of 36.5 percent of hard digging along the
16 route. Although, it says that Sky could have
17 derived it from the information provided.
18 However, given that concession, I will allow
19 Sky to conduct additional direct to the
20 extent, on this limited issue, to rebut the
21 calculation based on the information that
22 Edison has provided subject to appropriate
23 objections.

24 MR. DAY: You are referring to the hard
25 digging issue, your Honor?

26 ALJ YACKNIN: Yes.

27 Thank you to the party for the
28 witness schedule. The parties did come

1 together and reached a proposed witness
2 schedule for examination. It looks good, and
3 I'll try to work with it.

4 The first witness will be Edison's
5 Dana Cabbell.

6 Before we do that, I want to touch
7 on confidentiality. I have a great deal
8 of -- a number of exhibits with a great deal
9 of confidential material in them. Is all of
10 the information that is claimed to be
11 confidential claimed by Edison, or do other
12 parties claim confidential treatment on their
13 own behalf?

14 MR. DAY: Your Honor, Mike Day on
15 behalf of Sky Country.

16 We don't claim confidential status
17 for our own information, but we used a great
18 deal of Edison's confidential information,
19 both in our witness's testimony and his
20 exhibits, and also possibly in responses that
21 he would give under cross-examination. So we
22 will have to be equally cognizant of that.

23 ALJ YACKNIN: Right. Is there anybody
24 who is claiming confidential treatment on
25 their own behalf, other than Edison?

26 MS. SHERIFF: Your Honor, may we go off
27 the record for a moment?

28 ALJ YACKNIN: Okay. Off the record.

1 (Off the record.)

2 ALJ YACKNIN: Back on the record.

3 Is there anybody who has their own
4 claim of confidentiality?

5 (No response.)

6 ALJ YACKNIN: So it seems it is all
7 Edison's, which is not unusual, if it is the
8 case. But I do -- I don't have a motion to
9 seal any exhibits at this time, that is fine.
10 I'll take those up when we move the exhibits
11 into evidence. But for now, the onus is on
12 Edison to be sure to keep a close eye when
13 your witnesses or any other witness or any
14 counsel starts delving into subjects that
15 might -- the responses to which or the
16 questions as raised might implicate
17 confidential information. But I do ask the
18 other parties to be cognizant of that as
19 well.

20 MR. PONTELLE: Your Honor, if I may?

21 ALJ YACKNIN: Yes, Mr. Pontelle.

22 MR. PONTELLE: Robert Pontelle for SCE.

23 In the event confidential
24 information is discussed during
25 cross-examination, do you have a preferred
26 procedure for how you would like other folks
27 to leave the room, or how you would like to
28 handle that?

1 ALJ YACKNIN: Yes. Depending on how
2 extensive it is going to be, if there is
3 going to be a lot of discussion, I would like
4 to hold it -- if, for example, Public
5 Advocates Office is delving into a
6 confidential area, I don't want to take that
7 up sporadically. I would like to hold that
8 topic to a discrete section so that is easy
9 for us to seal the transcript and unseal it.
10 And yes, we will clear the room of anybody
11 who isn't privy under any nondisclosure
12 agreements with Edison, clear the room of
13 them.

14 By the way, is there anybody here in
15 the room who is not privy to your
16 confidential information?

17 MS. SHERIFF: Your Honor, Nora Sheriff
18 for the City of Riverside.

19 I personally signed nondisclosure
20 agreement with Southern California Edison.
21 However, the employees of Riverside Public
22 Utilities have not. So my experts would need
23 to leave the room.

24 ALJ YACKNIN: Thank you for letting me
25 know that. Then I'll be sure to survey the
26 room every time. Let's try and avoid the
27 need.

28 MR. COMO: Your Honor, Joe Como, Public

1 Advocates.

2 I do have some questions on
3 confidential exhibits, but I will try to
4 frame them in a way that the witness can
5 answer the question in a way that doesn't
6 reveal the confidential nature of it.

7 Obviously, the witness is going to have to
8 cooperate with me on that.

9 ALJ YACKNIN: I have -- I would like to
10 go off the record for a minute.

11 Off the record.

12 (Off the record.)

13 ALJ YACKNIN: Back on the record.

14 I have a couple more things before
15 we call the first witness. I intimated my
16 concerns in this regard through email. I
17 have a great deal of testimony from Edison
18 and less from Sky Country debating the cost,
19 debating the cost cap for the proposed
20 project versus the environmentally superior
21 alternative project. While the cost cap is
22 an issue, obviously it is Issue No. 8,
23 because I need to set a maximum prudent and
24 reasonable cost.

25 The flavor of the prepared testimony
26 seems to implicate Issue No. 5, which is
27 infeasibility of mitigation and the
28 environmentally superior alternative, but I

1 don't have any prepared testimony under that
2 heading, as was directed in the scoping memo
3 where I said I wanted the prepared testimony
4 to track the issues and refer directly to the
5 issues. And so that is scoping memo at
6 page 4.

7 So I want to ask right now: Does
8 Edison change the feasibility of the
9 environmentally superior alternative?

10 MR. FORREST: Your Honor, as
11 articulated in the testimony of Kathy
12 Hidalgo, we intend to make the legal argument
13 that the -- challenging the feasibility of
14 Alternative 1 as a matter of public policy,
15 but did not change the basis of feasibility
16 on other bases recognized under CEQA. We
17 don't challenge it on the basis of
18 engineering. We don't challenge it on the
19 basis of legality, environmental, et cetera.
20 We challenge it on the basis of public
21 policy.

22 ALJ YACKNIN: And the public policy
23 being?

24 MR. FORREST: Being that, ostensibly,
25 if you are going to build this transmission
26 line for the satisfaction of the objectives
27 of the project, it doesn't make sense from a
28 public policy perspective to spend more of

1 the construction of that line to accomplish
2 the same goals. We believe that the proposed
3 hybrid alternative will accomplish the goals
4 consistent with keeping rate pressures on
5 California customers and California
6 ratepayers down. We don't think it is
7 consistent with the public policy of
8 accomplishing the goal of providing
9 transmission power to Riverside.

10 ALJ YACKNIN: I will let you save that
11 for briefs, since that seems to be your --
12 that is your intention. I will give you a
13 heads-up that it is hard for me as I'm
14 sitting here, and as I'm going to be thinking
15 about this, to distinguish this --
16 distinguish public policy grounds from
17 economic grounds. Public policy against the
18 economic impact and the economic grounds in
19 my -- in my current state of knowledge of the
20 area is a hard hurdle to overcome and is not
21 a policy issue. It is actually a factual
22 issue to show the impact of the incremental
23 or differential cost of alternatives.

24 And so I'm stating here that you are
25 foregoing that by not having presented
26 testimony on the economic impact of the
27 relative cost of the alternatives. But I
28 will of course let you take that up in your

1 briefing.

2 MR. FORREST: Thank you, your Honor.

3 MR. DAY: Your Honor, may I speak very
4 briefly?

5 ALJ YACKNIN: Mr. Day.

6 MR. DAY: Just so that you are clear,
7 both the Sky Country testimony on appraisal
8 and Lesso's testimony on appraisal were meant
9 to be directly responsive to Edison's
10 assertions about cost being their sole
11 criteria of infeasibility. That is the
12 reason why they were submitted, and their
13 testimony specifically relates to Issue 5 and
14 Issue 8 and so states in the testimony.

15 ALJ YACKNIN: Thank you. Mr. Kim.

16 MR. KIM: Yes, your Honor. Tilden Kim
17 for City of Jurupa Valley.

18 The inquiry was directed at the
19 City, but we were very specific in the
20 testimonies as to what issues the testimonies
21 were directed at. And obviously also in the
22 briefing we will identify those issues and
23 include in the testimony portions in support
24 of our positions on those four issues that we
25 testified on.

26 ALJ YACKNIN: I understand. This is a
27 curious situation, because the direct
28 testimony doesn't mention infeasibility. But

1 the rebuttal to the direct testimony rebuts
2 the unspoken. So I want the unspoken spoken.
3 Okay?

4 Let's call Edison's first witness,
5 and we will go off the record to get them
6 settled. Off the record.

7 (Off the record.)

8 ALJ YACKNIN: Back on the record.

9 Edison, would you like to call your
10 witness.

11 MR. PONTELLE: Thank you very much.

12 Southern California Edison calls Dana Cabbell
13 to the stand.]

14 DANA CABBELL, called as a witness by
15 SCE, having been sworn, testified as follows:

16 DIRECT EXAMINATION

17 BY MR. PONTELLE:

18 Q Ms. Cabbell, are you sponsoring
19 testimony in this proceeding?

20 A Yes, I am.

21 Q Specifically, are you sponsoring a
22 portion of SCE's Direct Testimony entitled:
23 "Southern California Edison Company's Direct
24 Testimony Supporting its Application for a
25 Certificate of Public Convenience and
26 Necessity for the Riverside Transmission
27 Reliability Project," both Confidential and
28 Public versions that were served on March 1,
2019, namely, Section III of that testimony?

1 A Yes, I am.

2 Q Are there any corrections that you
3 would like to make to that testimony?

4 A Yes. I have one correction: On
5 page 23, line 3, there's a number in that
6 sentence, "50"; that number should be changed
7 to "42."

8 ALJ YACKNIN: Just a minute. Direct?

9 THE WITNESS: Page 23, line 3, that
10 number, "50," should be "42."

11 BY MR. PONTELLE: Have you reviewed
12 your witness qualifications incorporated in
13 that testimony?

14 A Yes, I have.

15 Q Are they true and correct to your
16 knowledge?

17 A Yes, they are.

18 Q Do you adopt Section III of that
19 Direct Testimony with this correction as part
20 of your sworn testimony in this proceeding?

21 A Yes, I do.

22 Q Was the material therein prepared
23 by you or under your supervision?

24 A Yes, it was.

25 Q In addition, are you also
26 sponsoring a portion of SCE's Rebuttal
27 Testimony entitled: Southern California
28 Edison Company's Rebuttal Testimony

1 Supporting Its Application for a Certificate
2 of Public Convenience and Necessity for the
3 Riverside Transmission Reliability Project,
4 both Confidential and Public versions that
5 were served on August 16, 2019, namely,
6 Section II of that testimony?

7 A Yes, I am.

8 Q Are there any corrections that you
9 would like to make to that rebuttal
10 testimony?

11 A Yes, there are. There are two
12 corrections: Page 4, line 15, after the
13 words "Ken Lewis," should add "and Steven
14 Shoemaker respectively."

15 And then the second page 16, lines
16 6 and 7: There's a number there that is
17 "67.6," which should be changed to "56.6."

18 Q Have you reviewed your witness
19 qualifications and your rebuttal testimony,
20 and are they true and correct to your
21 knowledge?

22 A Yes.

23 Q Do you adopt your portion of the
24 rebuttal testimony with these corrections as
25 part of your sworn testimony in these
26 proceedings?

27 A Yes, I do.

28 Q Was the material therein prepared

1 by you or under your supervision?

2 A Yes, it was.

3 MR. PONTELLE: Thank you, your Honor.

4 I have no further questions for this witness
5 and we move that Ms. Cabbell's testimony with
6 these corrections be moved into evidence.

7 ALJ YACKNIN: I will take motions to
8 receive the evidence after all the witnesses,
9 for a particular exhibit, have finished
10 testifying.

11 Before I take cross-examination from
12 the other parties, I wanted to see if I could
13 ask a question.

14 (Reporter clarification.)

15 THE WITNESS: Dana Cabbell, D-a-n-a
16 C-a-b-b-e-l-l.

17 EXAMINATION

18 BY ALJ YACKNIN:

19 Q So I have a question that I think
20 is best directed to your colleague
21 Mr. Holdsworth, so if you can answer this, he
22 won't have to come.

23 A Okay. No pressure.

24 Q But let me see if you can answer
25 it. Mr. Holdsworth in his testimony
26 discusses how the tariff requires Edison to
27 serve interconnection customers either at the
28 wholesale distribution level or at the

1 transmission level and how this project came
2 about in that context.

3 Mr. Holdsworth appears to say --
4 appears to me to say, that this project is
5 legally required both to service load and to
6 provide an additional source of bulk power
7 because there's only one source of bulk power
8 to Riverside right now; are you familiar with
9 that?

10 A I'm familiar that that's the
11 objective of the project.

12 Q I'm just trying to make sure we
13 have the background here so I can ask my
14 question. If you can answer it, that's fine.
15 If you can't, that's fine. So that's my
16 understanding of Mr. Holdsworth's testimony.

17 My question is, when I'm reading
18 the tariffs -- here's my question: If,
19 hypothetically, there was no need -- excuse
20 me.

21 If, hypothetically, it was possible
22 to serve load through a non- -- or load
23 forecast through nonwires alternative, is it
24 still -- would Edison still be legally
25 required to provide a second source of bulk
26 power?

27 A I'm not familiar with all the
28 tariffs to that detail.

1 Q That's really the question.

2 A I'm not sure I can answer it
3 completely for you.

4 Q I was hoping I could excuse
5 Mr. Holdsworth from coming up Friday. I have
6 nothing further. Let's go off the record so
7 I can get the order.

8 (Off the record.)

9 ALJ YACKNIN: Back on the record.

10 Cross-examination from Mr. Como of
11 the Public Advocates Office.

12 MR. COMO: Thank you, your Honor.

13 CROSS-EXAMINATION

14 BY MR. COMO:

15 Q I gave your counsel a copy of the
16 Public Advocates Direct Testimony. Can you
17 refer to Appendix I of that?

18 And, your Honor, this is a
19 confidential document, Appendix I of Public
20 Advocates Testimony.

21 ALJ YACKNIN: PA0-1-C. Let's refer to
22 them that way for the record.

23 MR. COMO: Your Honor, if you'd like a
24 tabbed copy, I can give that to you.

25 ALJ YACKNIN: Okay. So I see that Cal
26 Advocates is one of the guilty parties in
27 terms of its failure to paginate the
28 exhibits.

1 MR. COMO: Noted, your Honor.

2 ALJ YACKNIN: What are you referring me
3 to?

4 MR. COMO: Appendix I, as in India.

5 ALJ YACKNIN: Go ahead.

6 BY MR. COMO:

7 Q Ms. Cabbell, do you recognize this
8 as a data response from Southern California
9 Edison?

10 A Yes, I do.

11 Q So this is a confidential document.
12 So I'll try to refer to it, but I wanted to
13 get some ideas of a few of the lines on here.
14 Over to the right, there are two lines that
15 come off of the C-bus?

16 A Yes.

17 Q You refer to your testimony about
18 this. Are those the San Bernardino lines?
19 They are not labeled.

20 A Yes, they are.

21 Q And could you indicate where the
22 Mira Loma connection is?

23 A This diagram does not show that
24 Mira Loma connection. The Mira Loma
25 connection is further into the 66 kV portion
26 of the Vista system that serves Southern
27 California Edison and the City of Colton. So
28 this diagram does not show all the -- the

1 other side of the Vista, off the A section.

2 Q Okay. So the A section here does
3 not show Mira Loma?

4 A Right.

5 Q And the dotted lines between the
6 A-bus and the C-bus, those are breakers or
7 locations for a possible connection?

8 A Yes.

9 Q And for the C-bus, there's little
10 black squares. Can you identify what those
11 are?

12 A Those black squares represent
13 circuit breakers.

14 Q And the sort of bullseye in the
15 C-bus, what do those represent?

16 A The circles with the dots represent
17 circuit breakers that operate normally open.

18 Q Thank you.

19 Could you go to page 14 of your
20 rebuttal testimony?

21 A Of my rebuttal testimony, 214?

22 Q 14. Yes. I'm sorry. I'm done
23 with that question.

24 A Public version?

25 Q Doesn't matter.

26 ALJ YACKNIN: I'm sorry. Page 214?

27 MR. COMO: 14 of the Edison Rebuttal
28 Testimony, SCE-02.

1 THE WITNESS: Okay.

2 BY MR. COMO:

3 Q Lines 9 through 20, you state that
4 under the system peak conditions, it's not
5 possible to transfer the entire Freeman
6 Station load to San Bernardino; is that
7 correct?

8 A That is correct.

9 Q Since that substation has a
10 projected load of 88.4 MVA; correct?

11 A Correct.

12 Q And combining that with the four
13 other stations - that would be University,
14 La Colina, Springs, and Orangecrest - that
15 could total five stations to be transferred,
16 which would add up to 265.4 MVA; correct?

17 A Correct.

18 Q Then the exceedance for the
19 capacity of the San Bernardino circuit would
20 be 1.5 MVA; is that correct?

21 A That is correct.

22 Q Have you verified it's not possible
23 to split any of the Riverside stations in a
24 way that you could leave some load and still
25 transfer most of that 265.4 MVA to San
26 Bernardino?

27 A I have not.

28 Q Have you requested Riverside to do

1 SO?

2 A No.

3 Q So, I guess, you don't know whether
4 it would be possible to transfer any other
5 load out of a Riverside 66 kV substation to
6 San Bernardino?

7 A My understanding, these five
8 substations that are on that side of the
9 system, that would be -- it is still
10 difficult, but would be the substations
11 identified to transfer over the San
12 Bernardino. Just with the Freeman peak load,
13 it takes you over the actual emergency rating
14 of those two tie lines, so that's why we
15 couldn't include Freeman.

16 Q So your understanding is that none
17 of the other stations would be even possible
18 to transfer any load?

19 A That's my understanding.

20 Q Staying with the rebuttal
21 testimony, page 17, lines 3 to 4, you have
22 identified the 264 MVA transfer capacity on
23 the San Bernardino circuit being available
24 only for a time interval of, say, four hours,
25 and then after that point, you'd have to
26 reduce load; is that correct?

27 A That is correct.

28 Q Can you clarify, is that a 1-in-10

1 load calculation or 1-in-20?

2 A This is not -- this is the capacity
3 rating of the 66 kV tie lines; so it's not
4 dependent on a 1-in-10 or 1-in-20. This is
5 the maximum emergency rating for those two 66
6 kV lines.

7 Q But when you're referring to
8 maximum amount of time, are you referring to
9 a capacity that's equivalent to 1-in-10
10 capacity or a 1-in-20 capacity?

11 A No. What the four-hour period
12 stands for is we are only able to operate
13 these lines at this maximum capability for
14 four hours, and then we have to reduce it
15 down to the normal rating of those circuits
16 so we don't damage the circuits.

17 Q Okay. On page 20 of your rebuttal
18 testimony, line 13, this is where you
19 describe the system operating volt to No. 32
20 as an operational solution to mitigate
21 overloads for a loss of Vista transformer,
22 and then you would transfer load to another
23 Vista transformer; is that right?

24 A That's correct.

25 Q So on page 22, you include a
26 calculation that even with the operational
27 solution, which is the SOV 32 and a 55 MVA
28 load transfer out of Mira Loma, there would

1 still be a potential of 57.9 MVA capacity
2 deficit in 2030; that's right?

3 A That is correct.

4 Q And then you'd have to shed load or
5 transfer out of Vista substation somehow?

6 A That is correct.

7 Q Under that scenario, would it not
8 be possible to transfer some load away from
9 Vista on the San Bernardino 60 kV circuits?

10 A We didn't look at that, but, again
11 you would have to go through that
12 reconfiguration of the Riverside 66 kV system
13 and reconfiguration of the C section within
14 the Vista substation. So there would be a
15 lot of extra work and system reconfiguration
16 that would be needed, but we have not looked
17 at that specific.

18 Q Why didn't you look at it?

19 A Didn't consider it.

20 Q So going back to page 13, again
21 with this capacity issue, you've identified
22 transfer capacity at 264 MVA for the San
23 Bernardino circuit. So doesn't that mean
24 that if you transfer load to the San
25 Bernardino circuit in conjunction with
26 standard operating volt in 32, that you would
27 adequately address the potential deficit that
28 you've identified in 2030, which is 675.5

1 MVA?

2 A If that hypothetical could occur,
3 possibly. We have not studied that. But I
4 think what we need to remember here, though,
5 too, this is all under contingency and
6 emergency at Vista. All of this still does
7 not address our normal overload at Vista
8 substation.

9 Q Okay. In your rebuttal testimony
10 page 23 to 25, you noted that Public
11 Advocates' suggestion of installing series
12 reactors between the A- and the C-bus
13 sections so that you could run three
14 transformers instead of just two, would run
15 into problems with a short-circuit overload.
16 The short-circuit duty would be exceeded; is
17 that right?

18 A That's correct.

19 Q And have you considered installing
20 series reactors to alleviate that or to
21 negate that?

22 A During the response to a data
23 request, we did look at that feasibility of
24 what it would take to be able to install
25 series reactors, how would that bring down
26 the duty? Yes, that would bring down the
27 duty. We did not look at how you would
28 design that within Vista substation, which is

1 a very tight space, and we don't have a lot
2 of room to expand Vista substation and
3 possibly install these series reactors, so we
4 really didn't go any further trying to do a
5 complete design.

6 Q So when I pointed out to you, the
7 line drawing, the dotted lines between the
8 A-bus and the C-bus, that's where in the line
9 drawing those reactors would be located; is
10 that right?

11 A That's not correct.

12 Q Where?

13 A They would more likely be located
14 at the end of the bus on each side, not in
15 the center.

16 Q Okay. Then you said you considered
17 it; did you study it?

18 A All we did was we ran what we call
19 a short-circuit duty analysis to see if,
20 okay, we put a series reactor in there, will
21 it bring down the duty and try to understand
22 what the sizing would be, and that's as far
23 as we took it.

24 Q But you were mentioning problems
25 with space. Did you actually do a physical
26 analysis to see if it was possible?

27 A No, we didn't. But we are familiar
28 enough with Vista and the tightness of that

1 substation with all the different facilities
2 within that substation, and the location of
3 it, and not the ability to expand. Just
4 through our engineering judgment, we knew
5 that would be a challenge.

6 Q Are you familiar with series
7 reactors in that they're used by some of the
8 other utilities in California for similar
9 problems?

10 A Oh, absolutely.

11 Q Okay. Going to your rebuttal
12 testimony page 10, line 12 and beyond, you're
13 describing the application of Edison's
14 subtransmission planning standards to the
15 project?

16 A Yes.

17 MR. COMO: Your Honor, I would like to
18 give the witness a cross-examination exhibit.

19 ALJ YACKNIN: We'll go off the record
20 so that you can distribute that.

21 (Off the record.)

22 ALJ YACKNIN: Back on the record.

23 Mr. Como has distributed a document
24 entitled: Southern California Edison's
25 Subtransmission Planning Criteria and
26 Guidelines, dated September 24, 2015, and is
27 marked as confidential. Every page is marked
28 as confidential. I'm not sure how you intend

1 to discuss planning criteria and guidelines
2 if they are confidential. Can you tell me
3 how you're going to --

4 MR. COMO: My plan is just to refer to
5 the section and ask the witness to agree that
6 it stands for a particular purpose.

7 ALJ YACKNIN: Is the purpose
8 confidential?

9 MR. COMO: No. No. Because it has to
10 do with contingency conditions, and the
11 witness and Edison and Riverside have both
12 testified as to whether certain minus-one,
13 minus-two options are available.

14 ALJ YACKNIN: Okay. I want to go off
15 the record and I want you to confer with
16 Edison to make sure your question doesn't
17 pose any concerns. Off the record.

18 (Off the record.)

19 ALJ YACKNIN: Back on the record.

20 While we were off the record, Public
21 Advocates Office and Edison were discussing
22 how to proceed with the use of this next
23 exhibit in order, which I don't think I
24 finished marking. It's marked for
25 identification as Exhibit 1-X-C. This was
26 the Edison Subtransmission Planning Criteria
27 and Guidelines, dated September 24th, 2015.
28 It is so marked.

1 (Exhibit No. PA0-01-X-C was marked
2 for identification.)]

3 BY MR. COMO:

4 Q Would you refer to the exhibit
5 which has just been marked. And do you
6 recognize this document?

7 A Yes, I do.

8 Q It is the Southern California
9 Edison Subtransmission Planning Criteria. Is
10 it applicable to this project RTRP?

11 A A portion of it is.

12 Q Which portion?

13 A The portion related to planning of
14 A-banks or 220/66 kV transformer banks.

15 Q Can you refer to Section 2322 B,
16 which is on page 2-10.

17 A Okay.

18 Q Do you have that?

19 A Yes, I do.

20 Q And this section allows for
21 transformer ratings under contingency
22 conditions or for contingency conditions; is
23 that right?

24 A That is correct.

25 Q Could you refer to Section 2321?

26 A At page 2-9?

27 Q Yes. And under A, the last line
28 refers to loss of the largest local bypass

1 generator. Could you describe what that
2 means?

3 A What that means is that within the
4 66 kV system, or 115 kV system that this
5 transformer bank is serving, within that
6 system there is a generator that is behind
7 the meter for a customer. It is bypassing
8 essentially the Edison system. The customer
9 load is being served by the generator so,
10 hence, the term "bypass." We assume that
11 that generator, if one exists in that 66
12 system, is out of service.

13 Q Can you go to your direct testimony
14 page 30. You refer to the CAISO board
15 giving, granting Riverside the transmission
16 project approval in June of 2006?

17 A Yes.

18 Q That was 13 years ago. Have you
19 considered going back to basically reapply or
20 re-request their approval?

21 A There is no need to since they
22 approved it, and they've included it in their
23 annual transmission plan since 2006. There
24 is no need to go back and reapply or get
25 reapproval of the project.

26 Q Where they included in their recent
27 transmission plan? You are talking about the
28 TPP?

1 A Yes.

2 Q It is named in the TPP, you are
3 saying?

4 A I believe it is.

5 ALJ YACKNIN: Can you -- TPP is, for
6 the record, transmission --

7 MR. COMO: Planning process.

8 THE WITNESS: Process.

9 BY MR. COMO:

10 Q For the record, Ms. Cabbell, can
11 you identify what the TPP is and what it
12 does?

13 A California ISO's TPP, or
14 Transmission Planning Process, is the
15 document that the California ISO produces on
16 an annual basis and performs reliability,
17 economic and policy analysis on the
18 California ISO-controlled grid to determine
19 if there is need for any type of new project.

20 Q Thank you.

21 Your rebuttal testimony, page 4
22 lines 21 to 23, there is a point where you
23 say the testimony does not account for the
24 differences between the RPU completed
25 noncoincidence demand forecast and the
26 coincident demand forecast from reflected in
27 the CEC's IEPR; is that correct?

28 A Yes. I don't think I'm seeing that

1 reference. Page 4, you are saying, in my
2 rebuttal?

3 Q Page 4 lines 21 to 23.

4 A I'm sorry, I apologize.

5 Q It goes over onto the next page as
6 well.

7 A I see. I have it now. Thank you.

8 MR. COMO: I have another exhibit, your
9 Honor.

10 ALJ YACKNIN: We will go off the record
11 so you can distribute that.

12 (Off the record.)

13 ALJ YACKNIN: Back on the record.

14 I have received a Document,
15 three-page document that is entitled Data
16 Request Set Cal
17 Advocates-A.15-04-013-SCE-009. It is under
18 cover of a cover sheet. It is marked for
19 identification as Exhibit 2-X.

20 (Exhibit No. 2-X was marked for
21 identification.)

22 BY MR. COMO:

23 Q Ms. Cabbell, do you have
24 Exhibit 2-X in front of you?

25 A Yes, I do.

26 Q Do you recognize it as a data
27 response from Southern California Edison?

28 A Yes, I do.

1 Q Does this reveal the coincidence
2 factor, excuse me, the coincidence versus
3 noncoincidence peak for the Edison load and
4 the Vista-specific peak load?

5 MR. PONTELLE: Objection, your Honor.
6 I think the document is pretty clear on its
7 face and speaks for itself.

8 BY MR. COMO:

9 Q Ms. Cabbell, the document says that
10 the coincidence factor for the Vista
11 Substation and the CAISO system load is .97.
12 What does that mean?

13 A It means that for that particular
14 calculation that the Vista load was -- Vista
15 peak was occurring close to the same time as
16 the California ISO peak.

17 Q Is this what you were referring to
18 as an apples-to-oranges comparison?

19 A No.

20 Q What are you referring to then?

21 A I was referring to the testimony
22 from Mr. Lewis pointing to the use of the
23 California Energy Commission IEPR forecast of
24 which, as I think the City of Riverside will
25 probably be speaking more to it also, or they
26 have in their rebuttal testimony. There is a
27 concern or issue with the starting point of
28 that calculation of the coincidence factor

1 for that forecast.

2 Q Isn't the coincidence factor based
3 on the calculation that you provided in this
4 data response?

5 A Not my -- that is not my
6 understanding of how the coincidence factor
7 that the CEC uses. And my understanding is
8 there is an error that that was propagated
9 since 2014 that occurred when the CEC was
10 calculating the IEPR forecast. It has been
11 propagated up to this point.

12 The point I was making here is
13 that, actually, we have seen higher load,
14 actual load on the Vista C section than what
15 the CEC forecast starting point is showing.

16 Q So you are referring to the
17 coincidence adjustment that comes into the
18 CEC process?

19 A Yes.

20 Q My question is about your statement
21 at the bottom of page 4 that says the lows
22 did not account for the differences resulting
23 from the RPU completed noncoincident demand
24 forecast and the coincident demand forecast
25 reflected in the CEC's IEPR. You are saying
26 that the coincidence factor presented in this
27 data response does not reflect the reality of
28 the situation?

1 A Well, this is reflecting that the
2 Vista load, the coincident factor, is quite
3 high. You are looking at the CEC forecast.
4 And where the basis for their IEPR forecast
5 you calculated that coincidence factor.
6 Because what we have seen, or what I have
7 heard from Riverside and what we have seen,
8 their actual peak recorded load already is
9 much higher than what the CEC is forecasting
10 it to be as a starting point.

11 So if you -- yes. We are saying it
12 is pretty close. So if you take the
13 coincidence factors that we calculated here
14 and apply it to the actual peak demand that
15 the City of Riverside is seeing to count for
16 their, you know, coincidence versus the
17 coincidence to the loading of the ISO grid,
18 you wouldn't get as low a number as the CEC
19 forecast started with. So what I was trying
20 to infer was you are looking at different
21 calculations of coincidence factors.

22 Q But this data response speaks to
23 the relationship between the Vista load and
24 the Edison system load, and that then there
25 is a 98 percent overlap; is that correct?

26 A It is not an overlap. It is -- I
27 don't consider it an overlap. What it is is
28 there is 98 percent coincidence that

1 Riverside load is going to peak at that same
2 time that the Edison is peaking.

3 Q So only 2 percent apart?

4 A Right, pretty close.

5 Q With regard to the CAISO system
6 peak, they are only 3 percent apart; is that
7 correct?

8 A Correct.

9 MR. COMO: I have no more questions for
10 Ms. Cabbell, your Honor.

11 ALJ YACKNIN: Thank you. Any other
12 party have cross?

13 (No response.)

14 ALJ YACKNIN: Do you have redirect,
15 Mr. Pontelle?

16 MR. PONTELLE: Yes, your Honor.

17 ALJ YACKNIN: Is it brief?

18 MR. PONTELLE: I would say most likely
19 10 minutes.

20 ALJ YACKNIN: Okay. Why don't we take
21 our break right now, 15-minute break. We
22 will be in recess.

23 (Recess taken.)

24 ALJ YACKNIN: We are back on the
25 record.

26 We have Mr. Pontelle. Do you have
27 redirect?

28 MR. PONTELLE: I do, your Honor. Thank

1 you.

2 REDIRECT EXAMINATION

3 BY MR. PONTELLE:

4 Q Ms. Cabbell, there was discussion
5 during the cross-examination about the
6 question of coincidence. Could you please
7 explain what you understand "coincidence" to
8 mean?

9 A Sure. "Coincidence" in this
10 context is all about timing and the timing of
11 when -- let's say Riverside system peaks
12 versus some other base, like Southern
13 California Edison or the ISO. So it is
14 really more about when the timing of their
15 peak versus another part of the system.

16 It doesn't really thrive to what
17 load level you should be studying for your
18 purposes to ensure reliability to your
19 system, or how we evaluated the Vista banks
20 to ensure that we are serving all of
21 Riverside's load.

22 Q From a planning perspective, what
23 is so critical about coincidence?

24 A It helps us to understand, you
25 know, how -- say the City of Riverside load
26 is peaking in relation to the other part of
27 the system. It is just so that it gives us a
28 reference point to understand how are we, or

1 Riverside actually, how is their system
2 peaking so that you can understand what -- a
3 value that they need to study their system.

4 Q Could I ask you please to take a
5 look at Exhibit I believe 2-X that was
6 provided earlier in the cross-examination.
7 It is the response to the data request.

8 A Sure.

9 Q Towards the bottom of the first
10 page of text there is a sentence that reads:

11 The coincidence factor of
12 the Vista Substation, both
13 A and C sections, peak load
14 and SCE peak system load is
15 0.98.

16 My question for you is: Does that
17 Vista Substation peak include just
18 Riverside's load or other additional load in
19 addition to Riverside?

20 A It includes -- it doesn't just
21 include Riverside load. It includes the
22 load, Edison's load and the City of Colton's
23 load served out of Vista. It is a total
24 customer load served out of our Vista
25 Substation.

26 Q When you say "customer," you refer
27 not just --

28 A Not just Southern California

1 Edison, but City of Riverside and City of
2 Colton.

3 Q The entirety of what Vista serves?

4 A Yes.

5 Q If I could ask you to turn to the
6 next page of text marked 2 of 3. There is
7 very similar sentence right under the
8 mathematical formula. Is the same discussion
9 applicable there as well that the coincidence
10 factor of the Vista Substation refers to all
11 of the customers served out of Vista and not
12 just Riverside?

13 A Correct.

14 Q Earlier in the cross-examination
15 there was a question, if I understood it
16 correctly, about the potential for combining
17 a revision to system operating Bulletin 32
18 such that you could parallel three
19 transformers at Vista, in combination with a
20 potential transfer of additional load to the
21 San Bernardino system. What concerns do you
22 have from a planning perspective with such a
23 strategy?

24 A First, the SB 32 is -- it is
25 activated when we have one of the
26 transformers at Vista fails. So now we are
27 left with three transformers. To implement
28 32, we actually have to open one of the

1 transformers in parallel with the two
2 remaining. So now we only have two
3 transformers serving the City of Riverside,
4 Southern California Edison, and City of
5 Colton. So that -- that is all under
6 emergency conditions.

7 Now, if we are going to look at and
8 complicate this by now trying to transfer
9 load to San Bernardino where now we have to
10 split the bus on the C section and do some
11 load manipulation out even in the Riverside
12 system to be able to transfer those
13 substations, it just becomes more and more
14 complicated as we are trying to further
15 engineer, if you will, alternatives to try to
16 solve this emergency situation.

17 The other concern that I really
18 have is now you've connected Southern
19 California Edison, City of Colton, City of
20 Riverside, and part of San Bernardino load,
21 so all connected. And now if you have a
22 single fault someplace, you are affecting a
23 wide area of load. I'm not sure how many
24 people live in those communities, but it is
25 quite a broader swath of concern that now you
26 are impacting more customers in trying to
27 solve a problem for the City of Riverside.
28 So you are cascading their issue to the rest

1 of those customers.

2 Q I think the final question I have
3 is: Even with such a strategy, even if it
4 could be implemented, would that address the
5 base case needs for the city of Riverside as
6 what RTRP is designed to respond to or is it
7 just an emergency response?

8 A It is just an emergency response.
9 It does not address our base case issues.
10 And further, it does not address the --
11 really the need to develop a diverse
12 geographic new source line to the city of
13 Riverside to continue reliable service to
14 that city.

15 Q When you say "base case," that
16 means the actual load that is being seen
17 today?

18 A Actual load that is being seen
19 today.

20 Q Normal operating conditions?

21 A Normal operating conditions, which
22 today already exceed the capacity of two
23 transformers at Vista serving City of
24 Riverside.

25 MR. PONTELLE: Your Honor, thank you.
26 I have no further redirect.

27 EXAMINATION

28 BY ALJ YACKNIN:

1 Q Before I offer additional cross, I
2 have a question for you regarding the
3 coincidence mode.

4 A Sure.

5 Q What is the relevance of the
6 coincident peak to the planning that you are
7 doing to meet the load that you are finding?
8 So you are saying that the base case, that
9 you need to build greater capacity to meet
10 forecasted load. Do you need to -- do you
11 need to build -- you are planning to meet
12 that load different if the coincident ISO
13 peak is 95 percent as opposed to 97 percent?

14 A No. I mean for what we are trying
15 to build in the capacity, or serve or
16 increase the capacity at Vista Substation, is
17 to really serve the peak that City of
18 Riverside is seeing and what they are
19 forecasting to see.

20 Q So when the -- when their peak
21 coincident is coincident with the ISO, or
22 when their peak is coincident with Edison,
23 does that change the planning that you are
24 doing?

25 A Not for the City of Riverside and
26 the transformer of banks that serve City of
27 Riverside out of Vista. Because that is
28 local -- City of Riverside is served radially

1 and locally out of our transformers. So we
2 don't consider reducing their load through a
3 coincidence factor, because we have to serve
4 whatever they are predicting and what they
5 have seen.

6 ALJ YACKNIN: Thank you.

7 Mr. Como, do you have additional
8 cross?

9 MR. COMO: Two clarification questions,
10 your Honor.

11 RE CROSS-EXAMINATION

12 BY MR. COMO:

13 Q Ms. Cabbell, when you were
14 referring to cascading effect of outage once
15 there is an emergency or contingency at the
16 Vista, would you call that an N-1-1 type of
17 effect?

18 A I don't know what to call that. It
19 would probably be an N-1-1. But it is still
20 a concern that you now have set up a system
21 that is not optimal. You split the system
22 apart, and reconnected it. And it is really
23 not optimal, so now you've exposed. And in
24 that situation, you are more in an operating
25 situation where in operations you are
26 concerned about the next contingency.

27 Q And you mentioned that you are
28 already seeing exceedances of the Vista

1 Substation. Are you referring to the two
2 transformers that are dedicated to Riverside?

3 A Yes, I am.

4 Q You are seeing exceedances through
5 that station at this point exceeding 557 MVA?

6 A 560 MVA. My understanding is the
7 peak load for the City of Riverside in 2018
8 was 611.

9 Q I'm talking about energy flying
10 into Riverside from the high bus to the low
11 bus. Is that exceeding 560 today?

12 A If it is without the Riverside
13 generation, you would be seeing that
14 exceedance, because those two transformer
15 banks are dedicated to Riverside.

16 Q You are not seeing it today?

17 A That I don't know. I don't know
18 what we've seen in 2019.

19 MR. COMO: Thank you. No more, your
20 Honor.

21 ALJ YACKNIN: Mr. Pontelle.

22 MR. PONTELLE: I don't think so, your
23 Honor.

24 ALJ YACKNIN: Thank you very much, Ms.
25 Cabbell, for your testimony. You are
26 excused.

27 THE WITNESS: Thank you. Our next
28 witnesses are from Riverside?

1 MS. SHERIFF: Yes, your Honor. We have
2 three that can appear serially or on a panel?

3 ALJ YACKNIN: Off the record.

4 (Off the record.)

5 ALJ YACKNIN: Back on the record.

6 STEPHEN LAFOND, called as a witness
7 by City of Riverside, having been
8 sworn, testified as follows:

9 THE WITNESS: I do.

10 ALJ YACKNIN: Thank you. Please have a
11 seat. State and spell your name for the
12 record.

13 THE WITNESS: My name is Stephen
14 S-t-e-p-h-e-n, Lafond, L-a-f-o-n-d.

15 ALJ YACKNIN: Please proceed.

16 MS. SHERIFF: Thank you.

17 DIRECT EXAMINATION

18 BY MS. SHERIFF:

19 Q Good morning, Mr. Lafond. Are you
20 sponsoring testimony in this proceeding?

21 A Yes, I am.

22 Q Are you sponsoring specifically in
23 what has been marked for identification
24 RIV-1, the City of Riverside Direct Testimony
25 Sections C.1 (a) through (e)?

26 A That is correct.

27 Q Do you have any corrections to this
28 testimony?

1 A I do not recall any corrections.

2 Q Are you also sponsoring in what has
3 been marked for identification Exhibit RIV-2,
4 Riverside's Rebuttal Testimony?

5 A That is correct.

6 Q Section II.C?

7 A Yes.

8 Q Do you have any corrections to this
9 portion of your testimony?

10 A I noticed one typo. This would be
11 on page 38 on line 11. A prior version
12 showed 423 megawatts, should have been
13 corrected to 425 to match the note just
14 below. Outside of that, it is correct.

15 Q Thank you, Mr. Lafond.

16 Have you reviewed your witness
17 qualifications which are attached to Exhibit
18 RIV-2?

19 A That is correct.

20 Q Are your witness qualifications
21 accurate?

22 A Yes, they are.

23 Q Was this testimony prepared by you
24 or under your supervision?

25 A Yes, it was.

26 Q Do you adopt it as your sworn
27 testimony in this proceeding?

28 A Yes, I do.

1 Q Are the facts in this testimony,
2 including the correction you just made, true
3 and correct to the best of your knowledge?

4 A Yes, they are.

5 Q And to the extent that this
6 testimony presents opinions, are those
7 opinions your best professional opinions?

8 A Yes, it is.

9 MS. SHERIFF: Thank you. Your Honor,
10 Mr. Lafond is available for
11 cross-examination.

12 ALJ YACKNIN: Thank you.

13 Before Mr. Como takes
14 cross-examination, I do want to ask for some
15 changes to be made to the face -- or
16 corrections to the face of the cover sheet.
17 And, well, let me put it this way: Riverside
18 has previously distributed a table of
19 contents. I'm not entering the tables of
20 contents that I demanded that parties provide
21 consistent with Rule 13.6(a). I did receive
22 tables of contents from several of the
23 parties, including Riverside, but I'm not
24 intending to mark them as exhibits. And I'll
25 just be using them as a tool. I hope to put
26 them into the transcript, but I don't think
27 that is necessary.

28 However, Riverside also distributed

1 this morning a change to the table of
2 contents and with some edits to the title
3 page of your Exhibit 1, RIV-1, changing the
4 names of some of your witnesses?

5 MS. SHERIFF: Yes, your Honor. Dr. Bob
6 Tang was no longer available as a witness, so
7 Mr. Stephen Lafond is now sponsoring the
8 Section II.C.1 (a) through (e) that Dr. Bob
9 Tang had previously been sponsoring.

10 Mr. George Hanson is sponsoring the
11 introduction and the conclusion, and we also
12 changed Chief Jennifer McDowell in Exhibit
13 RIV-1. She is no longer available. And her
14 portion of the testimony is now being
15 sponsored by Deputy Chief LaWayne, capital
16 L-a capital W-a-y-n-e, Hearn, H-e-a-r-n,
17 along with Mr. Mark Annas, as was previously
18 identified.]

19 ALJ YACKNIN: Thank you.

20 Mr. Como.

21 CROSS-EXAMINATION

22 BY MR. COMO:

23 Q Mr. Lafond, would you refer to
24 Exhibit RIV-02, which is your rebuttal
25 testimony, page 32, lines 19 to 22, you state
26 that overlapping outages of the Vista 220/66
27 kV transformers is a contingency that
28 requires mitigation; do you see that?

1 A Yes, I do.

2 Q And then on a related note on page
3 33, lines 17 to 19, you state that the risk
4 of Vista transformers being completely
5 unavailable is not merely theoretical.
6 There's been two such outages in the past 14
7 years, et cetera; do you see that?

8 A Yes.

9 Q Both those outages were caused by
10 faults on a subtransmission circuit between
11 Vista and the RPU network; is that right?

12 A That is correct.

13 Q What have you done to mitigate the
14 same kind of outage since that time?

15 A Okay. City of Riverside uses their
16 own planning criteria to identify
17 improvements to our 66 kV system. We have
18 upgraded line relays. We have upgraded
19 pilot-wire projection systems. We've
20 increased security of each line. We perform
21 GO 165 patrols of those lines. GO 128
22 patrols of the underground facilities. We
23 exercise line-clearance programs to inspect
24 the lines, make sure they're clear of objects
25 that would be within the appropriate limits
26 for GO 95. There's a wide range of elements
27 that we do to improve our reliability.

28 Q What specifically have you done in

1 terms of overhead and underground
2 transmission reinforcements?

3 A Okay. The current planning cycle
4 includes the RTRP, which includes extensive
5 revisions our 66 kV system. It would provide
6 extensive back ties from our existing Vista
7 interconnection to the new proposed
8 wilderness wildlife interconnection being
9 constructed as part of our RTRP.

10 We have a portion of that
11 construction already in progress because it
12 also helps us improve the reliability of our
13 RERC Units 3 and 4 and the RERC station in
14 its entirety by providing additional
15 connection points at that location.

16 Q If RTRP were not approved, do these
17 enforcements still alleviate the situation
18 that has happened before?

19 A The additional lines, the RERC
20 substation, we're constructing two new 66 kV
21 transmission lines, one to our Harvey Lynn
22 substation and to our Freeman substation.

23 The intent behind these lines, it
24 removes an operating restriction for
25 operating more than two RERC units at this
26 time without splitting the bus at the RERC
27 substation.

28 It's not really related or relevant

1 to this discussion. It's an internal
2 operating issue, but it is being constructed
3 in conjunction with RTRP as part of the
4 internal configuration.

5 Q Mr. Lafond, did you hear the
6 cross-examination of Ms. Cabbell earlier?

7 A Yes, I did.

8 Q I asked her about the ability to
9 split some of Riverside station, the buses
10 within the Riverside stations. Can you
11 comment on that? Is it possible to divert
12 some of load?

13 A Sure. Well, let's take a look in
14 the direct testimony, and you'll see a
15 diagram of the City of Riverside system.
16 It's the first figure, if I recall correctly.

17 Q Is that page 5 you're referring to?

18 A We'll get there. I'm just not
19 quite there yet. If you look at the diagram
20 on page 5, you see Vista's bus at the top
21 center of that diagram, and you see the
22 substations to be transferred in the case
23 we've discussed; University, La Colina,
24 Springs, and Orangecrest are clustered
25 towards the right-hand or eastern side of
26 system.

27 It is possible for us to transfer
28 those four stations and maintain under the

1 operating limit of the San Bernardino lines
2 by closing those lines to one bus at Vista
3 and isolating the Vista line for the
4 La Colina and University substations onto one
5 bus, retaining the remainder of the lines on
6 the other bus that continues to serve the
7 city of Riverside.

8 The additional open points that we
9 would have to carry out at that point would
10 be opening the Hunter Springs transmission
11 line at Hunter, the Riverside La Colina line
12 at Riverside, and the Freeman Orangecrest
13 line at Freeman.

14 That gives us a compact, distinct
15 load separation that achieves the goal. To
16 take any other element, we would have to
17 split a substation, so we have two operating
18 systems at a defined point within the station
19 and not planned for that.

20 So it could be confusing to
21 operators: Am I on the Vista system or am I
22 on the San Bernardino system?

23 Even with tagging and clear
24 marking, it was discussed with our operating
25 forces, and it was deemed to be an
26 inappropriate risk to inadvertent parallel
27 between the systems that would cause a
28 short-circuit, overstressed condition.

1 So the intent was transfer entire
2 substations, have clear demarcation on the
3 open points. Do not have multiple systems
4 within the same station.

5 Q So I gather you decided it's not
6 something you want to do, but it is possible
7 to split a station?

8 A It is possible, but it was
9 determined not to be a safe operating
10 practice.

11 MR. COMO: Your Honor, I have some
12 exhibits to hand out.

13 ALJ YACKNIN: Okay. We'll go off the
14 record.

15 (Off the record.)

16 ALJ YACKNIN: Back on the record.

17 I have three exhibits that I will
18 mark for identification as follows: The
19 first is a 30-odd page document entitled:
20 City of Riverside Transmission System
21 Planning Criteria 2015, and that's marked for
22 identification as Exhibit 03-X.

23 (Exhibit No. PA0-03-X was marked for
24 identification.)

25 ALJ YACKNIN: I have a document that
26 indicates: Data Request Set A.15-04-013,
27 Public Advocates Office-RIV-001, Question 01,
28 and that's marked for identification as

1 Exhibit 04-X.

2 (Exhibit No. PA0-04-X was marked for
3 identification.)

4 ALJ YACKNIN: And I have a document
5 that shows that it's Data Request Set
6 A.15-04-013, ORA-SED-001, Question 1.03, and
7 that's marked for identification as Exhibit
8 05-X.

9 (Exhibit No. PA0-05-X was marked for
10 identification.)

11 ALJ YACKNIN: Please proceed.

12 BY MR. COMO:

13 Q Mr. Lafond, on page 36 of your
14 Direct Testimony, Exhibit RIV-01?

15 A Okay.

16 Q Lines 9 to 13, you say that the --
17 you say, "Load shedding is allowed in
18 situations of multiple failures"; is that
19 right?

20 A That is correct, but it is
21 qualified. It does not state there, but when
22 you are doing load shedding, and you have an
23 opportunity to shed critical versus
24 noncritical loads, you tend to shed
25 noncritical loads as compared to critical
26 load.

27 Q Is this in conformance with your
28 own Riverside Transmission System Planning

1 Criteria?

2 A Yes, it is.

3 Q Would you look at page 7 of the
4 exhibit marked 03-X?

5 A Yes.

6 Q This is your Transmission System
7 Planning Criteria; is that correct?

8 A Yes.

9 Q Is 1.2.3 is that the planning
10 standard you're referring to?

11 A Unlikely outage conditions and
12 minus 2, loss of two, transmission elements;
13 correct.

14 Q On page 36 of your Direct Testimony
15 that's Exhibit RIV-01, lines 14 through 15;
16 do you see that?

17 A Yes.

18 Q You say, that multiple component
19 failure at Vista can cause Vista to be
20 completely out of service?

21 A That is correct.

22 Q Has that ever happened?

23 A Yes. In October 2007, there was a
24 fault on 115 kV transmission line that
25 cleared on a delay. It caused several miles
26 of that transmission line to sag into
27 under-built transmission lines and crossing
28 transmission lines serving the city of

1 Riverside, city of Colton, and other 115 kV
2 services.

3 It was a very significant event for
4 the area. It resulted in a total loss of
5 power to the city of Riverside.

6 Q If you're looking at what's been
7 marked as Exhibit 04-X --

8 A Yes.

9 Q -- this is a response that includes
10 on the last page the load duration curve.

11 A Yes, I have that.

12 Q Does this load duration curve
13 accurately represent peakiness of the
14 Riverside load or the profile, the actual
15 profile?

16 A It's similar to profiles I'm aware
17 of. I did not prepare this specific one, but
18 I understand that it may have been prepared
19 from the proper data sources.

20 Q About what percentage of the time
21 does it indicate that the gross generation --
22 excuse me -- the gross load is above the
23 capacity of the Vista substation?

24 A Okay. You would want to take a
25 horizontal line and draw it across at 560
26 megawatts, and you'll see that the generation
27 has been used to keep us from crossing that
28 line with the net load. The gross load is

1 reduced by the amount of internal system
2 generation.

3 Q And that looks like it's about
4 maybe 1 to 2 percent of the time?

5 A It would be in the range of,
6 perhaps, 4 percent.

7 ALJ YACKNIN: I'm sorry. I'm not
8 reading this graph. Am I supposed to be
9 seeing lines crossing somewhere?

10 THE WITNESS: It's missing the
11 horizontal grid, if you will, or the vertical
12 grid to help you align dots on the lines with
13 the axis.

14 BY MR. COMO:

15 Q Just so I'm clear, though, going up
16 the Y-axis to the 560 notch?

17 A 560 would be correct.

18 Q Going across until it intersects
19 the blue line; is that correct?

20 A I believe the top line is the blue
21 line.

22 Q Right. Okay. And then coming down
23 from that point, the hatches down at the
24 bottom are 2, 4, 6, 8?

25 A Correct.

26 Q Does that intersect the line before
27 the 2 or after the 2?

28 A This is not a real accurate graph,

1 but it's probably within 2 percent. It is
2 not something I would use for a math
3 reference.

4 Q Okay. Looking at your Direct
5 Testimony, Exhibit RIV-01, page 28, line 7 to
6 8?

7 A Page 28.

8 Q Page 28, lines 7 to 8?

9 A Correct.

10 Q You stated: "RTRP is needed to
11 ensure that Vista is not overloaded under
12 normal operating conditions."

13 A Correct.

14 Q Could you look at what's been
15 marked as Exhibit 07-X?

16 A We're not there yet. I've got
17 04-X, 03-X.

18 Q My confusion with the numbers.
19 It's the next one in the series.

20 ALJ YACKNIN: Five.

21 MR. COMO: 05-X.

22 THE WITNESS: 05-X. We here go.

23 MR. COMO: Thank you.

24 Q My understanding is the last page,
25 the table indicates peak-period exceedances
26 for the Riverside system when it exceeds 557
27 megawatts, which is about the limit of the
28 Vista substation to serve Riverside load.

1 A Correct.

2 Q So that last column are the
3 peak-period exceedances in percentage of time
4 over the 732 hours; is that right?

5 MS. SHERIFF: Your Honor, I would just
6 note for the record that this data response
7 was prepared by Dr. Lesch and not Mr. Lafond.

8 MR. COMO: Then I can save this
9 question or Dr. Lesch.

10 THE WITNESS: Sure.

11 BY MR. COMO:

12 Q Going onto another topic, then,
13 Mr. Lafond, on page 31 of Exhibit RIV-02, you
14 refer to the high density urban load area and
15 that's sort of a basis for a lot of
16 reliability requirements that are claimed for
17 Riverside; is that right?

18 A Yes. That is the case.

19 Q So that definition comes out of
20 CAISO planning criteria; is that correct?

21 A That is correct.

22 Q And there's a table in the planning
23 criteria that includes Riverside/San
24 Bernardino as an HDULA; is that right?

25 A It identifies Riverside and San
26 Bernardino as a high density urban area as
27 part of the 2010 U.S. census.

28 Q Actually, it identifies

1 Riverside/San Bernardino; doesn't it?

2 A Right. The entire area.

3 Q And a definition in that document
4 also says that an HDUL has to have a
5 population of at least a million people.

6 A That is correct.

7 Q What's the population of Riverside?

8 A Riverside, as I recall, is a little
9 over 330,000 directly within the city limits.

10 Q So I surmise that you believe that
11 Riverside is part of an HDULA; it is not in
12 and of itself an HDULA?

13 A I believe that would be accurate.

14 Q And in terms of looking at the
15 complete HDULA, which is considered Riverside
16 and San Bernardino, have you looked at how
17 many transmission lines intersect that area
18 and feed electricity into that area?

19 A That is outside of the city of
20 Riverside's area. That belongs to Southern
21 California Edison and under their
22 jurisdiction.

23 Q So the answer is you haven't looked
24 at that?

25 A No, I have not, other than as part
26 of FEMA, local hazard mitigation, where we
27 collaborate with County of Riverside, County
28 San Bernardino, City of Riverside and a

1 number of other cities and identify specific
2 issues that are of concern as far as
3 Lifelines.

4 Q So do you believe that all
5 subsections of an HDULA have to meet the same
6 reliability standards as the entire HDULA has
7 to meet?

8 A Again, I think you're overstating
9 it. There's specific criteria that identify
10 an area that would be a concern. You're not
11 looking into the additional items in the
12 Cal ISO criteria that would identify and
13 qualify the City of Riverside as high density
14 urban load area. When you look at that
15 particular set of criteria, City of Riverside
16 is an island with a single point of service
17 off the bulk electric system. It does not
18 have back ties to any other facilities.
19 There is no other source other than the
20 single point of service at Vista substation.

21 So for that reason, under Criterion
22 3 of the Cal ISO criteria, the City of
23 Riverside would be justified in proceeding
24 with this project on that level alone as part
25 of prudent utility planning.

26 Q Referring to your testimony on
27 RIV-02, page 39.

28 A Page 39.

1 ALJ YACKNIN: Let me interrupt here.

2 MR. COMO: Yes.

3 ALJ YACKNIN: I'm sorry, Mr. Lafond.

4 You mentioned ISO Criterion 3; was
5 that referred to in your testimony?

6 THE WITNESS: We refer to the Cal ISO
7 Transmission Planning Criteria, and it's in
8 an attachment. I will find it for you.]

9 ALJ YACKNIN: What does Criterion 3
10 say?

11 THE WITNESS: There is a quote in our
12 rebuttal testimony that refers to that
13 specifically.

14 MS. SHERIFF: On page 36.

15 THE WITNESS: Thank you. It is easier
16 on that side than up here. Okay.

17 ALJ YACKNIN: I see it. Page 36 you
18 are referring to?

19 THE WITNESS: Section 5 Criteria 3,
20 which is on lines 10 through 13 of page 36.

21 ALJ YACKNIN: Thank you. Please
22 continue.

23 BY MR. COMO:

24 Q Going to page 39 of the rebuttal
25 testimony, you speak of -- there is
26 transmission criteria don't take into account
27 probabilities of particular contingencies. I
28 was looking for the place where you determine

1 that the planning standards are deterministic
2 and don't take into account probabilities.

3 Are you familiar with the -- let me
4 ask you: Do you think Southern California
5 Edison subtransmission planning standards
6 apply to the Vista Substation design?

7 MS. SHERIFF: Subject to the objection
8 that Mr. Lafond has not reviewed the Southern
9 California Edison subtransmission planning
10 standards. And therefore, I'm not sure he
11 can actually speak to what is within those
12 planning standards, because they are
13 confidential.

14 MR. COMO: Fair enough. I'll rephrase.

15 Q Are you familiar with the planning
16 standards, the subtransmission planning
17 standards of Southern California Edison?

18 A No, I have not looked at them
19 since, I would say, 2004 when it was used as
20 one of the reference documents for developing
21 a City of Riverside subtransmission planning
22 standards.

23 Q Okay.

24 MR. COMO: I have no further questions,
25 your Honor.

26 ALJ YACKNIN: Thank you. Any redirect?

27 MS. SHERIFF: Yes, your Honor. Just a
28 very few questions.

1 ALJ YACKNIN: Please.

2 REDIRECT EXAMINATION

3 BY MS. SHERIFF:

4 Q Mr. Lafond, do you recall when Mr.
5 Como was asking you about the impact of the
6 internal Riverside reconfiguration of its
7 lines and work on Riverside's lines, whether
8 that would meet the objectives of the
9 overarching RTRP? Do you recall that
10 conversation?

11 A Yes, I do.

12 Q Very specifically, does the fact
13 that Riverside is upgrading some of its
14 internal distribution lines negate the need
15 for the RTRP?

16 A No. The RTRP project is still a
17 base assumption in their planning. The
18 internal configuration is to prepare for the
19 new interconnection once it is constructed
20 and to remove internal constraints that are
21 identified in our system planning criteria.

22 Q In the California ISO transmission
23 system planning criteria in the discussion of
24 the high density urban load area, there are
25 references to critical facilities, such as
26 hospitals, communication centers, et cetera.
27 To your knowledge, does the City of Riverside
28 host numerous such critical facilities?

1 A Yes. The City of Riverside does,
2 and it is discussed in detail as part of the
3 rebuttal testimony and as initial direct
4 testimony. We do provide, I think it is a
5 Level 2 trauma center for Riverside Community
6 Hospital. We have the Riverside Regional
7 Water Quality Control plan that processes
8 wastewater for City of Jurupa Valley, City of
9 Riverside and a number of other agencies in
10 the area. We cooperate and provide power to
11 Metropolitan Water District, and that water
12 district provides extensive water supplies to
13 the Western Municipal Water District. I
14 could go on, but to be brief, that is a few.

15 Q Thank you.

16 Mr. Como also asked you if Vista
17 Substation had ever actually gone out, and
18 you responded in the affirmative referencing
19 the October 2007 blackout. Were you working
20 that day?

21 A Yes, I was called into work. That
22 was a scheduled day off; but when the lights
23 go out, I got a call.

24 Q Can you tell us what you did? What
25 was your job that day?

26 A At that point in time I was no
27 longer the operations manager, but I had
28 extensive knowledge of the system, the

1 location of critical customers and accounts.
2 And when we had the initial line restoration
3 of the Vista-La Colina transmission line, we
4 were able to pick up approximately
5 90 megawatts of load and then get a tie into
6 our RERC generating station. At that point,
7 RERC consisted of only two units. It had
8 been down for maintenance and was coming back
9 the following week.

10 If I recall correctly, they were
11 able to get one unit started to contribute to
12 the restoration. And a second unit was not
13 yet able to start and run to contribute to
14 the restoration. The Springs Generating
15 Units were called on and were unable to
16 connect to the system because of a
17 communication failure.

18 I was responsible for the load
19 restoration that included shedding of
20 noncritical loads and picking up critical
21 loads. So for the entire duration of the
22 event, I was engaged in identifying the next
23 available substation to be picked up,
24 stripping the noncritical loads off, picking
25 up the critical loads. And in each case, you
26 shed noncritical load before picking up a
27 critical load to avoid overloading and
28 exceeding the rating of the transmission line

1 and generator combination.

2 The total outage time was a little
3 over four hours and a half where we were able
4 to get complete restoration. Writing up the
5 outage reports and all of the related
6 switching programs that were used took a
7 couple of -- four weeks after that to get
8 everything straight from records.

9 MS. SHERIFF: Thank you, Mr. Lafond. I
10 have no further redirect.

11 MR. COMO: No further questions, your
12 Honor.

13 ALJ YACKNIN: Thank you. Mr. Lafond,
14 thank you for your testimony. You are
15 excused.

16 THE WITNESS: I'm going to leave the
17 exhibits here for Dr. Lesch.

18 MS. SHERIFF: Is Dr. Lesch next in
19 order?

20 MR. COMO: Yeah.

21 SCOTT LESCH, called as a witness by
22 City of Riverside, having been sworn,
23 testified as follows:

24 THE WITNESS: Thank you.

25 ALJ YACKNIN: Please have a seat.
26 State and spell your name I do.

27 THE WITNESS: Scott Lesch, S-c-o-t-t,
28 L-e-s-c-h.

1 ALJ YACKNIN: Mr. Como, before we go
2 on, do I have -- do we want to mark this?

3 MR. COMO: Yes, your Honor. I have one
4 exhibit.

5 ALJ YACKNIN: Go ahead and proceed.
6 I'll start working on that.

7 MS. SHERIFF: Thank you, your Honor.

8 DIRECT EXAMINATION

9 BY MS. SHERIFF:

10 Q Good morning, Dr. Lesch.

11 A Good morning.

12 Q Are you sponsoring testimony in
13 this proceeding?

14 A Yes, I am.

15 Q Are you sponsoring specifically
16 what has been marked for identification as
17 RIV-1, the Direct Testimony of the City of
18 Riverside, Section II.B?

19 A Yes, I am.

20 Q And in what has been marked for
21 identification as RIV-2, the City of
22 Riverside's Rebuttal Testimony Section II.A?

23 A Yes.

24 Q Do you have any corrections to your
25 testimony, Dr. Lesch?

26 A No, I do not.

27 Q Have you reviewed your witness
28 qualifications which are attached to the

1 testimony?

2 A Yes, I have.

3 Q Are those witness qualifications
4 true and accurate?

5 A Yes, they are.

6 Q Was this testimony prepared by you
7 or under your direct supervision?

8 A Yes, it was.

9 Q Do you adopt it as your sworn
10 testimony in this proceeding?

11 A Yes, I do.

12 Q To the extent there are facts in
13 your sworn testimony, are those facts true
14 and correct to the best of your knowledge?

15 A Yes, they are.

16 Q And to the extent there are
17 opinions expressed in your testimony, are
18 those your best professional opinions?

19 A Yes, they are.

20 MS. SHERIFF: Thank you, Dr. Lesch.

21 Your Honor, Dr. Lesch is now
22 available for cross-examination.

23 ALJ YACKNIN: Thank you.

24 Mr. Como.

25 MR. COMO: Thank you, your Honor.

26 CROSS-EXAMINATION

27 BY MR. COMO:

28 Q Dr. Lesch, the exhibit in front of

1 you -- your Honor, I'm not sure it has been
2 marked.

3 ALJ YACKNIN: So are you asking to have
4 the Comparison of the CEC's Integrated Energy
5 Policy Report Demand Forecast for Riverside
6 Testimony marked as the next in order?

7 MR. COMO: Yes, your Honor.

8 ALJ YACKNIN: We will mark it now as
9 Exhibit 6-X.

10 (Exhibit No. 6-X was marked for
11 identification.)

12 MR. COMO: Thank you.

13 Q Dr. Lesch, on Exhibit RIV-2
14 page 14.

15 A Yes.

16 Q Lines 5 to 18 you are describing
17 here a conversation you had with Chris
18 Kavalec with the CEC?

19 A Yes; that is correct.

20 Q He is the -- my understanding he is
21 the head of the IEPR load forecasting unit?

22 A I don't know if he is the head of
23 it, but he is certainly one of the senior
24 members, yes.

25 Q Right. You are stating -- Mr.
26 Kavalec stated an anomaly with the
27 coincidence adjustment would be corrected in
28 the next preliminary demand forecast?

1 A That is what he stated, yes.

2 Q Would you look at what has been
3 marked as Exhibit 6-X.

4 A Mm-mm.

5 Q And what you have here, along with
6 transmitting emails to me, are the tables,
7 which I believe are those preliminary demand
8 forecast corrections. Would you agree?

9 MS. SHERIFF: I apologize, Mr. Como.
10 Could you repeat your question, please?

11 BY MR. COMO:

12 Q Do these tables from your --
13 looking at this exhibit, and we gave it to
14 you last night, do they reflect what you are
15 referring to as the preliminary demand
16 forecast corrections?

17 A I believe they do, yes.

18 Q And have you had time to look at
19 the graphs that were instructed?

20 A The graph that you present on the
21 front of the second page?

22 Q Yes.

23 A Yes, I've looked at it.

24 Q Do you think they accurately
25 represent the load demand numbers in the
26 table that follow it for the City of
27 Riverside?

28 A If you are interested in what the

1 CEC's forecast of a coincident peak is.

2 Q I'm asking you if they represent
3 what is on the table.

4 A I didn't put the graph together,
5 but I'll take your word for it.

6 Q Well, I did give it to you last
7 night.

8 (Crosstalk.)

9 ALJ YACKNIN: Don't speak over each
10 other. You can make your respective
11 indignation known in due course.

12 Does this graph -- is this graph to
13 your knowledge what it represents itself to
14 be? And I understand if you don't know or
15 haven't tested that.

16 THE WITNESS: I believe so, yes.

17 ALJ YACKNIN: Mr. Como.

18 BY MR. COMO:

19 Q Looking at the graph then, the blue
20 line represents the same 1-in-10 mid load
21 AAEE graph that was presented in Public
22 Advocates Office's testimony, does it not?

23 A Yes, it does.

24 Q And the orange line, if you will,
25 or lightly red line, I guess, is the 2018 mid
26 load with no otherwise achievable energy
27 efficiency; isn't that correct?

28 A I believe so, yes.

1 ALJ YACKNIN: Why don't we do it this
2 way. You can accept it subject to check that
3 these are, or whatever, representing --
4 Public Advocates Office is representing that
5 this graph is correctly transposing or
6 representing those numbers. Assuming that to
7 be the case, let's move on with your question
8 about what we want to learn from this graph.

9 MR. COMO: Thank you, your Honor.

10 Q The gray line then represents the
11 numbers that were on the table that follow
12 this. Do you believe that to be the -- to
13 include the coincidence adjustment that
14 Mr. Kavalec was referring to?

15 A I don't know, but I'm sure that
16 this represents a coincident peak forecast.

17 MR. COMO: No further questions, your
18 Honor.

19 ALJ YACKNIN: So Public Advocates
20 Office puts together some numbers and asks
21 the witness to say that the numbers are what
22 you say that they are, and now you want it in
23 evidence. But I don't know what your point
24 is that you want me to take from it.

25 MR. COMO: The witness testifies in
26 rebuttal testimony about a conversation with
27 a person at the CEC about a significant
28 change that is predicted in the preliminary

1 coincidence peak adjustment. And this closes
2 the loop on that conversation from the email
3 chain that precedes this.

4 ALJ YACKNIN: Does it contradict the
5 witness's statement?

6 MR. COMO: It does not contradict it,
7 your Honor. But the witness provided new
8 information in rebuttal testimony about a
9 preliminary change to load profile that the
10 CEC was going to produce. And this provides
11 the additional information that shows that in
12 fact the load profile that is provided
13 preliminarily by the CEC is in fact very
14 similar to the CEC's numbers that were
15 already provided last year.

16 ALJ YACKNIN: Thank you.

17 Is there any redirect?

18 MS. SHERIFF: Yes.

19 REDIRECT EXAMINATION

20 BY MS. SHERIFF:

21 Q Dr. Lesch, you started to indicate
22 your response regarding the use of coincident
23 peak forecast. Would you like to expand on
24 the use of a coincident peak forecast versus
25 a local area forecast for local area planning
26 purposes?

27 MR. COMO: Object, your Honor. My
28 question had nothing to do with that.

1 That is already contained in the testimony.
2 I think that just allows for additional
3 direct testimony here.

4 ALJ YACKNIN: I'll sustain the
5 objection.

6 Anything else?

7 BY MS. SHERIFF:

8 Q Dr. Lesch, you included as an
9 appendix to your rebuttal testimony, the
10 email you received from Mr. Kavalec, correct,
11 Appendix C page 56?

12 A Yes, I do. I don't have it in
13 front of me, though.

14 MR. PONTELLE: Your Honor, if I may?
15 (Document handed to the witness.)

16 ALJ YACKNIN: Yes.

17 BY MS. SHERIFF:

18 Q Do you have it now, Dr. Lesch?

19 A Yes.

20 Q If memory serves, Dr. Lesch, in
21 that email Mr. Kavalec indicated megawatt
22 range, that the correction would produce a
23 change?

24 A Yes. He said it would change the
25 beginning of the forecast by 30 to
26 50 megawatts.

27 Q Does the cross-examination
28 Exhibit 6-X in any way alter your

1 understanding of Mr. Kavalec's intent that
2 that 30 to 50 megawatt change would occur?

3 A It is less than I expected.

4 MS. SHERIFF: Okay.

5 ALJ YACKNIN: Anything further?

6 MS. SHERIFF: No. Thank you, your
7 Honor.

8 ALJ YACKNIN: Mr. Como?

9 MR. COMO: No, your Honor.

10 ALJ YACKNIN: Thank you, Dr. Lesch, for
11 your testimony. You are excused.

12 Now will you call?

13 MS. SHERIFF: Mr. Danny Garcia, Daniel
14 Garcia.

15 ALJ YACKNIN: Let's go off the record.

16 (Off the record.)

17 ALJ YACKNIN: Back on the record.

18 DANIEL GARCIA, called as a witness
19 by City of Riverside, having been
sworn, testified as follows:

20

21 THE WITNESS: I do.

22 ALJ YACKNIN: Thank you. Please have a
23 seat and state and spell your name for the
24 record.

25 THE WITNESS: Daniel Garcia,
26 D-a-n-i-e-l, G-a-r-c-i-a.

27 ALJ YACKNIN: Thank you.

28 Ms. Sheriff.

1 MS. SHERIFF: Thank you, your Honor.

2 DIRECT EXAMINATION

3 BY MS. SHERIFF:

4 Q Good morning, Mr. Garcia. Are you
5 sponsoring testimony in this proceeding?

6 A Yes, I am.

7 Q In what has been marked for
8 identification RIV-1, Riverside's direct
9 testimony, are you sponsoring Roman numeral
10 II.C.2 and I.C.3?

11 A Yes.

12 Q And in what has been marked for
13 identification as RIV-2, Riverside's rebuttal
14 testimony, are you sponsoring Section II-E
15 and II-F?

16 A Yes.

17 Q Do you have any corrections to your
18 testimony?

19 A I do not.

20 Q Have you reviewed your witness
21 qualifications which are attached to your
22 testimony?

23 A Yes, I have.

24 Q Are your witness qualifications
25 accurate?

26 A Yes.

27 Q And was this testimony prepared by
28 you or under your direct supervision?

1 A Yes.

2 Q And do you adopt this testimony as
3 your sworn testimony in this proceeding?

4 A I do.

5 Q To the extent there are facts in
6 your testimony, are they true and accurate to
7 the best of your knowledge?

8 A Yes, they are.

9 Q And to the extent there are
10 opinions in your testimony, do they reflect
11 your best professional opinions?

12 A Yes.

13 MS. SHERIFF: Thank you, Mr. Garcia.
14 Your Honor, Mr. Garcia is available for
15 cross-examination.

16 ALJ YACKNIN: Thank you. Ms. Rucker.

17 MS. RUCKER: Catherine Rucker on behalf
18 of Public Advocates Office.

19 ALJ YACKNIN: Thank you.

20 CROSS-EXAMINATION

21 BY MS. RUCKER:

22 Q Mr. Garcia, would you please refer
23 to Riverside's direct testimony page 53 lines
24 15 to 17. It states the Springs units have
25 been discontinued by the manufacturer in the
26 U.S. Is that true?

27 A That is correct.

28 Q On page 53 line 8 it states the

1 Springs units are designated as peakers for a
2 limited number of hours and starts each day
3 to meet system peak load requirements; is
4 that correct?

5 A This is correct.

6 Q Referring to Riverside's rebuttal
7 testimony page 43 lines 4 and 5, it states
8 Riverside's Springs generation facility has
9 internal gas turbine generators that were
10 manufactured by General Electric; is that
11 correct?

12 A That is correct.

13 Q Of -- states the models are GE 10s;
14 is that correct?

15 A For the Springs units, yes.

16 Q Yes?

17 A Yes.

18 Q It further states the GE 10s have
19 been discontinued; is that correct?

20 A That is correct.

21 Q What efforts has Riverside taken to
22 stockpile replacement parts for the Springs
23 generators?

24 A Normal standard practice protocol
25 that require parts be available on hand for
26 routine maintenance.

27 Q And why is such a young model
28 generator out of date?

1 A That is -- it is just the
2 perspective whether the manufacturer wants to
3 support that generator, or not. Whether it
4 is out of date, that is -- I think my
5 testimony is only to the point that the unit,
6 the unit and the parts associated with that
7 unit, are not readily available.

8 MS. RUCKER: I have no further
9 questions.

10 ALJ YACKNIN: Thank you.

11 Ms. Sheriff.

12 MS. SHERIFF: I have no recross.
13 Sorry, I have no redirect.

14 ALJ YACKNIN: Thank you. I have no
15 questions for you, Mr. Garcia. Thank you
16 very much for your testimony. You are
17 excused.

18 Let's go off the record to discuss
19 next steps.

20 Off the record.

21 (Off the record.)

22 ALJ YACKNIN: Back on the record.

23 We have excused Riverside's
24 witnesses. And I assume, Ms. Sheriff, you
25 move for receipt into evidence of Exhibits 1
26 and 2?

27 MS. SHERIFF: Yes, your Honor.
28 Exhibits RIV-1 and RIV-2, the City of

1 Riverside, would like to move those exhibits
2 into the record at this time?

3 ALJ YACKNIN: Are there any objections?

4 (No response.)

5 (Exhibit No. RIV-01 was received
6 into evidence.)

7 (Exhibit No. RIV-02 was received
8 into evidence.)

9 ALJ YACKNIN: I have one question,
10 which is just on the high level. I
11 understand obviously Riverside has an
12 interest in seeing this project go forward.
13 Does Riverside challenge the feasibility of
14 the environmentally superior alternative?

15 MS. SHERIFF: No, your Honor. At this
16 time the City of Riverside does not challenge
17 the feasibility of the environmentally
18 superior alternative.]

19 ALJ YACKNIN: And so I take it that a
20 project in a second-line configuration would
21 be acceptable to Riverside, meaning between
22 the proposed project and the Environmentally
23 Superior Alternative you don't have a
24 preference?

25 MS. SHERIFF: We have a slight
26 preference for the Hybrid project. The City
27 of Riverside has committed to supporting the
28 Hybrid project. We understand there are some

1 cost considerations for the increased
2 undergrounding in the Environmentally
3 Superior Alternative No. 1, which, I believe,
4 is the identified Environmentally Superior
5 Alternative in the Subsequent EIR. That
6 said, with that cost concern and
7 consideration, we do not see it as raising to
8 the level infeasibility.

9 ALJ YACKNIN: I mean, that's fine.
10 Thank you. Mostly, I'm just trying to clear
11 up whether there's -- we went above and
12 beyond. I'm really just trying to clear up
13 whether I'm missing any themes in the
14 testimony that I've seen. So, that's fine.

15 MS. SHERIFF: Thank you, your Honor.

16 The testimony is intended to
17 specifically address the issue of need in
18 Issues Identified 6 and 7.

19 ALJ YACKNIN: Right. Thank you.

20 RIV-01 and RIV-02 are received.

21 (Exhibit No. RIV-01, RIV-02 were
22 received into evidence.)

23 MS. SHERIFF: Thank you, your Honor.

24 ALJ YACKNIN: Mr. Como, would you like
25 to offer the cross-examination exhibits?

26 MR. COMO: Yes, your Honor.

27 I would like to move the
28 cross-examination exhibits, and I think our

1 first one was 03-X.

2 ALJ YACKNIN: Thank you. That's
3 correct. 03-X, 04-X and 05-X and 06-X.
4 Those are the cross-examination exhibits
5 associated with Riverside witnesses, and is
6 there any objection to their receipt into
7 evidence?

8 (No response.)

9 ALJ YACKNIN: There being none,
10 Exhibits 03-X, 04-X, 05-X and 06-X are
11 received.

12 (Exhibit No. PA0-03-X, PA0-04-X were
13 received into evidence.)

14 (Exhibit No. PA0-05-X, PA0-06-X were
15 received into evidence.)

16 ALJ YACKNIN: The parties have waived
17 cross-examination Cal ISO's witness John
18 Phipps. That's been marked for
19 identification as Exhibit ISO-01. And I just
20 have some, again, high level questions that I
21 hope you can answer, Mr. Pinjuv. It's very,
22 very brief testimony. And so I think I got
23 the gist of it, which is that the testimony
24 is identifying a couple of operational
25 benefits of the proposed project, and the
26 Environmentally Superior Alternative as well,
27 I assume.

28 These benefits, operational
benefits, are No. 1: Increasing the ISO's

1 access to generation resources within the
2 City of Riverside; and No. 2, simplifying and
3 automating dispatch for the Riverside
4 generation units. That hasn't been the focus
5 of the benefits or need or overriding
6 considerations that have been identified by
7 Edison and Riverside.

8 Are you suggesting that these
9 benefits on a stand-alone basis would
10 constitute overriding considerations that
11 merit approval of the project notwithstanding
12 its unavoidable environmental impacts, or is
13 this just informational?

14 MR. PINJUV: No. These are benefits
15 that we thought were in addition to the
16 benefits that were identified and are
17 separate that we haven't commented on that
18 Riverside and Edison kind of brought up, but
19 we thought that, specifically from the ISO's
20 perspective, these are individual benefits
21 that we think are important, but not
22 necessarily project benefits that would carry
23 the need for the project in and of
24 themselves, but they are in addition to the
25 things that are identified by the other
26 parties.

27 ALJ YACKNIN: I was struck that there
28 was no testimony piling on to Riverside and

1 Edison. Does ISO not take a position on the
2 need to serve Riverside load or to provide
3 Riverside with a second bulk transmission
4 line?

5 MR. PINJUV: As it was explained in, I
6 think, Riverside's testimony and Edison's
7 testimony, these facilities are not bulk
8 electric system issues, and they are not
9 things that are under the CAISO -- the ISO's
10 operational control. So we don't necessarily
11 take an issue on whether these are needed for
12 those purposes because we look at really the
13 transmission planning purposes that are based
14 on NERC standards and because they're not
15 subject to NERC standards, from our
16 perspective, we're not -- we're not planning
17 for the same reliability needs.

18 ALJ YACKNIN: Thank you.

19 Is there any objection to the
20 receipt into evidence of ISO-01?

21 MR. COMO: It's not an objection, but
22 comments of counsel are not contained in the
23 testimony. Are they to be considered
24 evidence that goes in the record that can be
25 referred to by the parties?

26 ALJ YACKNIN: It can't be considered
27 evidence because it's not evidence. I'm
28 trying to get a feel for what I'm going to --

1 how I'm to take the evidence that's been
2 presented. And this was in lieu of asking a
3 question of a witness so that we could excuse
4 the witness.

5 If you have a concern with this -- I
6 mean, I'm trying to think --

7 MR. COMO: No. Forgive me, your Honor.
8 I was just concerned about statements because
9 they are being recorded, and I just want to
10 make sure we have our chance to cross-examine
11 the witness if, in fact, that was evidence,
12 but like your Honor said, it is not.

13 ALJ YACKNIN: It is not. I appreciate
14 your concern, but I just want to get a
15 picture of who is sitting in front of me and
16 what they're advocating, but it is
17 advocacy -- argument. It's not evidence.
18 With that, then, Exhibit ISO-01 is received
19 into evidence.

20 (Exhibit No. ISO-01 was marked for
21 identification.)

22 (Exhibit No. ISO-01 was received
23 into evidence.)

24 ALJ YACKNIN: The parties have waived
25 cross-examination for the witnesses for
26 Jurupa Valley, which is presented in Exhibits
27 JUR-01, JUR-02, JUR-03, JUR-04. That's the
28 testimony of Steve Larisso, Steven H.

1 Duckett, Gary Thompson and Penny Newman
2 respectively.

3 I have, and to Mr. Como's point,
4 this gets a little bit gnarlier, but I have a
5 question for Mr. Lee. One part of
6 Ms. Newman's testimony piqued my interest or
7 piqued a question. I understand that in part
8 she testifies or asserts that the proposed
9 project, unlike the Environmentally Superior
10 Alternative, has adverse environmental
11 justice and wildfire impacts, and I do
12 understand Edison's testimony is talking
13 about all of our wildfire mitigation programs
14 that we have going, but in terms of the
15 relative fire danger, I assume that her point
16 is that if it's underground -- the part that
17 is underground is going to have less fire
18 danger than the part that is overgrounded; is
19 that correct?

20 MR. KIM: That's correct, your Honor.

21 ALJ YACKNIN: So we still have -- to
22 the extent, assuming, as she asserts, that
23 there's than an adverse fire, wildfire impact
24 associated with the overground, we still have
25 a lot of overground fire impact on that
26 basis, is that -- I mean --

27 MR. LEE: I believe that would being
28 accurate, your Honor.

1 ALJ YACKNIN: That's all I have for
2 you.

3 MR. LEE: Thank you.

4 (Exhibit No. JUR-01, JUR-02 were
5 marked for identification.)

6 (Exhibit No. JUR-03, JUR-04 were
7 marked for identification.)

8 ALJ YACKNIN: Because the parties have
9 stipulated I guess to the receipt of evidence
10 of the Jurupa Valley prepared testimonies, I
11 will now receive Exhibits JUR-01, JUR-02,
12 JUR-03, and JUR-04.

13 (Exhibit No. JUR-01, JUR-02 were
14 received into evidence.)

15 (Exhibit No. JUR-03, JUR-04 were
16 received into evidence.)

17 ALJ YACKNIN: As I mentioned before
18 Exhibit NOR-01 is not received, because I
19 don't have a party who will present it,
20 having denied Norco party status.

21 With that, we'll be in recess until
22 1:30. Thank you.

23 (Whereupon, at the hour of 11:55
24 a.m., a recess was taken until 1:30
25 p.m.)

26 * * * * *

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AFTERNOON SESSION - 1:34 P.M.

* * * * *

ALJ YACKNIN: On the record.

Mr. Como, would you like to call
your witness?

MR. COMO: Yes, your Honor.

I would like to call Steven
Shoemaker.

STEVEN SHOEMAKER, called as a
witness by PUBLIC ADVOCATES OFFICE,
having been sworn, testified as
follows:

THE WITNESS: Yes.

ALJ YACKNIN: Thank you. Please have a
seat and state and spell your name for the
record.

THE WITNESS: Sure. Steven Shoemaker;
S-T-E-V-E-N, last name, S-H-O-E-M-A-K-E-R.

BY MR. COMO:

Q Mr. Shoemaker, are you sponsoring
portions of testimony that has been marked
PA0-01 and PA0-1-C?

A Yeah.

Q Specifically, Chapters 1, 3, and 4?

A Yes.

Q Do you have any corrections to make
at this time?

A Yes.

1 Q Could you go through those?

2 A So on page 3-1 in Exhibit PA0-1-C,
3 Footnote 53, it includes a link to the
4 California Energy Commission's Demand Revised
5 Forecast Report. That link is to a local
6 file that would only work on my computer. It
7 doesn't do anyone else any good. So I would
8 like to replace that URL with a new one. And
9 I can read off the URL, if that would be
10 appropriate.

11 ALJ YACKNIN: Yes, please do.

12 THE WITNESS: Okay. So it would be
13 [https://efiling -- e-f-i-l-i-n-g --](https://efiling--e-f-i-l-i-n-g--.energy.ca.gov/GetDocument.aspx?TN=223244&DocumentContentId=28765)
14 [.energy.ca.gov/GetDocument.aspx?TN=223244&Doc](https://efiling--e-f-i-l-i-n-g--.energy.ca.gov/GetDocument.aspx?TN=223244&DocumentContentId=28765)
15 [umentContentId=28765.](https://efiling--e-f-i-l-i-n-g--.energy.ca.gov/GetDocument.aspx?TN=223244&DocumentContentId=28765)

16 And then that same link should be
17 corrected on page 3-3, Footnote 61, as well.

18 BY MR. COMO:

19 Q Mr. Shoemaker, is that correction
20 also applied to PA0-01-C -- PA0-01, as well
21 as -01-C?

22 A Yes. Yeah.

23 Q Let me make sure -- I'm sorry I
24 have to do this, but the -- that reference,
25 whenever it says -- the word "document" is in
26 the word; right?

27 A Mm-hm.

28 Q So there may have been another time

1 where you said, "D-o-c-u" and didn't spell
2 out the entire word "document"?

3 A Okay.

4 Q But each time that phrase appears,
5 it's the full word "document"?

6 A Yes.

7 Q Your Honor, if it would be helpful,
8 I could send out an e-mail to the service
9 list to make sure that everybody got that
10 correctly?

11 ALJ YACKNIN: Yes, please do.

12 MR. COMO: Okay.

13 ALJ YACKNIN: And then just check the
14 transcript.

15 BY MR. COMO: Okay.

16 Q Are there any other corrections Mr.
17 Shoemaker?

18 A On Figure 3 on page 3-10, the
19 legend for the graph is just cut off,
20 visually.

21 Q And what is it supposed to say?

22 A It's supposed to say -- the orange
23 line with rectangles on it should say:
24 "Cumulative percentage of annual generating
25 hours."

26 Q Are there any other corrections?

27 A The last one is on page 3-10.
28 Footnote 92 says:

1 That the Order Instituting
2 Investigation pursuant to
3 Senate Bill 350.

4 That should be 380.

5 ALJ YACKNIN: 380?

6 THE WITNESS: Mm-hm. 3-8-0.

7 BY MR. COMO:

8 Q Any other corrections?

9 A No.

10 Q Mr. Shoemaker, are the
11 qualifications attached to your testimony
12 still current?

13 A Yes.

14 Q Are the testimony PA0-01 and
15 PA0-01-C, are they sponsored by you?

16 A Yes.

17 Q And are they adopted by you and
18 were they prepared under your supervision?

19 A Yes.

20 MR. COMO: Your Honor, Mr. Shoemaker is
21 available for cross-examination.

22 ALJ YACKNIN: Thank you.

23 Mr. Pontelle.

24 CROSS-EXAMINATION

25 BY MR. PONTELLE: Thank you, your Honor.

26 Q Good afternoon, Mr. Shoemaker. As
27 I understand your testimony, your assertion
28 is that the CPUC should refer to the CEC's

1 forecast as a basis for its consideration of
2 need of RTRP; is that correct?

3 A Yes.

4 Q Could I ask you to please turn to
5 page 3-6 of your testimony, which I believe
6 is PA0-01.

7 Could you please read the sentence
8 starting at line 10?

9 A Sure.

10 Therefore, the Commission
11 should use the CEC's
12 forecast which is formally
13 recognized as the basis for
14 its consideration of the
15 need for the RTRP.

16 Q So do you believe that the Energy
17 Commission's forecast provides a more
18 accurate assessment of the need for RTRP than
19 Riverside's own forecast.

20 A I believe it has been designated by
21 the California Independent System Operator in
22 its transmission planning process as the
23 appropriate forecast for transmission
24 planning and that it incorporates a large and
25 comprehensive number of inputs, making it an
26 appropriate forecast.

27 Q Do you believe that also holds true
28 for a local radial system?

1 A The California ISO transmission
2 planning documentation says that for local
3 planning efforts, subject to check, that it
4 is -- the 1-in-10 forecast is appropriate.

5 Q Are aware of how the Energy
6 Commission compiled this forecast?

7 A I have a general knowledge, yes.

8 Q Do you know how the Energy
9 Commission determines a starting point for
10 its forecast?

11 A It receives inputs from the various
12 utility distribution companies and then uses
13 those inputs and applies its own methodology
14 to produce a forecast, as I understand.

15 Q Could you please turn to page 3-7
16 of your testimony?

17 A Sure.

18 Q And I won't ask you to read, again,
19 the website, but could you please read
20 Footnote 80 out loud, other than the website?

21 A Corrected LSCMBA tables,
22 mid-baseline low AAEE, AAEE CED 2018.
23 California Energy Demand Updated Forecast
24 adopted at the CEC on February 5th, 2019.

25 MR. PONTELLE: Your Honor, I would like
26 too submit an exhibit into the record. It
27 contains a series of annual forecasts
28 prepared from the -- downloaded from the CEC

1 website.

2 ALJ YACKNIN: Is that what you
3 previously distributed to me entitled "Load
4 serving entity" --

5 MR. PONTELLE: Correct, your Honor.

6 ALJ YACKNIN: "And balancing authority
7 forecasts."

8 So I have that document, and it is
9 marked for identification as Exhibit 7-X.

10 (Exhibit No. 7-X was marked for
11 identification.)

12 MR. PONTELLE: And just so -- your
13 Honor, to avoid any confusion, belt and
14 suspenders, there's a page numbering at the
15 bottom of each page, as well as the top-right
16 corner. But to avoid any confusion, they
17 should be the same page numbers, so --

18 ALJ YACKNIN: Oh, I see. Well, I
19 see --

20 MR. PONTELLE: Especially on the
21 spreadsheet pages, the numbers should be at
22 the bottom.

23 ALJ YACKNIN: I see. Thank you very
24 much. So not continuing the cover sheet,
25 that is an eight-page document.

26 MR. PONTELLE: Here you go.

27 THE WITNESS: Thank you.

28 ///

1 BY MR. PONTELLE:

2 Q Mr. Shoemaker, do you -- and just
3 for reference, the pages that do not have
4 tables on them are just cover pages from the
5 website showing where the tables were
6 accessed, just for validation purposes.

7 But Mr. Shoemaker, do you recognize
8 the tables in the exhibit?

9 A So, as I understand these, these
10 are 1-in-2 forecasts going back to previous
11 IEPR forecasts back to, I believe, 2015 --

12 Q That is correct.

13 (Crosstalk.)

14 BY MR. PONTELLE:

15 Q Do you -- are they the same type of
16 information referenced in the Footnote 80
17 that you read a moment ago?

18 A The same type, yes. Footnote 80, I
19 believe, refers to, basically, the
20 most-recent version of those documents. So
21 the 2018 updated IEPR forecast as released by
22 the CEC. Additionally, what's referenced
23 there is the 1 and 10 forecast, for the most,
24 part -- that would be Form 1.5-D, as opposed
25 to here, I believe this is the 1 and 2
26 forecasts. But, yes, it's the same type.

27 Q Would you please turn to page 3-9
28 of your testimony?

1 A Yes.

2 Q And on that page, do you see
3 Table 1?

4 A Yes.

5 Q And at the same time, would you
6 also please turn to the page labeled 2 in the
7 Exhibit 7. And if you could keep both
8 documents open, I would appreciate it.

9 A Sure.

10 Q So in Table 1 of your testimony on
11 page 3-9, could you find the column labeled
12 2015 -- excuse me -- the row labeled 20 --
13 I'm sorry. Scratch that question. Let me
14 start over please.

15 In the exhibit, would you please
16 find the column labeled "2015," and the row
17 labeled "Riverside."

18 A The column in the exhibit.

19 Okay. Yes.

20 ALJ YACKNIN: Just a minute. How far
21 down do I go to find Riverside?

22 MR. PONTELLE: It's about to two-thirds
23 of the way down under the heading "Total BANC
24 control area."

25 (Court reporter clarification.)

26 ALJ YACKNIN: Okay.

27 BY MR. PONTELLE:

28 Q Would you please read the contents

1 of that cell aloud?

2 A 5-0-7.

3 Q Now, would you please turn to
4 Table 1 of your testimony, and please read
5 what the 2015 row lists under peak gross
6 load?

7 A 5-8-5.1.

8 Q So, by my math, that's about 78
9 megawatts difference between the two
10 documents.

11 Can you explain the difference?

12 A At this time, no.

13 Q Would you please turn to page 4 of
14 the exhibit?

15 A Okay.

16 Q And similar to the last chart,
17 would you please find the row labeled
18 "Riverside," it's generally in the same place
19 on the page, and the column labeled "2016,"
20 and read the contents of that cell out loud?

21 A 5-0-4.

22 Q And now please turn to Table 1 of
23 your testimony and find the number in 2016
24 under the column peak gross load?

25 A Mm-hm.

26 Q And read that out loud, please.

27 A For 2016?

28 Q Correct.

1 A 5-9-8.6.

2 Q And so, by my math, that's about 94
3 megawatts greater than what is shown in the
4 exhibit.

5 Can you explain the different
6 between those?

7 A No --

8 (Court reporter admonition.)

9 THE WITNESS: No, not at this time.

10 Sorry.

11 BY MR. PONTELLE:

12 Q If you could please turn to page 6
13 of the exhibit, and similar to the last
14 questions, if you could find "Riverside,"
15 and, also, the first column, "2017," could
16 you please read the contents of that cell out
17 loud?

18 A 5-3-8.

19 Q And similar to as we've done in
20 Table 1, could you please read the contents
21 of Row 2017 and peak gross load?

22 A 6-4-0.3.

23 Q And so, by my math, that's about
24 102 megawatts difference.

25 Can you explain the difference
26 between those two numbers?

27 A No.

28 Q And I have one more.

1 If you could please turn to page 8
2 of the exhibit. And similar to before, if
3 you could find "Riverside" and "2018," could
4 you please read what the contents of that
5 cell would be?

6 A 5-5-2.

7 Q And in your testimony under
8 Table 1, if you could read what the contents
9 of the cell "2018" and "Peak gross load"
10 provide there?

11 A 6-1-0.9.

12 Q I'm sorry. Was that a six, ten --

13 A Six, ten, point 9.

14 Q And so, by my math, that's about 59
15 megawatts difference.

16 Can you explain that difference?

17 A No.

18 Q So is it true that in every
19 instants we just looked at, the data point
20 provided in the CEC forecast, which I see is
21 in your Table 1, is significantly lower than
22 what showed up in these tables?

23 A Yes. Although, it is important to
24 note this is a 1-in-2 peak load forecast,
25 which would be the, I guess, lowest between
26 the relevant forecasts that are used in the
27 CEC IPER process. There's 1-in-10 and then
28 1-in-5.

1 And so, therefore, the forecast
2 that is referred to the in the CAISO
3 transmission planning process is a 1-in-10
4 forecast, which is different than what is
5 here.

6 Q But my question, actually, is more
7 about the starting point than the
8 forward-looking forecast --

9 A Okay.

10 Q I mean, if -- just asking what the
11 different -- how they come up with this
12 starting point so significantly different
13 than what's actually being listed here under
14 peak gross load?

15 A I --

16 Q Do you have any explanation for
17 that?

18 A No, not at this time.

19 Q Thank you, Mr. Shoemaker.

20 MR. PONTELLE: Your Honor, I have no
21 further questions.

22 ALJ YACKNIN: Do you have redirect?

23 MR. COMO: Yes, your Honor.

24 REDIRECT EXAMINATION

25 BY MR. COMO:

26 Q Mr. Shoemaker, the tables that
27 Counsel for Edison had referred you to
28 indicate that these tables were developed

1 based on actual load data; is that correct?

2 -- if you look at the bottom of the tables?

3 MR. PONTELLE: Objection, your Honor.

4 I think that's referenced on one of the

5 tables.

6 MR. COMO: Oh --

7 THE WITNESS: Yeah.

8 MR. PONTELLE: -- the others do not say
9 that, actually. And, frankly, I'm not even
10 sure if that one is correct saying that,
11 given the statement on the other ones that
12 suggest that they are estimates.

13 BY MR. COMO: Okay.

14 Q So the forum, which is page 6 at
15 the bottom, says:

16 Table developed based on
17 actual 2017 load data.

18 Do you see that?

19 A Yes.

20 Q What would that indicate to you?

21 A That would indicate that the CEC
22 used actual 2017 load data when developing
23 those forecasts based on 2017 load data.

24 Q And if you look on page 2 of the
25 attachment, at the bottom it says:

26 Table developed based on
27 whether-adjusted 2015 peak
28 estimates.

1 What does that suggest to you?

2 A So that would suggest that a load
3 modifier was used that is based on whether to
4 create these estimates.

5 Q And if you look at page 4 --

6 A Mm-hm.

7 Q The same statement is there:

8 Table developed based on
9 whether-adjusted 2016 peak
10 estimates.

11 So I assume the same answer.

12 A Yes.

13 MR. COMO: Thank you. Nothing further,
14 your Honor.

15 ALJ YACKNIN: Can you tell me, Mr.
16 Shoemaker, so you're saying that this is --
17 this Exhibit 7-X is the 1-in-2 load --
18 mid-demand load case.

19 What is this your table on 3-9 based
20 on? I'm sure it says, but I don't want to
21 dig through.

22 THE WITNESS: So, I believe this is
23 based on what Riverside provided in their
24 opening testimony in terms of peak gross
25 load.

26 ALJ YACKNIN: The Table 1 comes from
27 Riverside's testimony?

28 THE WITNESS: I believe so.

1 ALJ YACKNIN: Okay. Thank you.

2 Anything further?

3 MR. PONTELLE: One question on recross,
4 if I may.

5 ALJ YACKNIN: Sure. Speak up, please.

6 MR. PONTELLE: Yeah.

7 RECCROSS-EXAMINATION

8 BY MR. PONTELLE:

9 Q So as I understand your answers to
10 Mr. Como, you're saying that this footnote at
11 the bottom of the table suggests that an
12 adjustment has been made for whether; is that
13 correct?

14 A That is what I'm saying based on my
15 initial reading of it right now.

16 Q So, for example, under the 2015
17 number on page -- the 2015 table -- row --
18 column -- excuse me -- on page 2 of the
19 exhibit, the number there, if I recall in
20 looking at it, shows 507, compared to your
21 Table 1 shows 585. That's roughly 78
22 megawatts of differences.

23 So does the 78-megawatt whether
24 adjustment sound reasonable to you?

25 A I'm not entirely sure.

26 Q Okay.

27 MR. PONTELLE: Your Honor, thank you.
28 I have no further questions.

1 ALJ YACKNIN: Okay. I need to look at
2 my notes. Let's go off the record.

3 (Off the record.)

4 ALJ YACKNIN: Okay. Back on the
5 record. And I have no questions. So that
6 concludes your testimony.

7 MS. SHERIFF: Oh, your Honor, I have 65
8 minutes of cross-examination --

9 (Crosstalk.)

10 (Court reporter admonition.)

11 ALJ YACKNIN: Let's go off the record
12 for a minute.

13 (Off the record.)

14 ALJ YACKNIN: Back on the record.

15 Mr. Shoemaker, you are not excused.

16 THE WITNESS: So close.

17 ALJ YACKNIN: Okay. I forgot -- I
18 overlooked the City of Riverside's
19 cross-examination, which is much heftier.

20 Please begin, Ms. Sheriff.

21 MS. SHERIFF: Thank you, your Honor.

22 CROSS-EXAMINATION

23 BY MS. SHERIFF:

24 Q Good afternoon, Mr. Shoemaker.

25 A Afternoon.

26 Q My name is Nora Sheriff. I
27 represent the City of Riverside. And I have
28 some questions for you on your prepared

1 testimony.

2 I also have some cross-examination
3 exhibits, which I believe you received
4 yesterday; correct?

5 A Correct.

6 ALJ YACKNIN: Would you like me to mark
7 those now? I can wait until you get to them.

8 MS. SHERIFF: Thank you, your Honor.
9 We can mark them now.

10 ALJ YACKNIN: Okay. I have -- the City
11 of Riverside has distributed two exhibits;
12 the first one is, counting the cover page, a
13 seven-page document entitled "Senate Bill 350
14 excerpts."

15 And that's marked for identification
16 as Exhibit 8-X.

17 (Exhibit No. 8-X was marked for
18 identification.)

19 ALJ YACKNIN: The second is a ten-page
20 document, including the cover sheet,
21 indicating that it is excerpted pages from
22 the Riverside 2018 Integrated Resource
23 Planning.

24 That's marked for identification as
25 exhibit 9-X.

26 (Exhibit No. 9-X was marked for
27 identification.)

28 ///

1 MS. SHERIFF: Thank you, your Honor.

2 BY MS. SHERIFF:

3 Q Mr. Shoemaker, before I delve into
4 my cross, I just want to make sure that your
5 Table 1 on page 3-9 of your testimony --

6 A Mm-hm.

7 Q That is based on actual peak load;
8 correct? -- those are actual peak load
9 numbers from the City of Riverside; correct?

10 A As provided in their opening
11 testimony.

12 Q Okay. Thank you.

13 Can we turn, first, to your
14 qualifications?

15 A Sure.

16 Q It's on page A-3.

17 When did you get your master's
18 degree from Humboldt State?

19 A May of 2018.

20 Q Congratulations.

21 A Thank you.

22 Q And when did you get your Political
23 Science undergraduate degree from Whitman
24 College?

25 A 2015.

26 Q And your professional experience
27 here lists three jobs.

28 Is the description of your

1 professional experience comprehensive?

2 A Yes, I believe so.

3 Q Okay. So you've never worked for
4 an electric utility that's responsible for
5 reliably serving its customers; correct?

6 A Correct.

7 Q Okay. Let's turn to load
8 forecasting.

9 And you've referenced 1-in-2,
10 1-in-10, and 1-in-20 as those concepts are
11 used in load forecasting; correct?

12 A Correct.

13 Q So you're familiar with those
14 concepts?

15 A Yes.

16 Q Okay. In your Table 1 -- and now
17 I've lost the page.

18 (Crosstalk.)

19 BY MS. SHERIFF: Thank you. 3-9.

20 Q Are you aware that the peak load
21 for Riverside in 2017 of 640.3 megawatts was
22 a mere 1-in-20 peak load event for Riverside?

23 A Yes.

24 Q Okay. Now, if a local area's
25 population were to decline, would that affect
26 its local area peak load?

27 A I think that would depend on a
28 number of factors. So, I can't say

1 absolutely that that would lead directly to a
2 reduction of a peak load.

3 Q Okay. Are you familiar with the
4 phrase *ceteris paribus*, holding all other
5 factors equal?

6 A I am not.

7 Q Okay. Well, if you say assume that
8 other factors are held constant, not
9 changing, would a decline in a local area's
10 peak load tend to impact that local area
11 doctor or a decline a local area's
12 population? Would that declining population
13 tend to impact the local area's peak load?

14 MR. COMO: Your Honor, I'm just going
15 to say this: I don't know where this is in
16 reference to Mr. Shoemaker's testimony.

17 MS. SHERIFF: He's --

18 MR. COMO: Could we just -- I mean,
19 he's not an expert on population use of
20 energy, I don't think. But if there's
21 something in the testimony that you can point
22 to that would sort of anchor the question,
23 that would be great.

24 MS. SHERIFF: He's talking about to the
25 use of forecasts and forecast methodologies.
26 And population growth, I think, is one of the
27 determining factors in developing a forecast.

28 If you don't want to offer an

1 opinion on it, then I'll move on.

2 ALJ YACKNIN: The objection is
3 overruled. You can answer if you can.

4 THE WITNESS: Okay. I don't think I
5 want to offer an opinion on all other things
6 being equal, whether a decrease in population
7 leads to a decrease in peak load.

8 BY MS. SHERIFF:

9 Q Okay. What about the impact of
10 commercial load growth, to the extent you are
11 able to offer an opinion on the impact of
12 commercial load growth or commercial load
13 decline on a peak load forecast, would that
14 impact it or not?

15 A So I think that those are both
16 factors that the California Energy Commission
17 uses in its calculations for the forecast it
18 produces, and therefore, they would both have
19 an impact on peak load growth or decline. As
20 terms of itemizing those impacts, I don't
21 have an opinion strictly on their individual
22 impact.

23 Q Okay. But if -- say, for example,
24 commercial load for were to grow or to
25 increase --

26 A Mm-hm.

27 Q -- would it be reasonable, you
28 think, to expect to see the peak load for

1 that local area to also increase?

2 A That sounds reasonable, yes.

3 Q Okay. And what if there were --
4 you know, you've talked about whether
5 impacts.

6 What if there were, say, a
7 sustained heat wave, would that also tend to
8 drive up a local area's peak load?

9 A That also sounds reasonable as one
10 factor that would impact peak load.

11 Q Okay. You're aware that the Vista
12 substation has experienced two unplanned
13 outages in the past 13 years; correct?

14 A Yes.

15 Q So when we talk about an outage at
16 the Vista substation, the two transformers
17 there, we're not talking about a hypothetical
18 possibility, we're talking about something
19 that has actually happened in recent history;
20 correct?

21 A Can you refer to where in my
22 testimony the outage of the transformers of
23 Vista is specifically referred to, in terms
24 of what I'm testifying to?

25 ALJ YACKNIN: Mr. Shoemaker, if you can
26 answer that question, answer it. It doesn't
27 require a reference to your testimony.

28 THE WITNESS: Okay. Can you please

1 repeat the question?

2 BY MS. SHERIFF:

3 Q You've said that you're aware of
4 the two outages of Vista substation.

5 So the question is:

6 We're not talking about just a
7 hypothetical possibility here when we talk
8 about the two vista substation transformers
9 going out, we're talking about something that
10 has actually happened in recent history,
11 aren't we?

12 A Yes.

13 Q Okay. If you go to page 3-1, lines
14 13 to 14, you express concern about
15 undermining the CEC's load forecasting
16 proceeding.

17 Are you familiar with Senate Bill
18 350?

19 A It was provided to me last night as
20 an exhibit. And then, also, I was broadly
21 familiar with it before.

22 Q Okay. If we turn to the last page
23 of what has been marked for identification as
24 Exhibit 8-X, this is page 7.

25 Please let me know when you're
26 there, Mr. Shoemaker.

27 A So my copy, which I printed for
28 myself, does not have the numbers that you --

1 Q It's the last page.

2 A That -- okay. I'm there.

3 Q Okay. Thank you.

4 Do you see in Section 9622, sub A,
5 where it says:

6 Integrated resource plans
7 and plan updates adopted
8 pursuant to Section 9621
9 shall be submitted to the
10 Energy Commission.

11 A Yes.

12 Q And if you turn to the prior page,
13 page 6, do you see Section 9621, sub A, near
14 the top where it says:

15 This section shall apply to
16 a local, publicly-owned
17 electric utility with an
18 annual electric demand
19 exceeding 700 gigawatt
20 hours.

21 A Yes.

22 Q Do you see that?

23 A Mm-hm.

24 Q And this statutory section
25 generally explains the Integrated Resource
26 Plan requirements applicable to local,
27 publicly-owned utilities; correct?

28 A That sounds correct, yes.

1 Q Are you aware that Riverside is a
2 local, publicly-owned utility? -- it's a
3 municipal utility?

4 A Yes.

5 Q So Riverside, pursuant to this
6 state law, provides its load forecast and its
7 integrated resource plan to the California
8 Energy Commission; correct?

9 A Correct.

10 Q Okay. And section 9622, sub B,
11 says:

12 If the Energy Commission
13 determines an integrated
14 resource plan or plan
15 update is inconsistent with
16 the requirements of
17 Section 9621, the Energy
18 Commission shall provide
19 recommendations to correct
20 the deficiencies.

21 Do you see that?

22 A Yes.

23 Q To your knowledge, has this
24 section, or these sections, of Senate Bill
25 350 been changed or amended by the
26 legislature?

27 A I --

28 MR. COMO: Objection, your Honor. That

1 calls for an area outside the witness's
2 scope. He's a technical witness, I wouldn't
3 want him -- I wouldn't expect him to be
4 questioned on what -- how the law is changed
5 over time.

6 MS. SHERIFF: Your Honor, he's talking
7 about undermining the Energy Commission's
8 load forecasting process. This is a
9 statutory section that governs the Energy
10 Commission's load forecasting process that
11 applies to publicly-owned utilities.

12 ALJ YACKNIN: Okay. The objection is
13 overruled. If you can't answer, you can say
14 so.

15 THE WITNESS: I am not aware of any
16 revisions or amendments.

17 BY MS. SHERIFF:

18 Q Okay. Would you accept, subject to
19 check, that it has not been changed.

20 A Yes.

21 Q Okay. At page 3-6, Footnote 79,
22 you reference the CPUC's Integrated Resource
23 Plan; correct?

24 A So that's a reference to a ruling
25 on the interaction between the CPUC's
26 long-term planning process and the CEC's IEPR
27 process.

28 Q Are you familiar with the CEC's

1 Integrated Resource Plan Process?

2 A Broadly, but not specifically.

3 Q Okay. If you know, does the CPUC's
4 Integrated Resource Plan Process focus on the
5 investor-owned utilities, community choice
6 aggregators and energy service providers, as
7 well as a few small multi-jurisdictional
8 utilities?

9 A I'm not sure.

10 Q Do you know that the CPUC's IRP
11 process does not include municipal utilities?

12 A I would need to check that.

13 Q So the statute that we've reviewed,
14 SB 350, states that the Energy Commission --
15 which is the agency that oversees municipal
16 utilities -- formally reviews their load
17 forecasting and Integrated Resource Planning
18 Process; correct?

19 A Correct.

20 Q Okay. And the Energy Commission is
21 the entity that would provide any
22 recommendations to Riverside, should its load
23 forecast prove deficient in any way,
24 according to the Energy Commission; correct?

25 A In the context of this IRP
26 process --

27 Q That's in the statute, Senate Bill
28 350?

1 A Yes.

2 Q Okay. Have you read Riverside's
3 rebuttal testimony in this proceeding?

4 A Yes. I don't have it in front of
5 me, but I've reviewed it.

6 Q I can get you a copy if you would
7 like.

8 A Okay.

9 Q Do you have any reason to doubt
10 Riverside's statement in its rebuttal
11 testimony that:

12 The Energy Commission has
13 approved Riverside's
14 forecast for use in
15 Riverside's Integrated
16 Resource Plan.

17 A Yes. But I would like to clarify
18 that in the context of this application, when
19 we refer to the CEC forecasting process, we
20 are referring to the process that is pointed
21 at in the CAISO's transmission planning
22 process. And that is, specifically, the IEPR
23 forecast.

24 Q For the entire CAISO system, not
25 the local area; correct?

26 A So the CAISO's transmission
27 planning process, and to the best of my
28 memory, has -- designates a suitable forecast

1 for the entire system and then suitable
2 forecast for more contained areas and,
3 therefore, recommends that those are used in
4 transmission planning.

5 Q For the purposes of Riverside's
6 local area and Riverside's 2018 Integrated
7 Resource Plan, do you have any reason to
8 doubt Riverside's testimony that states that
9 the Energy Commission approved the 2018 IRP
10 plan and the forecast that went into it?

11 A I have no reason to doubt that they
12 approved it. But that is separate from the
13 IEPR process, which is a separate forecast
14 proceeding run by the CEC. Those are
15 separate, as I understand.

16 Q Okay. Page 3-5, you reference the
17 California ISO peak load forecast and the
18 difference with Riverside's non-coincident
19 peak forecast.

20 A Mm-hm.

21 Q Can you explain, in your own words,
22 the difference between a coincident peak and
23 a non-coincident peak?

24 A So a coincident peak would be, as
25 was stated this morning, it has to do with
26 timing. The coincident peak is when a system
27 area peaks at the same time as a larger or
28 separate system area. It is basically the

1 time at which the local system peak -- as a
2 time at which -- the load measured at the
3 time at which the broader area system peaks
4 within that local area. That's the
5 coincident peak. It is coordinating the peak
6 measured within a specific area with a
7 broader area. Whereas, a non-coincident peak
8 is simply the peak load measured in a
9 specific area, irrespective of any other
10 area.

11 Q So the non-coincident peak for the
12 local area is the actual highest peak for
13 that local area; correct?

14 A Correct. Yeah.

15 Q And then the coincident peak
16 adjusts what that peak is; it's just whatever
17 that load was at the time of the broader
18 system peak; correct?

19 A That is correct. Yes.

20 Q Okay. Do you know if all of the
21 other load areas that are aggregated up into
22 the Energy Commission's coincident peak
23 analysis for the broader Edison Transmission
24 Access Charge area, or TAC area, have more
25 than one connection to the bulk electrical
26 system?

27 A I'm not sure.

28 Q Okay. Are you aware of the project

1 purpose and the objectives to be met by the
2 RTRP?

3 A Yes.

4 Q What are they?

5 A So they are twofold. One is to
6 meet Riverside's forecasted load growth
7 and --

8 Q And existing load; correct?

9 A And existing load. Yeah.

10 And the second is to provide an
11 additional connection to the bulk power
12 system.

13 Q Okay. And do you recognize that
14 that project and purpose are give driven by
15 the inadequacy of the Vista substation?

16 A Yes.

17 Q Do you know who owns the Vista
18 substation?

19 A I believe it's Southern California
20 Edison.

21 Q Do you know who operates the Vista
22 substation?

23 A I believe that is SCE.

24 Q Okay. Let's turn to your testimony
25 on page 3-9. You talk about Riverside's
26 internal generation.

27 Now, your actual work experience,
28 as stated in your statement of

1 qualifications, is with behind-the-meter
2 Solar PV installations; correct?

3 A Much of it, yes.

4 Q Okay. Are you aware that gas-fire
5 generation requires maintenance?

6 A Yes.

7 Q Okay. And are you aware that such
8 maintenance is generally performed on a
9 regularly-scheduled basis?

10 A That sounds reasonable.

11 Q Okay. Do you know the difference
12 between a base load plant and a peaker plant?

13 A As I understand it, a peaker plant
14 will be brought online when the load is high
15 enough to necessitate that. Whereas, a base
16 load would be more constant.

17 Q Okay. And do you agree that the
18 Edison TAC area peaks in the summertime?

19 A I'm not sure. But that sounds
20 reasonable.

21 Q Okay. And what about the City of
22 Riverside?

23 Do you know whether or not the City
24 of Riverside peaks in the summertime as well?

25 A That sounds reasonable.

26 Q Okay. So would you agree that it
27 would be reasonable in California for a
28 utility or generation owner to schedule its

1 maintenance of its peaker plants in the fall,
2 not in the summertime?

3 A In Southern California, yes.

4 Q Okay. And that way, they would try
5 to avoid having that peaker plant being out
6 for maintenance during high-load days; right?

7 A That makes sense.

8 Q Okay. Are you aware that there can
9 be communication issues with generators?

10 A Can you describe communication
11 issues?

12 Q Were you here this morning when
13 Mr. Steven Lafond was being cross-examined by
14 your counsel, Mr. Como. And he described the
15 October 2007 blackout that was experienced by
16 the entire City of Riverside. And he stated
17 that the Springs peaker plants, they tried to
18 bring them online, but there was a
19 communication issue with the generation. So
20 those peaker plants would could not be
21 brought online.

22 A I was here, yes.

23 Q Okay. So you're aware that there
24 can be communication issues with peaking
25 generation plants; correct?

26 A That's not something I have
27 specific experience with. But I will take
28 Mr. Lafond at his word. That sounds

1 reasonable.

2 Q So looking at your testimony, lines
3 9 through 10, you say:

4 Riverside has not provided
5 data that shows that the
6 work units cannot continue
7 to do so, which means
8 perform reliably well
9 outside of high-demand
10 hours.

11 They could be out on maintenance,
12 couldn't they?

13 A That's possible.

14 Q Okay. At page 3-11, you argue
15 that:

16 Riverside should directly
17 address its gas supply
18 issues that might be caused
19 by the problems with Aliso
20 Canyon.

21 Correct?

22 A Correct.

23 Q Isn't direct engagement with
24 SoCalGas Company and the California ISO
25 directly addressing the issue?

26 A Are you referring to Riverside's
27 rebuttal testimony where they described their
28 engagement to -- with the ISO and with the

1 PUC to address this issue?

2 Q The ISO and with the gas company to
3 directly address the issue.

4 Isn't that direct engagement?

5 A That sounds reasonable.

6 Q Okay. And what about direct
7 engagement with the California legislature to
8 try to resolve Aliso Canyon gas supply
9 concerns.

10 Isn't that also trying to directly
11 address the issue?

12 A Are you describing actions that
13 have been taken by Riverside to engage with
14 the legislature?

15 Q Yes. As they discussed in their
16 rebuttal testimony, that direct engagement
17 with member of legislature, I'm asking you
18 now, isn't that trying to directly address
19 this issue?

20 A That sounds reasonable, yes.

21 Q Okay. Can we please turn now to
22 what has been marked for identification as
23 Exhibit 9-X? And these are the pages from
24 Riverside's 2018 Integrated Resource Plan,
25 which you reference in your testimony,
26 Mr. Shoemaker --

27 A Do you have a copy of that?

28 Q Oh, I --

1 A I don't believe I received one.

2 Q I think I gave all of my copies
3 away.

4 MR. PONTELLE: He can have mine.

5 MS. SHERIFF: Okay. Thank you.

6 MR. PONTELLE: Your Honor all I did was
7 write 9-X on the front.

8 ALJ YACKNIN: Thank you.

9 THE WITNESS: Thank you.

10 BY MS. SHERIFF:

11 Q Do you have a copy?

12 A Yes, I do.

13 Q Okay. And you reference the
14 Riverside 2018 Integrated Resource Plan on
15 page 3-12 of your testimony?

16 A Yes.

17 Q Okay. Do you see on the last two
18 pages of this exhibit, there are two pages
19 from the IRP that you reference, where it
20 talks about the Southern California LMS100
21 gas-fired generating station?

22 A So just under the heading 12.3?

23 Q Yes.

24 A Yeah. Okay.

25 Q Do you see where it says it's
26 located in Southern California?

27 A Yes.

28 Q Are you aware that it's actually

1 not located within the City of Riverside?

2 A Yes.

3 Q It's located outside the City of
4 Riverside?

5 A Yes.

6 Q So any power produced by that
7 gas-fire generation, if it were going to be
8 delivered to the City of Riverside, would
9 have to go through the Vista substation;
10 correct?

11 A That sounds reasonable. Yeah.

12 Q Okay. So since this gas-fired
13 power plant is not within the City of
14 Riverside and would have to be delivered
15 through the Vista substation to serve
16 internal Riverside load, it actually doesn't
17 do anything to relieve the constraints on
18 capacity at Vista, does it?

19 A No.

20 Q Okay.

21 ALJ YACKNIN: Excuse me. When you're
22 saying "this power plant," is this an IPP
23 repowering project? What is it? I don't see
24 if name.

25 MS. SHERIFF: This is the ten-year
26 toling contract beginning in 2023 for an
27 existing LMS100 generation facility.

28 ALJ YACKNIN: Okay.

1 MS. SHERIFF: Located in southern
2 California.

3 (Crosstalk.)

4 ALJ YACKNIN: So it's at that -- I see
5 it's at the subsection 1, or something like
6 that.

7 MS. SHERIFF: Yes.

8 ALJ YACKNIN: Okay. Thank you.

9 BY MS. SHERIFF:

10 Q And then, are you familiar with
11 Senate Bill 100?

12 A Broadly, that's 100 percent
13 renewable energy.

14 Q 100-percent clean, carbon-free
15 energy by 2045; correct?

16 A That sounds right.

17 Q Okay. So on the last page of this
18 cross-examination exhibit, we see the toling
19 start date and the toling end date. The
20 toling end date is July 21st, 2033; correct?
21 -- for this gas-fired power plant?

22 A Correct.

23 Q Okay. Do you understand that the
24 City of Riverside would not necessarily want
25 to enter into long-term subsequent agreements
26 after this, because they need to comply with
27 Senate Bill 100?

28 A That sounds reasonable.

1 Q Okay. Now, in the last portion of
2 your testimony, in Chapter 4, you discuss
3 assignment of the costs of RTRP.

4 Are you familiar with the Federal
5 Energy Regulatory Commission?

6 A Yes.

7 Q Okay. Are you aware that the
8 Federal Energy Regulatory Commission has
9 jurisdiction over transmission cost
10 allocation?

11 A So transmission rate cases are
12 approved by the Federal Energy Regulatory
13 Commission --

14 Q Mm-hm.

15 A -- however, the finding of a
16 maximum cost, and in addition to that,
17 discussion of the whom that cost falls upon,
18 the cost burden, has been the subject of
19 transmission proceedings, very similar to
20 this one, as I understand it.

21 Q Thank you, Mr. Shoemaker.

22 MS. SHERIFF: Your Honor, I have
23 nothing further.

24 MR. COMO: I have no redirect,
25 your Honor.

26 ALJ YACKNIN: Okay. And I have nothing
27 further for you either, Mr. Shoemaker. So
28 thank you for your testimony, and you are

1 excused.

2 And we can take a 15-minute break.

3 (Recess taken.)]

4 ALJ YACKNIN: Shall we take care of
5 Public Advocates Office exhibits, Mr. Como.

6 Can I have you move in or would you
7 like to move in Exhibits PA0-01 and PA0-01-C?

8 MR. COMO: Yes, your Honor.

9 ALJ YACKNIN: Is there any objection?

10 (No response.)

11 ALJ YACKNIN: There being none, they
12 are received and the correlated
13 cross-examination exhibits.

14 (Exhibit No. PA0-01 was received
15 into evidence.)

16 (Exhibit No. PA0-01-C was received
17 into evidence.)

18 ALJ YACKNIN: Edison's Exhibit 07-X.

19 Any objection to its receipt?

20 (No response.)

21 ALJ YACKNIN: It is received.

22 (Exhibit No. SCE-07-X was received
23 into evidence.)

24 (Exhibit No. RIV-08-X was received
25 into evidence.)

26 (Exhibit No. RIV-09-X was received
27 into evidence.)

28 ALJ YACKNIN: And Riverside's Exhibits
08-X and 09-X.

(No response.)

1 ALJ YACKNIN: Hearing no objections,
2 they are received.

3 MS. SHERIFF: Thank you, your Honor.

4 ALJ YACKNIN: Mr. Pontelle, can you
5 call your next witness.

6 MR. PONTELLE: Yes. Thank you, your
7 Honor.

8 Southern California Edison calls
9 Gary Busted to the stand, please.

10 GARY BUSTEED, called as a witness by
11 SCE, having been sworn, testified as
12 follows:

12 ALJ YACKNIN: Thank you. Please state
13 and spell your name for the record.

14 THE WITNESS: Gary, G-a-r-y, Busted,
15 B-u-s-t-e-e-d.

16 MR. PONTELLE: Thank you, your Honor.

17 DIRECT EXAMINATION

18 BY MR. PONTELLE:

19 Q Good afternoon, Mr. Busted. Are
20 you sponsoring testimony in this proceeding?

21 A Yes, I am.

22 Q Specifically, are you sponsoring a
23 portion of SCE's Rebuttal Testimony entitled:
24 Southern California Edison Company's Rebuttal
25 Testimony Supporting Its Application for a
26 Certificate of Public Convenience and
27 Necessity for the Riverside Transmission
28 Reliability Project, both Confidential and

1 Public versions that have been marked as
2 Exhibits SCE-02 and SCE-02-C, and were served
3 on August 16, 2019, namely, Section Roman
4 Numeral VII of that rebuttal?

5 A Yes.

6 Q Are there any corrections you would
7 like to make to that testimony?

8 A Not that I'm aware of, no.

9 Q Have you reviewed your witness
10 qualifications incorporated in that
11 testimony?

12 A Yes.

13 Q Are they true and accurate to your
14 knowledge?

15 A Yes.

16 Q Do you adopt Section VII of the
17 Rebuttal Testimony as part of your sworn
18 testimony in this proceeding?

19 A Yes.

20 Q Was the material therein prepared
21 by you or under your supervision?

22 A Yes, it was.

23 MR. PONTELLE: Thank you, your Honor.
24 I have no further questions. Mr. Busted is
25 available for cross-examination.

26 ALJ YACKNIN: And I understand that I
27 have cross-examination from the City of
28 Jurupa Valley.

1 MR. KIM: I believe that Jurupa Valley
2 will be the only cross-examining party.

3 ALJ YACKNIN: Thank you very
4 much, Mr. Kim.

5 MR. KIM: And, your Honor, I will be
6 referring from time to time to the Public
7 Version of the SCE Rebuttal Testimony, and I
8 believe that is Exhibit No. SCE-02.

9 CROSS-EXAMINATION

10 BY MR. KIM:

11 Q Mr. Busteed, do you have that
12 rebuttal testimony in front of you?

13 A Yes, sir, I do.

14 Q Thank you.

15 I would like to direct you to page
16 95 and that is the first page of your
17 rebuttal testimony.

18 A Okay.

19 Q Specifically lines 7 through 12,
20 which is your qualifications.

21 A Uh-huh.

22 Q So if I'm reading your
23 qualifications correctly, you got a Master's
24 Degree in Biology in 2003; correct?

25 A That's correct.

26 Q And then in 1997, you got a
27 Bachelor's Degree in Wildlife Fisheries
28 Biology?

1 A That's correct.

2 Q Have you received any degrees since
3 2003?

4 A Not that I'm aware of.

5 Q So you haven't received any degree
6 in urban planning, for example?

7 A No.

8 Q And you have no accreditation or
9 licenses related to urban planning
10 whatsoever; correct?

11 A No, sir.

12 Q And then I'll refer you to the next
13 sentence where you talk about, you spent more
14 than a decade with SCE, and then 10 years
15 with the federal government and it looks like
16 the 10 years with the federal government were
17 with the National Forest Service; is that
18 correct?

19 A No. It's the National Park
20 Service.

21 Q I apologize.

22 A No. That's okay.

23 Q So the 10 years was at the National
24 Park Service when you worked for the federal
25 government; is that correct?

26 A Yes, sir.

27 Q So your employment does not include
28 any employment with any municipality or city

1 or county; is that correct?

2 A No, it does not.

3 Q So I would like now to direct you
4 to page 96 and that's the next page, and
5 specifically lines 13 through 19, and in
6 those lines 13 through 19, you've identified
7 three factors in subsection a, b, and c that
8 are factors to consider to determine whether
9 a certain community is a disadvantaged
10 community within Senate Bill 535; correct?

11 A Yes. May I elaborate?

12 Q Sure.

13 A So these are the factors that goes
14 into California EnviroScreen. So it takes a
15 look at environmental exposures,
16 environmental hazards like proximity to waste
17 dumps, and then also looks at socioeconomic
18 factors as well as health risks.

19 So there's four factors. Those
20 actually are compiled based on census tract
21 that determines a California environmental
22 score. Based on that score, 75 percent or
23 higher, is what SB 535 deems as
24 disadvantaged.

25 Q But those aren't the only factors
26 that can be take into consideration as to
27 whether a certain community is a
28 disadvantaged community; correct?

1 A Could you elaborate, please?

2 Q So the simple question: There are
3 other factors that could play into the
4 determination of a disadvantaged community;
5 correct?

6 A As far as I'm aware with SB 535,
7 they use the California EnviroScreen scores
8 to determine disadvantaged. And with regard
9 to the testimony, when we refer to
10 disadvantaged, I refer to California
11 EnviroScreen as far as the scores and the
12 definition of SB 535.

13 Q And thank you for the explanation,
14 but when I ask a yes or no question, in fact,
15 I'd ask you to limit yourself to a yes or no;
16 is that okay?

17 A That's fine, sir.

18 Q Thank you.

19 For example, what about areas with
20 concentration of people who are of low
21 income? Would that possibly be a factor in
22 determining a disadvantaged community?

23 A Under SB 535, as I understand it,
24 sir, is that it looks at a number of
25 different factors. As I said before, there's
26 a --

27 Q Witness, I'm asking you a yes or no
28 question. Is there no way that you can

1 answer whether a, you know -- a area with low
2 concentration of people that are of low
3 income is not a factor?

4 A It's a factor --

5 Q That's all I wanted to know. Thank
6 you.

7 ALJ YACKNIN: We do let witnesses
8 finish their answers. You can move to strike
9 if it's nonresponsive, but, please, don't
10 talk over each other.

11 MR. KIM: Thank you. I apologize, your
12 Honor. I did admonish the witness once.

13 ALJ YACKNIN: Right. That's my job to
14 do the admonishing.

15 MR. KIM: Sorry, your Honor.

16 Q What about high employment? Can
17 high unemployment be a -- can -- high
18 unemployment, can that be a factor in
19 determining a disadvantaged community under
20 SB 535?

21 A It can be a factor in determining
22 disadvantaged communities, yes.

23 Q What about low levels of home
24 ownership; can that also be a factor?

25 A Low levels of home ownership, I
26 think it's -- under the California
27 EnviroScreen, it has to do with
28 affordability. Not necessary low home

1 ownership, as I understand it, sir.

2 Q What about high rent burden; can
3 that be a factor?

4 A I think that's all that one same
5 factor under California EnviroScreen.

6 Q And also with sensitive
7 populations, also a factor; correct?

8 A Sensitive populations, if you're
9 referring to health risks, there's a number
10 of different sensitive health risks under the
11 four categories under California
12 EnviroScreen, yes.

13 Q Do you dispute that the entire
14 proposed overhead alignment of RTRP in the
15 City of Jurupa Valley is in a designated 535
16 disadvantaged community?

17 A No, I did not.

18 Q In your testimony, you said that
19 you reviewed Gary Thompson's testimony; is
20 that correct?

21 A Yes, sir, I did.

22 Q And so, if you did, then I imagine
23 you have some recollection of Mr. Thompson
24 talking about the City of Jurupa Valley's
25 General Plan; correct?

26 A Yes, sir.

27 Q And I reviewed your testimony and
28 it contains no analysis of whether the

1 proposed RTRP in any way complies with the
2 city's general plan; is that correct?

3 MR. PONTELLE: Objection, your Honor.
4 That's a legal conclusion about the general
5 plan and the effect on the transmission
6 project.

7 ALJ YACKNIN: I believe the question
8 was that Mr. Busteed's testimony addresses
9 the plan; is that correct?

10 MR. KIM: That's correct.

11 ALJ YACKNIN: You can answer.

12 THE WITNESS: I don't believe my
13 testimony addressed the general plan, no.

14 BY MR. KIM:

15 Q So your testimony didn't provide an
16 opinion on whether the proposed RTRP project
17 in any way conflicts or complies with the
18 general plan; correct?

19 A As far as an opinion on whether or
20 not the project conflicts with the plan, I
21 didn't review the general plan, sir, in terms
22 of how it conflicts.

23 Q And when you reviewed the general
24 plan and reviewed Mr. Thompson's testimony,
25 did you become aware that there's certain
26 defined terms and categories such as
27 "community values" in the city's general
28 plan?

1 A I'm aware in the general plan they
2 do discuss community values and
3 Mr. Thompson's testimony did refer to
4 community values, but in regard to my
5 testimony, I didn't refer to his comments
6 regarding community values.

7 Q And if I were to tell you that the
8 city's community values, which is a part of
9 its general plan, included components such as
10 open space and visual quality, a small town
11 feel, and active outdoor life, would you
12 disagree with that statement?

13 MR. FOREST: Objection, your Honor.
14 The testimony of Mr. Thompson speaks for
15 itself and Mr. Busted is not an expert to
16 opine upon Mr. Thompson's testimony.

17 ALJ YACKNIN: I'm not sure what you're
18 cross-examining about.

19 MR. KIM: Sure. Let me ask it
20 separately.

21 Q Mr. Busted, do you know whether --
22 what are the components of the city's
23 community values in its general plan?

24 A Like I said, sorry, I didn't review
25 general plan terms, and I'm not an expert on
26 that.

27 Q I didn't catch the last sentence.

28 A I'm sorry. I'm not an expert on

1 the general plan and I didn't review it.

2 Q I apologize. I thought you said
3 you weren't an expert in something.

4 A I was not an expert on your general
5 plan, sir.

6 Q And so I reviewed your testimony
7 and there is no testimony in there as to
8 whether the RTRP, to what extent it impacts
9 the city's community values; correct?

10 And I mean Community Values as in
11 initial cap as defined in the general plan.

12 A I'm sorry. Could you repeat that
13 one more time, sir?

14 Q Sure. Did your testimony, your
15 rebuttal testimony, in any way specifically
16 address whether RTRP project complies or
17 conflicts with the City's general plan and
18 community values?

19 A No, my testimony did not -- my
20 rebuttal testimony did not address your
21 general plan's community values.

22 Q So your rebuttal testimony did not
23 address open space and visual quality impacts
24 of the RTRP in the City of Jurupa Valley?

25 A No, sir. The Subsequent EIR that
26 came out in 2018 and the Final EIR that came
27 out in 2013 addresses things such as
28 recreation and esthetics.

1 Q So the answer was "no" to my
2 specific question; correct?

3 A Yes.

4 Q And the same question: So your
5 specific question didn't address the RTRP's
6 impact on the small-town feel of the City of
7 Jurupa Valley; correct?

8 A No, it didn't.

9 Q And neither did your testimony have
10 any specific testimony regarding the impact
11 of the RTRP on the outdoor life in Jurupa
12 Valley; correct?

13 A My testimony did not, no.

14 Q And in reviewing both Ms. Newman's
15 and Mr. Thompson's testimony -- and let me
16 just take a step back.

17 Your testimony also stated that you
18 reviewed Ms. Penny Newman's testimony; is
19 that correct?

20 A Yes, sir, that is correct.

21 Q And so in both those testimonies,
22 do you recall some discussions regarding the
23 CPUC's Environmental and Social Justice
24 Action Plan?

25 MR. FOREST: Again, your Honor, those
26 testimonies speak for themselves.

27 ALJ YACKNIN: Can you repeat the
28 question?

1 BY MR. KIM:

2 Q Do you recall reading in both those
3 testimonies of Ms. Newman and Mr. Thompson,
4 any discussion regarding the CPUC's
5 Environmental and Social Justice Action Plan?

6 ALJ YACKNIN: Overruled; you can
7 answer.

8 THE WITNESS: Yeah. I am aware that
9 they referred to the February 2019 Action
10 Plan, yes.

11 BY MR. KIM:

12 Q If I were to tell you that one of
13 the stated purposes of the CPUC's -- stated
14 purposes of the CPUC's Environmental and
15 Social Justice Action Plan is to protect
16 environmental justice and social justice in
17 communities; would you disagree?

18 A The action plan does take those
19 things into consideration, yes.

20 Q And are you aware that CPUC's
21 Environmental and Social Justice Action Plan
22 has nine stated goals?

23 A That sounds about right, yes. I
24 can't recall without looking at the actual
25 plan, but I believe it is nine.

26 Q When I was reviewing your
27 testimony, it did not specifically address
28 whether the RTRP project complied or failed

1 to meet the CPUC's Environmental and Social
2 Justice Action Plan; correct?

3 A The FEIR came out in 2018, but the
4 action plan actually came out in 2019. I
5 believe they had open comment period in
6 August, so we wouldn't have had an
7 opportunity to look at that before the FEIR
8 came out -- so I'm sorry -- until the
9 Subsequent EIR came out.

10 Q Last question. I reviewed your
11 testimony, and I didn't see any evidence of
12 any surveys or testimonies taken of city
13 residents and how they perceived the impact
14 of the RTRP project on them.

15 Was any such survey taken by you
16 personally?

17 A No, sir. As far as the outreach,
18 I'm not aware of all that CPUC's consultants
19 did as far as reaching out to the community.

20 Q But none by you?

21 A No, sir.

22 MR. KIM: No further questions.

23 ALJ YACKNIN: Any redirect?

24 MR. PONTELLE: I do not have any, your
25 Honor. Thank you.

26 ALJ YACKNIN: And I have none. Thank
27 you for your testimony. You are excused.

28 Let's go off the record.

1 (Off the record.)

2 ALJ YACKNIN: Back on the record.

3 Mr. Forest.

4 MR. FOREST: Your Honor, Southern
5 California Edison would like to call Roman
6 Vazquez to the stand.

7 ROMAN VAZQUEZ, called as a witness
8 by SCE, having been sworn, testified as
9 follows:

9 THE WITNESS: I do.

10 ALJ YACKNIN: Thank you. Please have a
11 seat and state and spell your name.

12 THE WITNESS: Roman Vazquez, R-o-m-a-n,
13 V-a-z-q-u-e-z.

14 DIRECT EXAMINATION

15 BY MR. FOREST:

16 Q Good afternoon, Mr. Vazquez.

17 A Good afternoon.

18 Q Are you sponsoring testimony in
19 this proceeding?

20 A Yes, I am.

21 Q Specifically, are you sponsoring a
22 portion of Southern California Edison's
23 Rebuttal Testimony entitled: Southern
24 California Edison Company's U338-E Direct
25 Testimony Supporting its Application for a
26 Certificate of Public Convenience and
27 Necessity for the Riverside Transmission
28 Reliability Project, both the Confidential

1 Public versions, submitted on August 16,
2 2019, and, namely, Section Roman VI of that
3 testimony?

4 A Was that the direct or rebuttal?

5 Q The rebuttal.

6 A Rebuttal, correct.

7 Q Are there any corrections that you
8 have to make to that testimony?

9 A Not at the moment.

10 Q Have you reviewed your witness
11 qualifications incorporated in that
12 testimony?

13 A Yes, I have.

14 Q Do you adopt Section VI of the
15 rebuttal testimony as part of your sworn
16 testimony in this proceeding?

17 A Section VI, yes.

18 Q Was the material therein prepared
19 by you or under your supervision?

20 A Yes, it was.

21 MR. FOREST: And Roman Vazquez, your
22 Honor, is hereby made available for
23 cross-examination.

24 ALJ YACKNIN: Thank you.

25 Mr. Day.

26 CROSS-EXAMINATION

27 BY MR. DAY:

28 Q Good afternoon, Mr. Vazquez. It's

1 been awhile since we've been in this
2 position.

3 A It has been a while. Good
4 afternoon.

5 Q You did testify on behalf of
6 Southern California Edison in the TRTP
7 proceeding for 500 kV transmission line; is
8 that correct?

9 A That is correct.

10 Q And you were involved in the design
11 and engineering of that project for the
12 company?

13 A Yes, I was. I was the chief
14 engineer.

15 MR. DAY: Okay. There are a number of
16 things I would like to get into today, but I
17 have distributed a couple of exhibits I would
18 like to mark, your Honor, for identification
19 so we could start the process.

20 The first is one which is titled:
21 "EPRI Technical Report, Mechanical Effects on
22 Extruded Dielectric Cables and Joints
23 Installed in Underground Transmission Systems
24 in North America, Excerpt."

25 If we could mark that as the first
26 cross-examination exhibit for Sky Country.

27 ALJ YACKNIN: Okay. It's next in
28 order, Exhibit 10-X.

1 MR. DAY: Okay. Thank you.

2 (Exhibit No. SKY-10-X was marked for
3 identification.)

4 MR. DAY: Then just for identification,
5 we also distributed a compilation of
6 responses of Southern California Edison
7 Company various data requests, and we'd like
8 to ask that be marked as the next exhibit in
9 order for identification.

10 ALJ YACKNIN: Yes, I have that. It's
11 22 pages including the cover, and that's
12 marked as Exhibit 11-X.

13 MR. DAY: All right. Thank you.

14 (Exhibit No. SKY-11-X was marked for
15 identification.)

16 BY MR. DAY:

17 Q Now, before we turn to those
18 particular exhibits, I'd like to ask you,
19 Mr. Vazquez, about two attachments that were
20 provided with your rebuttal testimony, and I
21 think we referenced them off the record as
22 attachment Roman Numeral VI-2 and Roman
23 Numeral VI-3. Do you have those at your
24 disposal?

25 A I'm going through my copy here.

26 Q Let's start with VI-2.

27 A Yeah. The PG&E Jefferson Martin
28 presentation?

29 Q Yes.

1 ALJ YACKNIN: Can we go off the record?
2 (Off the record.)
3 ALJ YACKNIN: Let's go back on the
4 record.
5 BY MR. DAY:
6 Q So this attachment to your
7 testimony, Mr. Vazquez, is sort of a
8 slideshow presentation or Power Point about
9 the PG&E Jefferson Martin 230 kV Transmission
10 Project?
11 A That's correct.
12 Q What was the purpose of including
13 this as an attachment to your testimony?
14 A I believe Mr. Platt's testimony was
15 making reference to a couple other reference
16 transmission lines that he used for reference
17 for his testimony.
18 Q Right.
19 A One of them was the Jefferson
20 Martin Project. So I just wanted to
21 validate, just for myself, that I understood
22 the size of the cable that they were using.
23 On page 5, they make reference to the cable
24 size.
25 Q Right. And there's also been a 230
26 kV underground line constructed by San Diego
27 Gas & Electric as part of the Sunrise
28 Project; does that meet your understanding?

1 A That's correct.

2 Q Was there a very short one as part
3 of the Southern Orange County Reinforce
4 Project? SOCRE, I believe, is the acronym.

5 A I'm aware of the Sunrise Project.
6 I'm not as aware of the Southern Orange
7 County one.

8 Q That's fine.

9 To your knowledge, have 230 kV
10 transmission projects in California been
11 built with several different cable sizes,
12 like 15 Kcmil, 4,000 Kcmil?

13 A Not validating your numbers, but
14 there has been a variety of sizes.

15 Q Would you turn to page 5 of your
16 attachment?

17 MR. FOREST: Page 5 of what?

18 THE WITNESS: Jefferson Martin
19 presentation.

20 BY MR. DAY:

21 Q Yes. That shows a cross-section of
22 the cable that's involved here?

23 A That's correct.

24 Q Below it, you see these cables
25 crossing in front of the wall in these
26 various racks. What does that depict?

27 A My assumption is that was inside of
28 a vault, and I see three splices on bracking

1 in a fault.

2 Q The splices are the larger diameter
3 bundles that attach --

4 A Yes. I'm sorry. Larger diameter
5 yellow objects, yes.

6 Q Got it. Thank you very much.

7 Then if we could turn to the other
8 attachment that we referenced, which was
9 Roman Numeral VI-3?

10 A Yes.

11 Q I believe this is represented to be
12 an article in the publication called T & D
13 World, which you are co-author to; is that
14 right?

15 A I am, yes.

16 Q So this was written or published in
17 2017 after the completion of the TRTP 500 kV
18 Transmission Line Project; is that correct?

19 A That is correct. And specifically
20 related to the engineering that went in
21 behind the design of the 500 kV underground
22 section.

23 MR. DAY: Okay. And I took this right
24 out of Edison's attachment, and I have to
25 apologize, your Honor, because I now see that
26 it lacks pagination, but we'll try to soldier
27 on, or we can try to write them by hand.

28 ALJ YACKNIN: Are you talking about

1 10-X or 11-X?

2 MR. DAY: No. No. No. I'm talking
3 about Edison's Roman Numeral VI-3.

4 ALJ YACKNIN: That's not your fault.

5 MR. DAY: Dodged another one.

6 Q Mr. Vazquez, I think we can work
7 through this. On the second page of text,
8 this attachment, the last full paragraph on
9 the page, you talk about the fact that this
10 SCE underground project, referring to the
11 TRTP project, is the first installation of a
12 500 kV XLPE cable in North America and the
13 first time this cable was used in duct and
14 manhole systems anywhere in the world; is
15 that correct?

16 A That is correct.

17 Q Could you please explain so that
18 the record is clear what XLPE is?

19 A XLPE stands for Cross-Link
20 Polyethylene. Cross-link polyethylene is
21 specifically the insulation inside the cable
22 system. There's many different types of
23 insulation systems. This one is categorized
24 as XLPE.

25 Q Right.

26 A Also known as a solid dielectric.

27 Q So if you were to look at a
28 cross-section of a cable, it would be that

1 white plastic-looking insulation around the
2 copper in the cable; right?

3 A The XLPE is the white, yes.

4 Q Thank you.

5 A And there's a good picture of it in
6 the Jefferson Martin presentation.

7 Q And there's another further on in
8 your article, too.

9 A Yes, sir.

10 Q And because this is the first
11 installation of an underground transmission
12 cable with this voltage, is it true that it
13 provided unique engineering challenges for
14 Edison as the constructor of the project?

15 A There are many unique challenges;
16 that's correct. One of them was the voltage;
17 one of them was the location; one of them was
18 the size of the cable. There were many
19 unique challenges on this project, yes.

20 Q And you note on this page further
21 in the same paragraph, that there were slopes
22 between 30 and 40 percent in some areas and
23 this was in the area of Chino Hills; is that
24 correct?

25 A That's correct.]

26 Q All right. And if we could turn to
27 the page which has the picture of the
28 cross-section of the table on it -- I believe

1 it's like the fifth page in --

2 A Yeah. Two pages further, yes.

3 ALJ YACKNIN: The bottom it says
4 "protecting the cable."

5 BY MR. DAY: That is correct. Thank you,
6 your Honor.

7 Q The first full paragraph there, you
8 indicate that:

9 The cable system had to be
10 capable of operating in
11 extremely hilly terrain at
12 depths of more than a
13 hundred feet and in duct
14 banks.

15 Why did the cable have to operate
16 at such depths when a normal trench would be
17 far less than a hundred feet?

18 A I'm sorry. Could you refer me
19 specifically to the section? Relative to the
20 photograph, how many paragraphs up?

21 Q Yes. It's the first full paragraph
22 on the page that starts out "The cable system
23 needed to handle."

24 A Oh, I understand. Yes.

25 Q Okay. Go ahead and read that.

26 A Yes -- the cable system needed to
27 handle --

28 (Court reporter admonition.)

1 THE WITNESS: The cable system needed
2 to handle the circuit ampacity of 2,000 amps
3 for normal operation and up to 3500 amps for
4 emergency operation and capable of operating
5 in extremely hilly terrain at depths of more
6 than 100 feet and in duct banks.

7 Should I continue to read?

8 Q Oh, that's fine.

9 And the follow-up question I wanted
10 to ask was why, in this particular
11 configuration of the TRTP cable, was it
12 required to operate at depths of a hundred
13 feet as opposed to the shallower depth of
14 where you would normally trench a duct bank?

15 A Over the 3.7 miles through the City
16 of Chino Hills, there were many geographic
17 obstacles that we needed to overcome, one of
18 which was the Hills. But one of them also
19 were flood control channels --

20 Q Right.

21 A And in one location, I forget --
22 the -- Peyton Avenue -- near Peyton Avenue --
23 it's not going to make sense if you don't
24 know Chino hills. But there was a -- we
25 crossed a opened channel -- flood control
26 channel. There also happened to be a small
27 hill roughly about 90 feet tall just ahead of
28 it. So we had to design the system where we

1 had to start dropping in elevation to get
2 underneath the flood control channel.

3 The hill was ahead of that. So in
4 order to get below a minimum of 40 feet below
5 the flood control channel, and adding the
6 overburden of the hill on top of that, the
7 combination of the two added up to over a
8 hundred -- actually, the maximum depth was
9 about 150 feet.

10 Q Okay. And the flood control
11 channel that you're referring to the large
12 concrete drainage structure that's, you know,
13 heavily reinforced? It's a big, solid
14 structure excavated into the ground.

15 A Some of them are. In this
16 instance, it was a rock line.

17 Q Okay.

18 A But they are large,
19 geometrically-shaped, trapezoidal channels.

20 Q Okay. If you could turn to the
21 following page and look at the third
22 paragraph down that starts with the phrase
23 "the team performed the FEA."

24 A Yes.

25 Q Now, you talked about things you
26 were doing to finalize the design of the
27 cable; is that correct?

28 A That's correct. And the cable and

1 the actual racking system within the vaults.

2 Q Okay. And the next sentence you
3 say:

4 Phase 1 focused on
5 analyzing the cable,
6 thermal expansion and
7 contraction without
8 restraints.

9 Did Edison or the manufacturer
10 of the cable perform tests on the cable to
11 examine its thermal expansion
12 characteristics.

13 A Yes, we did.

14 Q Okay. Yes and did you develop a
15 specific coefficient of expansion for the
16 cable that you decided to purchase?

17 A No. No, we did not define or
18 determine a specific thermal expansion of the
19 cable system --

20 Q Okay.

21 A -- it's -- because the majority of
22 that expansion is going to be due to the
23 copper. Copper has a known thermal
24 expansion, so we can't define copper's
25 thermal expansion. It is what it is. It's a
26 physical property.

27 Q And the physical property of a
28 cable like this is such that the

1 thermomechanical expansion is related to the
2 coefficient of expansion times the length of
3 the cable. Is that generally correct?

4 A That's the good way to simplify,
5 yes.

6 Q All right.

7 If you could go to the next page,
8 and third full paragraph down -- the one that
9 starts with the phrase "restraining the
10 cables"?

11 A Yes.

12 Q There you say that restraining the
13 cables along the route where they traverse
14 steep hills also required special attention.

15 In this particular case of the TRTP
16 project, you actually installed vaults that
17 didn't have splices in them just to hold the
18 cable so it wouldn't move in steep terrain;
19 is that correct?

20 A That is correct. If I could
21 elaborate.

22 Roughly one-third of route --
23 westernmost third of route had the most
24 severe high elevation changes. So in that
25 area, we had to pay particular attention to
26 not allowing the cable to move, essentially,
27 downhill just under its own weight. So we
28 did have specific -- special restraint cables

1 in that area.

2 Q Right. And --

3 A I'm sorry. Restraint vaults.

4 Q Restraint vaults. Yes.

5 Now, in the paragraph right above,
6 the one we were looking at that says "the
7 cables would be trained into the vaults?"

8 Do you see that paragraph?

9 A Yes.

10 Q You talk about the fact that the
11 cables were inserted into the vault with an
12 S-bend curve; is that correct?

13 A That is correct.

14 Q And is that depicted on the
15 following page in the diagram at the top of
16 page?

17 A Yes, it is.

18 Q Okay. And you also had clamps, and
19 cleats, and other supports to hold the cable
20 in place while it was inside the vault; is
21 that right?

22 A That is correct.

23 Q But the idea that the curve would
24 allow expansion of the cable if it were to
25 expand for one reason or another?

26 A The -- that's what it was. That's
27 what the purpose of the S-bend was for the
28 known expansion that we expected the cable to

1 exhibit.

2 Q Okay. Thank you very much.

3 All right. So that we're done
4 with, Attachment 6-3.

5 If I could now turn your attention
6 to the exhibit that we've tentatively marked
7 as Exhibit 10-X, the EPRI Technical Report.

8 And I apologize, your Honor, that
9 the excerpts -- we took off the cover page.
10 And the pages that we're going to talk about
11 don't actually show the date that this report
12 was undertaken. But I will represent that it
13 was March 2004.

14 Mr. Vazquez, are you familiar with
15 this report?

16 A I'm generally familiar with it,
17 yes.

18 Q Okay. This was one of the first
19 reports by EPRI to try to analyze and report
20 upon the thermomechanical properties and
21 other characteristics of high-voltage
22 transmission cables?

23 A That is correct.

24 Q Okay. And did Edison refer to this
25 research work in designing the TRTP project?

26 A I believe we were looking at all
27 references in the industry to try to
28 understand what the thermomechanical

1 properties may -- some of the criteria that
2 may have to be dealt with in our project.
3 Reading this report, it provided insight that
4 it was an area that needed to be very detail
5 -- reviewed very -- with great detail.

6 Q Right. So they actually took
7 cables and clamped them down in place and ran
8 energy through them and did things to test
9 how they would perform under various
10 circumstances. They actually tried to
11 demonstrate the working capabilities of
12 cables; is that correct?

13 A Yeah. It actually makes a very
14 similar reference to what I made in the
15 article that we did not treat the cable as a
16 static item. We treated it as a moving item.
17 Essentially, as it heats up, it does move --

18 Q Right.

19 A It does elongate and does exhibit
20 force onto anything that tries to restrain
21 it.

22 Q Okay. If we could turn now to
23 page 3-33, which is the next -- after the
24 title page in this excerpt. And these are
25 conclusions at the end of this chapter. And
26 if you look toward the end of the last
27 paragraph, it says:

28 These findings show the

1 cables with different
2 designs and different
3 manufacturing processes are
4 likely to exhibit different
5 stiffnesses and different
6 thermomechanical
7 performances and service.

8 And then it says:

9 Thus, it is recommended
10 that cable samples be
11 submitted to mechanical
12 tests if the design is
13 different or if the cable
14 is provided by a different
15 is supplier or
16 manufacturing route.

17 Would you agree with that
18 recommendation that cables made of different
19 materials or cable that have different
20 designs should be tested to conform their
21 thermomechanical performance.

22 A I believe, depending on your design
23 criteria, if you were going to try to make
24 sure you accommodated the actual forces that
25 were going to be created guy the cable, then
26 you should at least have some basis to
27 understand if -- whether you're -- if you're
28 not going to do tests, why you're not going

1 to do tests --

2 Q Right.

3 A -- but if you want to do a
4 comprehensive analysis, then you should do
5 tests, yes.

6 Q Okay. And in terms of procuring
7 the cable for if TRTP project, isn't it true
8 that Edison did contract further manufacturer
9 to produce a test section of cable that was
10 tested?

11 A I'm not sure which tests you're
12 referring to. We performed many test on the
13 cable system.

14 Q But you got a section of cable from
15 the manufacturer for the specific purpose of
16 testing?

17 A There was no one specific piece of
18 cable --

19 Q Okay.

20 A -- but we performed many tests --

21 Q Okay.

22 A -- in collaboration with Tihon
23 (phonetic), the manufacturer --

24 Q Okay.

25 A -- and we performed many tests --

26 Q All right.

27 A -- over many pieces of cable.

28 Q All right.

1 Now, if we could turn to the last
2 page of the exhibit. And under the listing
3 of various symbols, which are defined here,
4 there's a paragraph that starts "The typical
5 coefficient."

6 Do you see that?

7 A Yes.

8 Q And it says:

9 The typical coefficient of
10 expansion for a 138 kV 1500
11 kcmill XLPE cable is --
12 something very complicated.

13 Then it states:

14 This value is recommended
15 for XLPE cables in the
16 system voltage range of 69
17 to 345 kV with stranded
18 copper conductors up to
19 3000 kcmill.

20 So they are saying that this is the
21 coefficient for cables within this range.
22 But the cable that you're proposing for the
23 RTRP project, while it's in the voltage range
24 of 69 to 345, it has more stranded copper
25 conductors, it's a 5,000 kcmill cable; is
26 that right?

27 A That is correct.

28 Q Okay. So that's outside the

1 recommended range?

2 A Correct.

3 Q And the TRTP cable was, of course,
4 a 500 kv cable, also a 5,000 kcmill if I'm
5 not mistaken; is that right?

6 A It was 500 kv and 5,000 --

7 Q Okay. So it had a different
8 coefficient of expansion than what we see
9 here.

10 MR. DAY: That's all I have to ask
11 about on that exhibit, your Honor.

12 ALJ YACKNIN: We can take a break for
13 the day.

14 MR. DAY: I just got started. That's
15 fine, your Honor. I appreciate it.

16 ALJ YACKNIN: Okay. We will be in
17 recess until tomorrow morning.

18 MR. DAY: Thank you, your Honor.

19 (Crosstalk.)

20 (Whereupon, at the hour of 3:31
21 p.m., this matter having been continued
22 to 9:00 a.m, September 5, 2019, at
San Francisco, California, the
Commission then adjourned.)

23 * * * * *

24

25 Upon order of Administrative Law
26 Judge Yacknin, the following documents are to
27 be attached as exhibits to this transcript:

28 A1504013 PUBLIC RTRP - SCE Response

1 to GWPP MTS FINAL Redacted wout Attchs;
2 A1504013 Exhibit List;
3 RTRP -MTS Resp, Forrest Decl, DRAFT
4 090319.

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CSR NO. 8916

Exhibits	108:20 109:8,21 112:26 113:21 116:5 117:16 136:5 165:4	150 164:9	105:21 109:3,9 115:22 116:19 127:6,9 133:24 134:14 149:26 152:3
RTRP -MTS Resp, Forrest Decl, DRAFT 090319 174:3,4	1-in-10 31:28 32:4,9 81:20 103:4 109:27 110:3 117:10	16 24:5,15 140:3 154:1	165 58:21
A1504013 PUBLIC RT RP - SCE Response to G WPP MTS FINAL Red acted wout Attchs 173:28 174:1	1-in-2 105:10 109:24 112:17 117:9	17 31:21 58:3 87:24	17 31:21 58:3 87:24
A1504013 Exhibit Lis t 174:2	1-in-20 32:1,4,10 117:10,22	18 79:16	18 79:16
(1-in-5 109:28	19 57:25 58:3 143:5,6	19 57:25 58:3 143:5,6
(a) 54:25 57:8	1-X-C 37:25	1997 141:26	1997 141:26
(e) 54:25 57:8	1.03 63:6	1:30 97:21,22	1:30 97:21,22
-	1.2.3 64:9	1:34 98:1	1:34 98:1
-01-C 99:21	1.5 30:20	1st 9:22	1st 9:22
0	1.5-D 105:24	2	2
0.98 47:15	10 36:12 45:19 71:20 102:8 105:23 132:3 142:14,16,23	2 45:3 48:6 64:12 66:4, 24,27 67:1 74:5 89:26 93:2 105:25 106:6 111:24 113:18	2 45:3 48:6 64:12 66:4, 24,27 67:1 74:5 89:26 93:2 105:25 106:6 111:24 113:18
01 62:27	10-X 155:28 160:1 168:7	2,000 163:2	2,000 163:2
03-X 62:22 64:4 67:17 92:1,3,10	100 136:11,12,27 163:6	2-10 38:16	2-10 38:16
04-X 63:1 65:7 67:17 92:3,10	100-percent 136:14	2-9 38:26	2-9 38:26
05-X 63:8 67:21,22 92:3,10	102 108:24	2-X 41:19,20,24 47:5	2-X 41:19,20,24 47:5
06-X 92:3,10	10s 88:13,18	2.10 14:3	2.10 14:3
07-X 67:15 138:17	11 55:11	2.17 14:4	2.17 14:4
08-X 138:27	11-X 156:11 160:1	20 30:3 32:17 106:12	20 30:3 32:17 106:12
09-X 138:27	115 39:4 64:24 65:1	2003 141:24 142:3	2003 141:24 142:3
1	11:55 97:22	2004 72:19 168:13	2004 72:19 168:13
1 11:18 19:14 22:27 57:3 66:4 89:25 91:3 92:28 98:24 105:23,25 106:3,10 107:4,22	12 36:12 141:19	2006 39:16,23	2006 39:16,23
	12.3 134:22	2007 64:23 74:19 131:15	2007 64:23 74:19 131:15
	128 58:21	2010 68:27	2010 68:27
	13 32:18 33:20 39:18 63:16 71:20 120:13 121:14 143:5,6	2013 149:27	2013 149:27
	13.6(a) 56:21	2014 43:9	2014 43:9
	14 29:19,22,27 58:6 64:15 79:14 121:14	2015 36:26 37:27 62:21 105:11 106:12,16 107:5 111:27 113:16,17 116:25	2015 36:26 37:27 62:21 105:11 106:12,16 107:5 111:27 113:16,17 116:25
	15 24:12 64:15 87:24 158:12	2016 107:19,23,27 112:9	2016 107:19,23,27 112:9
	15-minute 45:21 138:2	2017 108:15,21 111:17, 22,23 117:21 159:17	2017 108:15,21 111:17, 22,23 117:21 159:17
		2018 53:7 81:25 103:22	2018 53:7 81:25 103:22
			2019 22:28 24:5 53:18 103:24 140:3 151:9 152:4 154:2
			2023 135:26
			2030 33:2,28
			2033 136:20
			2045 136:15
			21 40:22 41:3
			214 29:21,26
			21st 136:20
			22 32:25 57:25 156:10
			220/66 38:14 57:26
			23 23:5,9 34:10 40:22 41:3
			230 157:9,25 158:9
			2321 38:25
			2322 38:15
			24 36:26
			24th 37:27
			25 34:10
			264 31:22 33:22
			265.4 30:16,25
			28 67:5,7,8
			3
			3 23:5,9 31:21 45:6 48:6 59:13 70:22 71:4,9,19 98:24 100:18
			3-1 99:2 121:13
			3-10 100:18,27
			3-11 132:14
			3-12 134:15
			3-3 99:17
			3-33 169:23
			3-5 127:16
			3-6 102:5 124:21

3-7 103:15	71:19 79:16 88:7	66 28:25 31:5 32:3,5	97 42:11 51:13
3-8-0 101:6	157:23 158:15,17	33:12 39:4,11 58:17	98 44:25,28
3-9 105:27 106:11	5-0-4 107:21	59:5,20	
112:19 116:5 117:19	5-0-7 107:2	67.6 24:17	<hr/> A <hr/>
129:25	5-3-8 108:18	675.5 33:28	
3.21 13:28	5-5-2 109:6	<hr/> 7 <hr/>	A- 34:12
3.7 163:15	5-8-5.1 107:7		A-3 116:16
30 39:14 84:25 85:2	5-9-8.6 108:1	7 24:16 64:3 67:5,8	A-BANKS 38:14
161:22	50 23:6,10 84:26 85:2	91:18 106:7 121:24	A-BUS 29:6 35:8
30-odd 62:19	500 155:7 159:17,21	141:19	A.15-04-013 62:26
31 68:13	160:12	7-X 104:9,10 112:17	63:6
32 32:19,27 33:26	507 113:20	7.2 13:28	a.m. 97:22
48:17,24,28 57:25	53 87:23,28 99:3	700 122:19	AAEE 81:21 103:22
33 58:3	535 143:10,23 144:6,12,	732 68:4	ability 36:3 60:8
330,000 69:9	23 145:20 146:15	75 143:22	absolutely 36:10 118:1
350 101:3 115:13	55 32:27	78 107:8 113:21	accept 82:2 124:18
121:18 123:25 125:14,	557 53:5 67:26	78-megawatt 113:23	acceptable 90:21
28	56 84:11	79 124:21	access 93:1 128:24
3500 163:3	56.6 24:17	7th 10:1,2 11:20	accessed 105:6
36 63:13 64:14 71:14,	560 53:6,11 65:25	<hr/> 8 <hr/>	accomplish 20:1,3
17,20	66:16,17		accomplishing 20:8
36.5 14:15	57.9 33:1	8 18:22 21:14 66:24	account 40:23 43:22
38 55:11	585 113:21	67:6,8 87:28 109:1	71:26 72:2
380 101:4,5	59 109:14	8-X 115:16,17 121:24	accounts 75:1
39 70:27,28 71:24	5th 103:24	80 103:20 105:16,18	accreditation 142:8
<hr/> 4 <hr/>	<hr/> 6 <hr/>	88.4 30:10	accurate 55:21 66:28
4 19:6 24:12 31:21	6 24:16 66:24 91:18	<hr/> 9 <hr/>	69:13 78:4 86:25 87:6
40:21 41:1,3 43:21	108:12 111:14 122:13		96:28 102:18 140:13
59:13 66:6,24 88:7	6-1-0.9 109:11	9 30:3 63:16 109:13	accurately 65:13 80:24
98:24 107:13 112:5	6-3 168:4	132:3	achievable 81:26
137:2	6-4-0.3 108:22	9-X 115:25,26 133:23	achieves 61:15
4,000 158:12	6-X 79:9,10 80:3 84:28	134:7	acronym 158:4
40 161:22 164:4	60 33:9	90 75:5 163:27	action 150:24 151:5,9,
42 23:7,10	61 99:17	92 100:28	15,18,21 152:2,4
423 55:12	611 53:8	94 108:2	actions 133:12
425 55:13	640.3 117:21	95 51:13 58:26 141:16	activated 48:25
43 88:7	65 114:7	96 143:4	active 148:11
<hr/> 5 <hr/>		9621 122:8,13 123:17	actual 31:13 43:14
5 18:26 21:13 60:17,20		9622 122:4 123:10	44:8,14 50:16,18 65:14
			111:1,17,22 116:7,8
			128:12 129:27 151:24

165:1	Advocates-a.15-04-013-sce-009. 41:17	8,16 98:4,14 99:11	apologize 41:4 80:9 142:21 145:11 149:2 159:25 168:8
add 24:13 30:16	advocating 95:16	100:11,13 101:5,22 104:2,6,18,23 106:20, 26 110:22 112:15,26 113:1,5 114:1,4,11,14, 17 115:6,10,19 119:2 120:25 124:12 134:8 135:21,28 136:4,8 137:26 138:4,9,11,17, 20,26 139:1,4,12 140:26 141:3 145:7,13 147:7,11 148:17 150:27 151:6 152:23,26 153:2, 10 154:24 155:27 156:9 157:1,3 159:28 160:4 162:3	appears 7:22 13:4 26:3,4 100:4
added 164:7	affect 117:25		appendix 27:17,19 28:4 84:9,11
adding 164:5	affecting 49:22		apples-to-apples 11:1
addition 23:25 47:19 93:15,24 137:16	affirmative 74:18		apples-to-oranges 42:18
additional 7:19 8:21 14:19 26:6 47:18 48:20 51:1 52:7 59:14,19 61:8 70:11 83:11 84:2 129:11	affordability 145:28		applicable 38:10 48:9 122:26
Additionally 105:22	afternoon 98:1 101:26 114:24,25 139:19 153:16,17 154:28 155:4		application 22:23 24:1 36:13 126:18 139:25 153:25
address 33:27 34:7 50:4,9,10 91:17 132:17 133:1,3,11,18 149:16, 20,23 150:5 151:27	agencies 74:9	alleviate 34:20 59:17	applied 99:20
addressed 147:13	agency 125:15	allocation 137:10	applies 103:13 124:11
addresses 147:8 149:27	aggregated 128:21	allowed 63:17	apply 44:14 72:6 122:15
addressing 132:25	aggregators 125:6	allowing 166:26	appraisal 21:7,8
adequately 33:27	agree 37:5 80:8 130:17, 26	aloud 107:1	approach 9:9
adjustment 43:17 79:27 82:13 83:1 113:12,24	agreement 17:20	alter 84:28	approaching 9:8
adjusts 128:16	agreements 17:12 136:25	alternative 11:18,19 18:21,28 19:9,14 20:3 26:23 90:14,18,23 91:3, 5 92:25 96:10	approval 39:16,20 93:11
admonish 145:12	ahead 12:18 28:5 77:5 162:25 163:27 164:3	alternatives 9:9,12,24 20:23,27 49:15	approved 39:22 59:16 126:13 127:9,12 137:12
admonishing 145:14	align 66:12	amended 123:25	approximately 75:4
admonition 108:8 114:10 162:28	alignment 146:14	amendments 124:16	area 17:6 20:20 49:23 65:4 68:14,26 69:2,17, 18,20 70:10,14 73:24 74:10 83:25 106:24 117:26 118:10 120:1 124:1 126:25 127:6,27, 28 128:3,4,6,7,9,10,12, 13,24 130:18 145:1 161:23 166:25 167:1 169:4
adopt 23:18 24:23 55:26 78:9 87:2 140:16 154:14	Aliso 132:19 133:8	America 155:24 160:12	area's 117:24 118:9,11, 13 120:8
adopted 101:17 103:24 122:7	ALJ 7:3,7,25,27 8:2,15 9:13 10:2,8,15,22 11:4, 6,21,28 12:5,13,16 13:16 14:26 15:23,28 16:2,6,21 17:1,24 18:9, 13 19:22 20:10 21:5,15, 26 22:8 23:8 25:7,18 27:9,21,25 28:2,5 29:26 36:19,22 37:7,14,19 40:5 41:10,13 45:11,14, 17,20,24 50:28 52:6 53:21,24 54:3,5,10,15 56:12 57:19 62:13,16, 25 63:4,11 66:7 67:20 71:1,3,9,17,21 72:26 73:1 76:13,25 77:1,5 78:23 79:3,8 81:9,17 82:1,19 83:4,16 84:4,16 85:5,8,10,15,17,22,27 87:16,19 89:10,14,22 90:3,9,19 91:9,19,24 92:2,9,15 93:27 94:18, 26 95:13,24 96:21 97:1,	amount 32:8 66:1	areas 127:2 128:21 144:19 161:22
advance 13:14		ampacity 163:2	argue 132:14
adverse 96:10,23		amps 163:2,3	argument 13:22 19:12 95:17
advocacy 95:17		analysis 9:28 35:19,26 40:17 128:23 146:28	arguments 13:26
Advocates 17:5 18:1 27:11,16,20,26 37:21 62:27 81:22 82:4,19 87:18 98:10 138:5		analyze 168:19	
Advocates' 34:11		analyzing 165:5	
		anchor 118:22	
		Annas 57:17	
		annual 39:23 40:16 100:24 103:27 122:18	
		anomaly 79:26	
		answers 113:9 145:8	

Armstrong 9:4,18 11:15,16,23 12:5,10,15	awhile 155:1	benefits 92:24,27,28 93:5,9,14,16,20,22	bullseye 29:14
article 159:12 161:8 169:15	axis 66:13	Bernardino 28:18 30:6,19,26 31:6,12,23 33:9,23,25 48:21 49:9, 20 61:1,22 68:24,26 69:1,16,28	bundles 159:3
articulated 19:11	<hr/> B <hr/>	big 164:13	burden 137:18 146:2
asks 82:20	B-U-S-T-E-E-D 139:15	Bill 101:3 115:13 121:17 123:24 125:27 136:11,27 143:10	bus 35:14 49:10 53:10, 11 59:26 60:20 61:2,5,6
assertion 101:27	Bachelor's 141:27	Biology 141:24,28	buses 60:9
assertions 21:10	back 8:2,15 11:6 16:2 18:13 22:8 27:9 33:20 36:22 37:19 39:19,24 41:13 45:24 54:5 59:6 62:16 70:18 75:8 85:17 89:22 105:10,11 114:4, 14 150:16 153:2 157:3	bit 10:27 96:4	Busteed 139:9,10,14, 19 140:24 141:11 148:15,21
asserts 96:8,22	background 26:13	black 29:10,12	Busteed's 147:8
assessment 102:18	backing 11:11	blackout 74:19 131:15	bypass 38:28 39:10
assignment 137:3	balancing 104:6	blue 66:19,20 81:19	bypassing 39:7
assume 39:10 89:24 92:26 96:15 112:11 118:7	BANC 106:23	board 39:14	<hr/> C <hr/>
assumed 11:24	bank 39:5 163:14	Bob 57:5,8	C-A-B-B-E-L-L 25:16
assuming 82:6 96:22	banks 38:14 46:19 51:26 53:15 162:14 163:6	bottom 43:21 47:9 66:24 104:15,22 111:2, 15,25 113:11 162:3	C-BUS 28:15 29:6,9,15 34:12 35:8
assumption 9:26 73:17 158:27	base 46:12 50:5,9,15 51:8 73:17 130:12,15	bracketing 158:28	C-O-S-G-R-O-V-E 7:6
attach 159:3	based 11:13 14:21 43:2 94:13 111:1,16,23,26 112:3,8,19,23 113:14 116:7 143:20,22	break 45:21 138:2	C.1 54:25
attached 55:17 77:28 86:21 101:11	bases 19:16	breakdown 9:23	Cabbell 15:5 22:12,14, 17 25:15 28:7 40:10 41:23 42:9 45:10 46:4 52:13 53:25 60:6
attachment 9:21,22,25 71:8 111:25 156:21 157:6,13 158:16 159:8, 24 160:8 168:4	Bash 8:6	breakers 29:6,13,17	Cabbell's 25:5
attachments 156:18	basically 9:7,21 39:19 105:19 127:28	briefing 21:1,22	cable 157:22,23 158:11,22 160:12,13, 21,28 161:2,12,18 162:4,9,15,22,26 163:1, 11 164:27,28 165:5,10, 16,19,28 166:3,18,26 167:19,24,28 169:15
attention 166:14,25 168:5	basis 19:15,17,19,20 40:16 44:4 68:15 93:9 96:26 102:1,13 130:9	briefly 21:4	Cables 155:22 158:24 166:10,13,28 167:7,11 168:22 169:7,12
August 24:5 140:3 152:6 154:1	begin 114:20	briefs 7:11 20:11	CAISO 39:14 42:11 45:5 68:20 94:9 110:2 126:24
authority 104:6	beginning 84:25 135:26	bring 34:25,26 35:21 131:18	CAISO's 126:21,26
automating 93:3	behalf 7:1 8:6 15:13,15, 25 87:17 155:5	broader 49:25 128:3,7, 17,23	Cal 27:25 41:16 70:12, 22 71:6 92:16
Avenue 163:22	behind-the-meter 130:1	broadly 121:20 125:2 136:12	calculated 11:3 44:5, 13
avoid 17:26 75:27 104:13,16 131:5	belongs 69:20	brought 93:18 130:14 131:21	calculating 43:10
aware 65:16 103:5 117:20 120:11 121:3 123:1 124:15 128:28 130:4,7 131:8,23 134:28 137:7 140:8 142:4 144:6 147:25 148:1 151:8,20 152:18 158:5,6	belt 104:13	build 19:25 51:9,11,15	
		built 158:11	
		bulk 26:6,7,25 70:17 94:3,7 128:25 129:11	
		Bulletin 48:17	

calculation 14:14,21 32:1,26 42:14,28 43:3	categories 146:11 147:26	channels 163:19 164:19	claiming 15:24
calculations 44:21 119:17	categorized 160:23	chapter 137:2 169:25	clamped 169:7
California 17:20 20:5 22:12,22 23:27 28:8,27 36:8,24 38:8 40:13,15, 18 41:27 42:16,23 46:13 47:28 49:4,19 69:21 72:4,9,17 73:22 99:4 102:21 103:1,23 119:16 123:7 127:17 129:19 130:27 131:3 132:24 133:7 134:20,26 136:2 139:8,24 143:14, 21 144:7,10 145:26 146:5,11 153:5,22,24 155:6 156:5 158:10	Catherine 87:17	Chapters 98:24	clamps 167:18
call 10:10 13:28 18:15 22:4,9 35:18 52:16,18 74:23 85:12 98:5,8 139:5 153:5	caused 58:9 64:25 132:18	characteristics 165:12 168:21	clarification 25:14 52:9 106:25
called 22:14 54:6 74:21 75:15 76:21 85:18 98:10 139:10 153:7 159:12	CEC 43:7,9,15,18 44:3, 9,18 79:18 82:27 83:10, 13 103:24,28 105:22 109:20,27 111:21 126:19 127:14	Charge 128:24	clarify 31:28 126:17
calls 22:12 124:1 139:8	CEC's 40:27 43:25 79:4 81:1 83:14 101:28 102:11 121:15 124:26, 28	chart 107:16	clean 136:14
Canyon 132:20 133:8	CED 103:22	check 82:2 100:13 103:3 124:19 125:12	clear 17:10,12 21:6 42:6 58:24 61:23 62:2 66:15 91:10,12 160:18
cap 18:19,21 149:11	cell 107:1,20 108:16 109:5,9	chief 57:12,15 155:13	cleared 64:25
capabilities 169:11	census 68:27 143:20	Chino 161:23 163:16, 24	cleats 167:19
capability 32:13	center 35:15 60:21 74:5	choice 125:5	close 16:12 42:15 44:12 45:4 114:16
capable 162:10 163:4	centers 73:26	Chris 79:17	closes 83:1
capacity 30:19 31:22 32:2,9,10 33:1,21,22 50:22 51:9,15,16 65:23 135:18	CEQA 19:16	circles 29:16	closing 61:2
capital 57:15,16	Certificate 22:24 24:1 139:26 153:26	circuit 29:13,17 30:19 31:23 33:23,25 58:10 163:2	clustered 60:24
carbon-free 136:14	cetera 19:19 58:7 73:26	circuits 32:15,16 33:9	co-author 159:13
care 138:4	ceteris 118:4	circulated 7:20	coefficient 165:15 166:2
carry 61:9 93:22	chain 83:3	circumstances 169:10	cognizant 15:22 16:18
cascading 49:28 52:14	challenge 19:17,18,20 36:5 90:13,16	cities 70:1	coincidence 42:1,2, 10,28 43:2,6,17,26 44:5,13,16,17,21,28 46:6,7,9,23 47:11 48:9 51:3 52:3 79:27 82:13 83:1
case 16:8 50:5,9,15 51:8 60:22 68:18 75:25 82:7 112:18 166:15	challenges 161:13,15, 19	city 8:6,7 17:18 21:17, 19 28:27 42:24 44:15 46:25 47:22 48:1 49:3, 4,19,27 50:5,12,14,23 51:17,25,26,28 53:7 54:6,24 58:15 60:15 61:7 62:20 64:28 65:1,5 69:9,19,28 70:13,15,22 72:21 73:27 74:1,8 76:21 77:17,21 80:26 85:18 89:28 90:16,26 93:2 114:18,27 115:10 116:9 130:21,23 131:16 135:1,3,8,13 136:24 140:27 142:28 146:15, 24 149:24 150:6 152:12 163:15	coincident 40:26 43:24 44:2 51:6,12,21, 22 81:1 82:16 83:22,24 127:22,24,26 128:5,15, 22
cases 137:11	challenging 19:13	city's 147:2,27 148:8, 22 149:9,17	Colina 30:14 60:23 61:4,11 75:3
catch 148:27	chance 12:19 95:10	claim 15:12,16 16:4	collaborate 69:27
	change 9:5,6 11:26 12:1 19:8,15 51:23 57:1 82:28 83:9 84:23,24 85:2	claimed 15:10,11 68:16	colleague 25:20
	changed 10:5 23:6 24:17 57:12 123:25 124:4,19		College 116:24
	changing 57:3 118:9		Colton 28:27 48:2 49:5, 19 65:1
	channel 163:25,26 164:2,5,11		Colton's 47:22
			column 68:2 106:11, 16,18 107:19,24 108:15 113:18

combination 48:19 76:1 164:7	companies 103:12	concludes 114:6	consisted 75:7
combining 30:12 48:16	company 7:16 132:24 133:2 155:12 156:6	conclusion 57:11 147:4	consistent 20:4,7 56:21
comment 60:11 152:5	Company's 22:22 23:28 139:24 153:24	conclusions 169:25	constant 118:8 130:16
commented 93:17	compared 63:25 113:20	concrete 164:12	constitute 93:10
comments 94:22 148:5	comparison 9:11 11:1 42:18 79:4	condition 61:28	constraints 73:20 135:17
commercial 119:10, 12,24	compilation 156:4	conditions 30:4 37:10 38:22 49:6 50:20,21 64:11 67:12	constructed 59:9 60:2 73:19 157:26
Commission 42:23 102:10 103:6,9 119:16 122:10 123:8,12,18 125:14,20,24 126:12 127:9 137:5,8,13	compiled 103:6 143:20	conduct 14:19	constructing 59:20
Commission's 99:4 102:17 124:7,10 128:22	complete 35:5 69:15 76:4	confer 37:15	construction 20:1 59:11
committed 90:27	completed 40:24 43:23	confidential 8:20 12:28 13:12 15:9,11,12, 16,18,24 16:17,23 17:6, 16 18:3,6 22:26 24:4 27:19 28:11 36:27,28 37:2,8 72:13 139:28 153:28	constructor 161:14
communication 73:26 75:17 131:9,10,19,24	completely 27:3 58:4 64:20	confidentiality 15:7 16:4	consultants 152:18
communities 49:24 145:22 151:17	completion 159:17	configuration 60:4 73:18 90:20 163:11	contained 84:1 94:22 127:2
community 74:5 125:5 143:9,10,27,28 144:4, 22 145:19 146:16 147:27 148:2,4,6,8,23 149:9,10,18,21 152:19	compliance 8:8	conflicts 147:17,20,22 149:17	contents 56:19,20,22 57:2 106:28 107:20 108:16,20 109:4,8
Como 17:28 27:10,12, 14,23 28:1,4,6 29:27 30:2 36:17,23 37:4,9 38:3 40:7,9 41:8,22 42:8 45:9 52:7,9,12 53:19 56:13 57:20,22 62:11 63:12 66:14 67:21,23 68:8,11 71:2, 23 72:14,24 73:5 74:16 76:11,20 77:1,3 78:24, 25,27 79:7,12 80:9,11 81:17,18 82:9,17,25 83:6,27 85:8,9 91:24,26 94:21 95:7 98:5,7,19 99:18 100:12,15 101:7, 20 110:23,25 111:6,13 112:13 113:10 118:14, 18 123:28 131:14 137:24 138:5,8	complicate 49:8	conformance 63:27	context 26:2 46:10 125:25 126:18
Como's 96:3	complicated 49:14	confusing 61:20	contingencies 71:27
compact 61:14	complied 151:28	confusion 9:11 67:18 104:13,16	contingency 34:5 37:10 38:21,22 52:15, 26 57:27
	complies 147:1,17 149:16	Congratulations 116:20	continue 50:13 71:22 132:6 163:7
	comply 136:26	conjunction 33:25 60:3	continues 61:6
	component 64:18	connect 75:16	continuing 104:24
	components 148:9,22	connected 49:18,21	contract 135:26
	comprehensive 102:25 117:1	connection 28:22,24, 25 29:7 59:15 128:25 129:11	contraction 165:7
	computer 99:6	consideration 91:7 102:1,14 143:26 151:19	contradict 10:3,7 83:4, 6
	concede 14:13	considerations 91:1 93:6,10	contribute 75:11,13
	concentration 144:20 145:2	considered 34:19 35:16 39:19 69:15 94:23,26	control 74:7 94:10 106:24 163:19,25 164:2,5,10
	concepts 117:10,14		Convenience 22:24 24:2 139:26 153:26
	concern 42:27 49:17, 25 52:20 70:2,10 91:6 95:5,14 121:14		conversation 73:10 79:17 82:26 83:2
	concerned 52:26 95:8		cooperate 18:8 74:10
	concerns 18:16 37:17 48:21 133:9		
	concession 14:18		

coordinating 128:5	correctly 48:16 60:16 75:10 82:5 100:10 141:23	78:22,26 84:27 87:15, 20 91:25,28 92:4,16 95:25 101:21,24 114:8, 19,22 115:2 136:18 138:13 140:25,27 141:9 154:23,26 155:26	Danny 85:13
copied 13:24	correlated 138:12	Cosgrove 7:5	data 12:23 13:27 14:3, 9,11 28:8 34:22 41:15, 26 43:4,27 44:22 47:7 62:26 63:5 65:19 68:6 109:19 111:1,17,22,23 132:5 156:6
copies 7:23 8:19 134:2	cost 9:8,23,28 11:20,25 18:18,19,21,24 20:23, 27 21:10 91:1,6 137:9, 16,17,18	cross-examine 95:10	date 88:28 89:4 136:19, 20 168:11
copper 161:2 165:23	costs 137:3	cross-examined 131:13	dated 36:26 37:27
copper's 165:24	counsel 16:14 27:15 94:22 110:27 131:14	cross-examining 141:2 148:18	David 7:5
copy 13:14 27:15,24 121:27 126:6 133:27 134:11 156:24	count 44:15	Cross-link 160:19,20	day 14:24 15:14 21:3,5, 6 74:20,22,25 88:2 154:25,27 155:15 156:1,3,12,15 157:5 158:20 159:23 160:2,5 162:5
corner 104:16	counting 115:12	cross-section 158:21 160:28 161:28	days 131:6
correct 10:24,28 12:4 23:15 24:20 30:7,8,10, 11,16,17,20,21 31:26, 27 32:24 33:3,6 34:18 35:11 38:24 40:27 44:25 45:7,8 48:13 54:26 55:5,14,19 56:3 58:12 63:20 64:7,13,21 66:17,19,25 67:9,13 68:1,20,21 69:6 78:14 79:19 81:27 84:10 87:27 88:4,5,11,12,14, 19,20 92:3 96:19,20 102:2 104:5 105:12 107:28 111:1,10 113:13 115:4,5 116:8,9 117:5, 6,11,12 120:13,20 122:27,28 123:8,9,19 124:23 125:18,19,24 126:25 128:13,14,18,19 129:8 130:2 131:25 132:21,22 135:10 136:15,20,22 141:24,25 142:1,10,18,25 143:1, 10,28 144:5 146:7,20, 25 147:2,9,10,18 149:9 150:2,7,12,19,20 152:2 154:6 155:8,9 157:11 158:1,23 159:18,19 160:15,16 161:16,24,25 162:5 164:27,28 166:3, 19,20 167:12,13,22 168:23 169:12	Country 7:1,16 9:19,28 12:27 13:6 15:15 18:18 21:7 155:26	crossed 163:25	deal 15:7,8,18 18:17
corrected 55:13 79:27 99:17 103:21	county 69:27 143:1 158:3,7	crossing 64:27 65:27 66:9 158:25	dealt 169:2
correction 23:4,19 56:2 84:22 99:19	couple 18:14 76:7 92:23 155:17 157:15	Crosstalk 81:8 105:13 114:9 117:18 136:3	debating 18:18,19
corrections 23:2 24:8, 12,24 25:6 54:27 55:1,8 56:16 77:24 80:8,16 86:17 98:26 100:16,26 101:8 140:6 154:7	court 106:25 108:8 114:10 162:28	Cumulative 100:24	decade 142:14
	cover 41:18 56:16 104:24 105:4 115:12,20 156:10 168:9	curious 21:27	decided 62:5 165:16
	CPUC 101:28	current 20:19 59:3 101:12	decline 117:25 118:9, 11 119:13,19
	CPUC's 124:22,25 125:3,10 150:23 151:4, 13,14,20 152:1,18	curve 65:10,12 167:12, 23	declining 118:12
	create 112:4	customer 39:7,8 47:24,26	decrease 119:6,7
	criteria 21:11 36:25 37:1,26 38:9 58:16 62:21 64:1,7 68:20,23 70:9,12,15,22 71:7,19, 26 73:21,23 169:1	customers 20:5 25:27 48:11 49:26 50:1 75:1 117:5	dedicated 53:2,15
	Criterion 70:21 71:4,9	cut 100:19	deemed 61:25
	critical 46:23 63:23,25 73:25,28 75:1,20,25,27	cycle 59:3	deems 143:23
	cross 45:12 51:1 52:8 116:4		deficiencies 123:20
	cross-examination 8:27 9:3 12:7 15:21 16:25 25:11 27:10,13 36:18 46:5 47:6 48:14 56:11,14 57:21 60:6	D	deficient 125:23
		D-A-N-A 25:15	deficit 33:2,27
		D-A-N-I-E-L 85:26	define 165:17,24
		D-O-C-U 100:1	defined 61:18 147:26 149:11
		damage 32:16	definition 68:19 69:3 144:12
		Dana 15:5 22:12,14 25:15	degree 116:18,23 141:24,27 142:5
		danger 96:15,18	degrees 142:2
		Daniel 85:13,18,25	delay 64:25

delivered 135:8,14	determination 144:4	disadvantaged 143:9, 24,28 144:4,8,10,22 145:19,22 146:16	Dodged 160:5
delve 116:3	determine 40:18 71:28 143:8 144:8 165:18	disagree 148:12 151:17	dots 29:16 66:12
delving 16:14 17:5	determined 62:9	discontinued 87:25 88:19	dotted 29:5 35:7
demand 40:25,26 43:23,24 44:14 79:5,28 80:7,15,25 99:4 103:23 122:18	determines 103:9 123:13 143:21	discovery 9:14 12:25	doubt 126:9 127:8,11
demanded 56:20	determining 118:27 144:22 145:19,21	discrete 17:8	downhill 166:27
demarcation 62:2	deterministic 72:1	discuss 37:1 89:18 137:2 148:2	downloaded 103:28
demonstrate 169:11	develop 50:11 165:14	discussed 16:24 60:23 61:24 74:2 133:15	drainage 164:12
demonstrated 14:4	developed 110:28 111:16,26 112:8	discusses 25:26	draw 65:25
denied 8:10 13:27 97:19	developing 72:20 111:22 118:27	discussing 37:21	drawing 35:7,9
density 68:14,26 70:13 73:24	diagram 28:23,28 60:15,19,21 167:15	discussion 10:23,27 17:3 46:4 48:8 60:1 73:23 137:17 151:4	drive 120:8
depend 117:27	diameter 159:2,4	discussions 150:22	driven 129:14
dependent 32:4	Diego 157:26	dispatch 93:3	dropping 164:1
Depending 17:1	dielectric 155:22 160:26	disposal 156:23	drown 164:22
depict 158:26	difference 107:9,11 108:24,25 109:15,16 127:18,22 130:11	dispute 146:13	Duckett 96:1
depicted 167:14	differences 40:24 43:22 113:22	distinct 61:14	duct 160:13 162:13 163:6,14
depth 163:13 164:8	differential 20:23	distinguish 20:15,16	due 13:1 81:11 165:22
depths 162:12,16 163:5,12	difficult 31:10	distribute 36:20 41:11	dumps 143:17
Deputy 57:15	dig 112:21	distributed 36:23 56:18,28 104:3 115:11 155:17 156:4	duration 65:10,12 75:21
derived 14:17	digging 14:15,25	distribution 25:28 73:14 103:12	duty 34:16,26,27 35:19, 21
describe 32:19 39:1 131:10	direct 8:18 10:4 12:17 14:12,19 21:27 22:1,15, 21,22 23:8,19 27:16 39:13 54:17,24 60:14 63:14 64:14 67:4 74:3 77:8,17 78:7 84:3 86:2, 8,28 87:23 132:23 133:4,6,16 139:17 141:15 143:3 153:14,24 154:4	district 74:11,12,13	<hr/> E <hr/>
describing 36:13 79:16 133:12	directed 19:2 21:18,21 25:20	diverse 50:11	e-f-i-l-i-n-g 99:13
description 116:28	directly 8:23 19:4 21:9 69:9 118:1 132:16,25 133:3,10,18	divert 60:11	e-mail 100:8
design 34:28 35:5 72:6 155:10 159:21 163:28 164:26		doctor 118:11	earlier 47:6 48:14 60:6
designated 88:1 102:20 146:15		document 9:17 11:12, 14 27:19 28:11 36:23 38:6 40:15 41:14,15 42:6,9 62:19,25 63:4 69:3 84:15 99:25 100:2, 5 104:8,25 115:13,20	easier 71:15
designates 126:28		documentation 103:2	eastern 60:25
designed 50:6		documents 72:20 105:20 106:8 107:10	easy 17:8
designing 168:25			economic 20:17,18,26 40:17
detail 26:28 74:2 169:4, 5			Edison 8:16 9:27 12:1, 17 14:4,13,22 15:11,25 16:12 17:12,20 18:17 19:8 22:9,12,22 23:28 25:26 26:24 28:9,27 29:27 37:11,16,21,26 38:9 39:8 41:27 42:3 44:24 45:2 46:13 48:1 49:4,19 51:22 69:21
detailed 9:23			

72:5,9,17 93:7,18 94:1 110:27 128:23 129:20 130:18 139:8,24 153:5, 24 155:6 156:5 161:14 165:9 168:24	119:16 122:10 123:8, 12,17 124:7,9 125:6,14, 20,24 126:12 127:9 128:22 136:13,15 137:5,8,12 169:8	equivalent 32:9	138:1 152:27
Edison's 9:22,28 10:3 11:25 12:28 13:21,22 14:11 15:4,18 16:7 21:9 22:4 36:13,24 47:22 94:6 96:12 138:17 153:22 159:24 160:3	energy.ca.gov/ getdocument.aspx? tn=223244&doc 99:14	error 43:8	exercise 58:23
edits 57:2	enforcements 59:17	essentially 39:8 166:26 169:17	exhibit 8:5,11 12:7 25:9 36:18 37:23,25 38:1,4 41:8,19,20,24 47:5 55:3,17 57:3,12,24 62:22,23 63:1,2,7,9,14 64:4,15 65:7 67:5,15 68:13 77:4 78:28 79:9, 10,13 80:3,13 84:28 90:5,7 91:21 92:12,13, 18 95:18,20,22 97:4,6, 13,14,17 99:2 103:26 104:9,10 105:8 106:7, 15,18 107:14 108:4,13 109:2 112:17 113:19 115:16,17,25,26 121:20,24 133:23 134:18 136:18 138:14, 15,17,21,22,24 141:8 155:26,28 156:2,7,11, 13 168:1,6,7 169:19
effect 52:14,17 147:5	engage 133:13	esthetics 149:28	
Effects 155:21	engaged 75:22	estimates 9:24 111:12, 28 112:4,10	
efficiency 81:27	engagement 132:23, 28 133:4,7,16	estimating 9:9	
efforts 88:21 103:3	engineer 49:15 155:14	evaluated 46:19	
eight-page 104:25	engineering 19:18 36:4 155:11 159:20 161:13	event 16:23 65:3 75:22 117:22	
EIR 91:5 149:25,26 152:9	ensure 46:18,20 67:11	evidence 8:12 16:11 25:6,8 82:23 89:25 90:5,7 91:21 92:7,12,14 94:20,24,27 95:1,11,17, 19,22 97:9,13,15 138:14,16,21,23,24 152:11	
elaborate 143:11 144:1 166:21	enter 136:25	evidentiary 7:12 13:2	
electric 70:17 88:10 94:8 117:4 122:17,18 157:27	entering 56:19	examination 15:2 22:15 25:17 46:2 50:27 54:17 73:2 77:8 83:19 86:2 110:24 139:17 153:14	exhibits 15:8,20 16:9, 10 18:3 27:28 56:24 62:12,17 76:17 89:25, 28 90:1 91:25,28 92:4, 10 95:26 97:11 115:3, 11 138:5,7,13,26 140:2 155:17 156:17
electrical 128:25	entire 9:17 13:13 30:5 62:1 69:2 70:6 75:21 100:2 126:24 127:1 131:16 146:13	examine 165:11	
electricity 69:18	entirety 48:3 59:14	excavated 164:14	existing 59:6 129:8,9 135:27
element 61:16	entities 7:9	exceed 50:22	exists 39:11
elements 58:26 64:12	entitled 22:21 23:27 36:24 41:15 62:19 104:3 115:13 139:23 153:23	exceedance 30:18 53:14	expand 35:2 36:3 83:23 167:25
elevation 164:1 166:24	entity 104:4 125:21	exceedances 52:28 53:4 67:25 68:3	expansion 165:6,11, 15,18,22,24,25 166:1,2 167:24,28
elongate 169:19	environmental 19:19 93:12 96:10 143:15,16, 21 150:23 151:5,14,16, 21 152:1	exceeded 34:16	expect 8:26 119:28 124:3
email 13:8 18:16 83:2 84:10,21	environmentally 18:20,28 19:9 90:14,17, 22 91:2,4 92:25 96:9	exceeds 67:26	expected 9:1 85:3 167:28
emails 80:6	Enviroscreen 143:14 144:7,11 145:27 146:5, 12	excerpt 12:18,20 155:24 169:24	experience 116:26 117:1 129:27 131:27
emergency 31:13 32:5 34:6 49:6,16 50:7,8 52:15 163:4	EPRI 155:21 168:7,19	excerpted 115:21	experienced 120:12 131:15
employees 17:21	equal 118:5 119:6	excuse 26:19 27:4 42:2 65:22 95:3 106:12 113:18 135:21	expert 118:19 148:15, 25,28 149:3,4
employment 142:27, 28 145:16	equally 15:22	excused 53:26 76:15 85:11 89:17,23 114:15	experts 17:22
end 35:14 136:19,20 169:25,26			
energy 42:23 53:9 79:4 81:26 99:4 102:16 103:5,8,23 118:20			

explain 11:14 46:7 107:11 108:5,25 109:16 127:21 160:17	factual 20:21	fine 13:18 16:9 26:14, 15 91:9,14 144:17 158:8 163:8	forget 163:21
explained 94:5	failed 151:28	finish 145:8	Forgive 95:7
explaining 11:9	fails 48:26	finished 25:9 37:24	forgot 114:17
explains 122:25	failure 27:27 64:19 75:17	fire 96:15,17,23,25	Form 105:24
explanation 110:16 144:13	failures 63:18	Fisheries 141:27	formally 102:12 125:16
exposed 52:23	Fair 72:14	flavor 18:25	formula 48:8
exposures 143:15	faith 14:5	flood 163:19,25 164:2, 5,10	Forrest 7:17,26 8:28 9:5 10:5,12,17,26 11:9, 16 12:3 13:4,10 19:10, 24 21:2
express 121:14	fall 131:1	flying 53:9	forum 111:14
expressed 78:17	falls 137:17	focus 93:4 125:4	forward 90:12
extensive 17:2 59:4,6 74:12,28	familiar 26:8,10,27 35:27 36:6 72:3,15 117:13 118:3 121:17,21 124:28 136:10 137:4 168:14,16	focused 165:4	forward-looking 110:8
extent 14:6,14,20 56:5 78:12,16 87:5,9 96:22 119:10 149:8	fault 49:22 64:24 159:1 160:4	folks 16:26	four-hour 32:11
extra 33:15	faults 58:10	follow 80:26 82:11	frame 18:4
extremely 162:11 163:5	FEA 164:23	follow-up 163:9	frankly 111:9
Extruded 155:22	feasibility 19:8,13,15 34:23 90:13,17	footnote 99:3,17 100:28 103:20 105:16, 18 113:10 124:21	free 9:15
eye 16:12	February 103:24 151:9	force 169:20	Freeman 30:5 31:12,15 59:22 61:12,13
<hr/> F <hr/>	federal 137:4,8,12 142:15,16,24	forces 61:25	Friday 27:5
face 13:28 42:7 56:15, 16	feed 69:18	forecast 26:23 40:25, 26 42:23 43:1,10,15,24 44:3,4,19 79:5,28 80:8, 16 81:1 82:16 83:23,24, 25 84:25 99:5 102:1,12, 17,19,23,26 103:4,6,10, 14,23 105:21,23 109:20,24 110:1,4,8 118:25,27 119:13,17 123:6 125:23 126:14, 23,28 127:2,10,13,17, 19	front 41:24 78:28 80:21 84:13 95:15 126:4 134:7 141:12 158:25
facilities 36:1 58:22 70:18 73:25,28 94:7	feel 94:28 148:11 150:6	forecasted 51:10 129:6	full 100:5 160:8 162:7, 21 166:8
facility 88:8 135:27	feet 162:13,17 163:6, 13,27 164:4,9	forecasting 44:9 51:19 79:21 117:8,11 121:15 124:8,10 125:17 126:19	<hr/> G <hr/>
fact 73:12 83:12,13 95:11 144:14 160:9 167:10	FEIR 9:10 152:3,7	forecasts 103:27 104:7 105:10,11,26 109:26 111:23 118:25	G-A-R-C-I-A 85:26
factor 42:2,10,28 43:2, 6,26 44:2,5 47:11 48:10 52:3 120:10 144:21 145:3,4,18,21,24 146:3, 5,7	FEMA 69:26	foregoing 20:25	G-A-R-Y 139:14
factors 44:13,21 117:28 118:5,8,27 119:16 143:7,8,13,18, 19,25 144:3,25	figure 60:16 100:18	Forest 142:17 148:13 150:25 153:3,4,15 154:21 158:17	Garcia 85:13,14,18,25 86:4 87:13,14,22 89:15
facts 56:1 78:12,13 87:5	file 99:6		Gary 96:1 139:9,10,14 146:19
	filed 7:21		gas 88:9 132:17 133:2,8 157:27
	filing 13:1,20		gas-fire 130:4 135:7
	final 50:2 149:26		gas-fired 134:21 135:12 136:21
	finalize 164:26		gather 62:5
	find 71:8 106:11,16,21 107:17,23 108:14 109:3		gave 27:15 80:13 134:2
	finding 51:7 137:15		
	findings 169:28		

GE 88:13,18	gray 82:10	heading 19:2 106:23 134:22	Honor 7:17 9:1,4 10:6, 20,26 14:25 15:14,26 16:20 17:17,28 19:10 21:2,3,16 25:3 27:12, 18,23 28:1 36:17 41:9 42:5 45:10,16,28 50:25 52:10 53:20,23 54:1 56:9 57:5 62:11 68:5 72:25,27 76:12 77:3,7 78:21,25 79:1,7 82:9,18 83:7,27 84:14 85:7,9 86:1 87:14 89:27 90:15 91:15,23,26 95:7,12 96:20,28 98:7 100:7 101:20,25 103:25 104:5,13 110:20,23 111:3 112:14 113:27 114:7,21 115:8 116:1 118:14 123:28 124:6 134:6 137:22,25 138:8 139:3,7,16 140:23 141:5 145:12,15 147:3 148:13 150:25 152:25 153:4 154:22 155:18 159:25 162:6 168:8
general 88:10 103:7 146:25 147:2,4,13,18, 21,23,27 148:1,9,23,25 149:1,4,11,17,21	great 12:13 15:7,8,17 18:17 118:23 169:5	heads-up 20:13	hope 56:25 92:20
generally 107:18 122:25 130:8 166:3 168:16	greater 51:9 108:3	health 143:18 146:9,10	hoping 27:4
generating 75:6,14 100:24 134:21	grid 40:18 44:17 66:11, 12	hear 60:5	horizontal 65:25 66:11
generation 53:13 65:21,26 66:2 88:8 93:1,4 129:26 130:5,28 131:19,25 135:7,27	gross 65:21,22,28 107:5,24 108:21 109:9 110:14 112:24	heard 44:7	Hospital 74:6
generator 39:1,6,9,11 76:1 88:28 89:3	ground 164:14	hearing 7:12 13:3 139:1	hospitals 73:26
generators 88:9,23 131:9	grounds 20:16,17,18	Hearn 57:16	host 73:28
geographic 50:12 163:16	grow 119:24	heat 120:7	hour 97:22
geometrically- shaped 164:19	growth 118:26 119:10, 12,19 129:6	heats 169:17	hours 31:24 32:14 68:4 76:3 88:2 100:25 122:20 132:10
George 57:10	guess 31:3 81:25 97:9 109:25	heavily 164:13	https://efiling 99:13
gigawatt 122:19	guidelines 36:26 37:1, 27	heftier 114:19	Humboldt 116:18
gist 92:22	guilty 27:26	held 118:8	hundred 162:13,17 163:12 164:8
give 15:21 20:12 27:24 36:18 81:6 129:14	<hr/> H <hr/>	helpful 100:7	hurdle 20:20
giving 39:15	H-E-A-R-N 57:16	helps 46:24 59:12	hybrid 11:19 20:3 90:26,28
gnarlier 96:4	half 76:3	Hidalgo 19:12	hypothetical 34:2 120:17 121:7
goal 20:8 61:15	hand 62:12 88:25 159:27	high 44:3 53:10 68:14, 26 70:13 73:24 90:10 92:19 130:14 145:16,17 146:2 166:24	hypothetically 26:19, 21
goals 20:2,3 151:22	handed 84:15	high-demand 132:9	
good 14:5 15:2 54:19 77:10,11 86:4 99:7 101:26 114:24 139:19 153:16,17 154:28 155:3 161:5 166:4	handle 16:28 162:23,27 163:2	high-load 131:6	
government 142:15, 16,25	Hanson 57:10	high-voltage 168:21	
governs 124:9	happened 59:18 64:22 120:19 121:10 163:26	higher 43:13 44:9 143:23	
granting 39:15	hard 14:15,24 20:13,20	highest 128:12	
graph 66:8,28 80:20 81:4,12,19,21 82:5,8 100:19	Harvey 59:21	hill 163:27 164:3,6	
graphs 80:19	hatches 66:23	hills 161:23 163:16,18, 24 166:14	
	hazard 69:26	hilly 162:11 163:5	
	hazards 143:16	history 120:19 121:10	
	HDUL 69:4	hold 17:4,7 166:17 167:19	
	HDULA 68:24 69:11, 12,15 70:5,6	holding 118:4	
	head 79:21,22	holds 12:22 102:27	
		Holdsworth 25:21,25 26:3 27:5	
		Holdsworth's 26:16	
		home 145:23,25,28	

<u>I</u>			
I.c.3 86:10	implement 48:27	16:17,24 17:16 83:8,11	interest 90:12 96:6
idea 167:23	implemented 50:4	105:16	interested 80:28
ideas 28:13	implicate 16:16 18:26	informational 93:13	internal 60:1,4 66:1
identification 37:25	important 93:21	initial 74:3 75:2 113:15	73:6,14,18,20 88:9
38:1 41:19,20 54:23	109:23	149:11	129:26 135:16
55:3 62:18,22,23,28	improve 58:27 59:12	inputs 102:25 103:11,	interrupt 71:1
63:2,7,9 77:16,21 79:10	improvements 58:17	13	intersect 66:26 69:17
86:8,13 92:18 95:20	inadequacy 129:15	inquiries 14:5	intersects 66:18
97:4,6 104:9,10 115:15,	inadvertent 61:26	inquiry 21:18	interval 31:24
17,24,26 121:23 133:22	inappropriate 61:26	inserted 167:11	intervenor 9:1
155:18 156:2,3,8,13	include 21:23 31:15	inside 158:27 160:21	intimated 18:15
identified 31:11,22	32:25 47:17,21 82:13	167:20	introduce 12:6
33:21,28 57:18 73:21	125:11 142:27	insight 169:3	introduction 57:11
91:4,18 93:6,16,25	included 39:22,26	inspect 58:23	Investigation 101:2
143:6	75:19 84:8 148:9	install 34:24 35:3	Investments 7:16
identifies 68:25,28	includes 47:20,21 59:4	installation 160:11	investor-owned 125:5
identify 21:22 29:10	65:9 68:23 99:3	161:11	involved 155:10
40:11 58:16 70:1,9,12	including 56:2,23	installations 130:2	158:22
identifying 75:22	115:20 156:10 157:12	installed 155:23	IPER 109:27
92:23	income 144:21 145:3	166:16	IPP 135:22
IEPR 40:27 42:23	inconsistent 123:15	installing 34:11,19	IRP 125:10,25 127:9
43:10,25 44:4 79:21	incorporated 23:12	instance 164:16	134:19
105:11,21 124:26	140:10 154:11	instants 109:19	irrespective 128:9
126:22 127:13	incorporates 102:24	Instituting 101:1	island 70:16
II 24:6	increase 51:16 119:25	instructed 80:19	ISO 40:15 42:16 44:17
II-E 86:14	120:1	insulation 160:21,23	46:13 51:12,21 70:12,
II-F 86:15	increased 58:20 91:1	161:1	22 71:4,6 73:22 94:1
II.A 77:22	Increasing 92:28	integrated 79:4 115:22	103:1 127:17 132:24,28
II.B 77:18	incremental 20:22	122:6,25 123:7,13	133:2
II.C 55:6	Independent 102:21	124:22 125:1,4,17	ISO's 40:13 92:16,28
II.C.1 57:8	India 28:4	126:15 127:6 133:24	93:19 94:9
II.C.2 86:10	indicating 115:21	134:14	ISO-01 92:18 94:20
III 22:28 23:18	indignation 81:11	intend 19:12 36:28	95:18,20,22
imagine 146:22	individual 93:20	intended 91:16	ISO-CONTROLLED
impact 20:18,22,26	119:21	intending 56:24	40:18
73:5 96:23,25 118:10,	industry 168:27	intent 10:12,15,17	isolating 61:3
13 119:9,11,14,19,22	infeasibility 18:27	59:23 62:1 85:1	issue 14:20,25 18:22,
120:10 150:6,10 152:13	21:11,28 91:8	intention 20:12	26 20:21,22 21:13,14
impacting 49:26	infer 44:20	interaction 124:25	33:21 42:27 49:28 60:2
impacts 93:12 96:11	information 14:1,6,10,	interconnection	91:17 94:11 131:19
119:20 120:5 149:8,23	17,21 15:10,17,18	25:27 59:7,8 73:19	132:25 133:1,3,11,19
			issues 19:4,5 21:20,22,
			24 50:9 70:2 91:18 94:8

131:9,11,24 132:18	justified 70:23	large 102:24 164:11,18	limit 9:10 61:1 67:27 144:15
item 169:16		larger 127:27 159:2,4	limited 14:13,20 88:2
itemizing 119:20	<hr/> K <hr/>	largest 38:28	limits 58:25 69:9
items 70:11	Kathy 19:11	Larisso 95:28	line-clearance 58:23
it's 100:5,22 105:26 106:22 107:18 116:16 122:1 128:16 129:19 134:25,28 135:3 136:4, 5 162:1,21 165:21,25	Kavalec 79:18,26 82:14 84:10,21	law 123:6 124:4	lines 24:15 28:13,14,18 29:5 30:3 31:14,21 32:3,6,13 35:7 40:22 41:3 57:25 58:3,21,24 59:19,21,23 61:1,2,5 63:16 64:15,27,28 66:9, 12 67:8 69:17 71:20 73:7,14 79:16 87:23 88:7 121:13 132:2 141:19 143:5,6 157:16
<hr/> J <hr/>	Kavalec's 85:1	Lawayne 57:15	
	KCMIL 158:12	lead 118:1	
	keeping 20:4	leads 119:7	
	Ken 24:13	learn 82:8	
Jeanne 9:18	Kevin 8:6	leave 16:27 17:23 30:24 76:16	
Jefferson 156:26 157:9,19 158:18 161:6	Kim 21:15,16 96:20 141:1,4,5,10 145:11,15 147:10,14 148:19 151:1,11 152:22	Lee 96:5,27 97:3	link 99:3,5,16
Jennifer 57:12		left 48:27	list 7:23 13:5,9,11,13,17 100:9
job 74:25 145:13	kind 58:14 93:18	legal 19:12 147:4	listed 110:13
jobs 116:27	kinds 9:15	legality 19:19	lists 107:5 116:27
Joe 17:28	knew 36:4	legally 26:5,24	live 49:24
John 92:16	knowledge 20:19 23:16 24:21 56:3 73:27 74:28 78:14 81:13 87:7 103:7 123:23 140:14 158:9	legend 100:19	live 49:24
Joints 155:22		legislature 123:26 133:7,14,17	LMS100 134:20 135:27
judgment 36:4	kv 28:25 31:5 32:3,6 33:9,12 38:14 39:4 57:27 58:17 59:5,20 64:24 65:1 155:7 157:9, 26 158:9 159:17,21 160:12	length 166:2	load 26:5,22 30:6,10,24 31:5,12,18,26 32:1,22, 28 33:4,8,24 39:9 42:3, 4,11,14 43:13,14 44:2, 8,23,24 45:1 46:17,21, 25 47:13,14,18,21,22, 23,24 48:20 49:9,11,20, 23 50:16,18 51:7,10,12 52:2 53:7 60:12 61:15 63:17,22,26 65:10,12, 14,22,28 67:28 68:14 70:14 73:24 75:5,18,26, 27 79:21 80:25 81:20, 26 83:9,12 88:3 94:2 104:3 107:6,24 108:21 109:9,24 110:14 111:1, 17,22,23 112:2,17,18, 25 116:7,8 117:7,11,20, 22,26 118:2,10,13 119:7,10,12,13,19,24, 28 120:8,10 121:15 123:6 124:8,10 125:16, 22 127:17 128:2,8,17, 21 129:6,8,9 130:12,14, 16 135:16
July 136:20		Lesch 68:7,9 76:17,18, 21,27 77:10,25 78:20, 21,28 79:13 83:21 84:8, 18,20 85:10	
junction 7:10		Lesso's 21:8	
June 7:21 8:4,18 10:1, 2,3 11:10,20,27 12:1,2, 4,18,21 39:16		letting 17:24	
JUR-01 95:27 97:4,11, 13	<hr/> L <hr/>	Let's 114:2,11 117:7 129:24	
JUR-02 95:27 97:4,11, 13	L-A 57:16	level 25:28 26:1 46:17 70:24 74:5 90:10 91:8 92:19	
JUR-03 95:27 97:6,12, 14	L-A-F-O-N-D 54:14	levels 145:23,25	
JUR-04 95:27 97:6,12, 14	L-E-S-C-H 76:28	Lewis 24:13 42:22	
jurisdiction 69:22 137:9	La 30:14 60:23 61:4,11	licenses 142:9	
Jurupa 21:17 74:8 95:26 97:10 140:28 141:1 146:15,24 149:24 150:7,11	labeled 28:19 106:6,11, 12,16,17 107:17,19	lieu 95:2	
justice 96:11 150:23 151:5,15,16,21 152:2	lacks 159:26	life 148:11 150:11	
	Lafond 54:6,14,19 55:15 56:10 57:7,23 60:5 63:13 68:7,13 71:3 72:8 73:4 76:9,13 131:13,28	Lifelines 70:3	loading 44:17
		lightly 81:25	loads 63:24,25 75:20,
		lights 74:22	

21,24,25	maintain 60:28	math 67:2 107:8 108:2, 23 109:14	mid-demand 112:18
local 38:28 51:28 69:26 83:25 99:5 102:28 103:2 117:24,26 118:9, 10,11,13 120:1,8 122:16,26 123:2 126:25 127:6 128:1,4,12,13	maintenance 75:8 88:26 130:5,8 131:1,6 132:11	mathematical 48:8	Mike 15:14
locally 52:1	majority 165:21	matter 19:14 29:25	miles 64:25 163:15
located 35:9,13 134:26 135:1,3 136:1	make 10:25 19:12,27 23:3 24:9 26:12 37:16 58:24 81:10 95:10 98:26 99:23 100:9 116:4 140:7 154:8 157:23 163:23	maximum 18:23 32:5, 8,13 137:16 164:8	million 69:5
location 36:2 59:15 75:1 161:17 163:21	makes 131:7 169:13	Mcdowell 57:12	mine 134:4
locations 29:7	making 10:8 43:12 102:25 157:15	meaning 90:21	minimum 164:4
Loma 28:22,24 29:3 32:28	manager 74:27	means 39:2,3 42:13 50:16 132:7	minus 64:12
long 11:23	manhole 160:14	meant 21:8	minus-one 37:12
long-term 124:26 136:25	manipulation 49:11	measured 128:2,6,8	minus-two 37:13
longer 10:24 57:6,13 74:27	manufactured 88:10	meat 129:6	minute 18:10 23:8 106:20 114:12
looked 33:16 69:16,23 72:18 80:23 109:19	manufacturer 87:25 89:2 165:9	Mechanical 155:21	minutes 45:19 114:8
loop 83:2	March 9:22 11:26 12:1 22:27 168:13	meet 51:7,9,11 70:5,7 73:8 88:3 152:1 157:28	Mira 28:22,24 29:3 32:28
loss 32:21 38:28 64:12 65:4	mark 12:19 56:24 57:17 62:18 77:2 79:8 115:6,9 155:18,25	megawatt 84:21 85:2	missing 66:10 91:13
lost 117:17	marked 8:5 36:27 37:24,28 38:1,5 41:18, 20 48:6 54:23 55:3 62:21,23,28 63:2,7,9 64:4 65:7 67:15 77:16, 20 79:2,6,10 80:3 86:7, 12 92:17 95:20 97:4,6 98:21 104:9,10 115:15, 17,24,26 121:23 133:22 140:1 156:2,7,11,13 168:6	megawatts 55:12 65:26 67:27 75:5 84:26 107:9 108:3,24 109:15 113:22 117:21	mitigate 32:20 58:13
lot 17:3 33:15 35:1 68:15 96:25	marking 37:24 61:24	member 133:17	mitigation 18:27 57:28 69:26 96:13
loud 103:20 107:20,26 108:17	Martin 156:26 157:9,20 158:18 161:6	members 79:24	Mm-hm 99:27 101:6 107:25 112:6 116:6 119:26 122:23 127:20 137:14
low 44:18 53:10 103:22 144:20 145:1,2,23,25, 28	master's 116:17 141:23	memo 19:2,5	Mm-mm 80:4
lower 109:21	match 55:13	memory 84:20 126:28	mode 51:3
lowest 109:25	material 15:9 23:22 24:28 140:20 154:18	memory 84:20 126:28	model 88:27
lows 43:21	materials 11:20	mention 8:4 21:28	models 88:13
LSCMBA 103:21		mentioned 52:27 71:4 97:16	modifier 112:3
Lynn 59:21		mentioning 35:24	moment 15:27 105:17 154:9
		mere 117:22	morning 13:11,13 54:19 57:1 77:10,11 86:4 127:25 131:12
M		merit 93:11	mornings's 13:17
		met 129:1	most-recent 105:20
made 56:2,15 113:12 154:22 169:14		meter 39:7	motion 7:15,18 8:9,11 12:26 13:22,23,27 16:8
		methodologies 118:25	motions 25:7
		methodology 9:6,8 10:28 11:13 103:13	move 16:10 25:5 82:7 89:25 90:1 91:27 119:1 138:6,7 145:8 166:18, 26 169:17
		Metropolitan 74:11	
		mid 81:20,25	
		mid-baseline 103:22	

moved 25:6	noncoincident 43:23	objection 42:5 72:7 84:5 92:6 94:19,21 111:3 119:2 123:28 124:12 138:9,18 147:3 148:13	operation 163:3,4
moving 12:26 13:14 169:16	noncritical 63:24,25 75:20,24,26	objections 14:23 90:3 139:1	operational 32:20,26 92:23,27 94:10
multi-jurisdictional 125:7	nondisclosure 17:11, 19	objective 26:11	operations 52:25 74:27
multiple 62:3 63:18 64:18	nonresponsive 145:9	objectives 19:26 73:8 129:1	Operator 102:21
municipal 74:13 123:3 125:11,15	nonwires 26:23	objects 58:24 159:5	operators 61:21
municipality 142:28	NOR-01 97:17	obstacles 163:17	opine 148:16
MVA 30:10,16,20,25 31:22 32:27 33:1,22 34:1 53:5,6	NOR-1 8:5	occur 34:2 85:2	opinion 119:1,5,11,21 147:16,19
<hr/> N <hr/>			
N-1-1 52:16,19	Nora 17:17 114:26	occurred 43:9	opinions 56:6,7 78:17, 18 87:10,11
named 40:2	Norco 8:7 97:19	occurring 42:15	opportunity 63:23 152:7
names 57:4	normal 32:15 34:7 50:20,21 67:12 88:24 162:16 163:3	October 64:23 74:19 131:15	opposed 51:13 105:24 163:13
National 142:17,19,23	North 155:24 160:12	offer 51:1 91:25 118:28 119:5,11	optimal 52:21,23
nature 18:6	notch 66:16	Office 17:5 27:11 37:21 82:4,20 87:18 98:10 138:5	options 37:13
necessarily 93:22 94:10 136:24	note 55:13 58:2 68:6 109:24 161:20	Office's 81:22	ORA-SED-001 63:6
necessitate 130:15	noted 28:1 34:10	Office-riv-001 62:27	orange 81:24 100:22 158:3,6
Necessity 22:25 24:2 139:27 153:27	notes 114:2	offline 10:21	Orancrest 30:14 60:24 61:12
needed 33:16 67:10 94:11 162:23,26 163:1, 17 169:4	notice 7:10	one-third 166:22	order 27:7 37:23 76:19 79:6 101:1 155:28 156:8 164:4
negate 34:21 73:14	noticed 13:16 55:10	online 130:14 131:18, 21	ostensibly 19:24
NERC 94:14,15	notwithstanding 93:11	onus 16:11	outage 52:14 58:14 64:11 76:2,5 120:15,22
net 65:28	number 15:8 23:5,6,10 24:16 44:18 70:1 74:9 88:2 102:25 107:23 113:17,19 117:28 144:24 146:9 155:15	open 29:17 48:28 61:8 62:3 106:8 148:10 149:23 152:5	outages 57:26 58:6,9 120:13 121:4
network 58:11	numbering 104:14	opened 163:25	outdoor 148:11 150:11
Newman 96:1 151:3	numbers 9:26 10:6,9, 18,24,28 11:2,13,25,26, 28 12:2,3,4 67:18 80:25 82:6,11,20,21 83:14 104:17,21 108:26 116:9 121:28 158:13	opening 61:10 112:24 116:10	outreach 152:17
Newman's 96:6 150:14,18	numeral 86:9 140:4 156:21,22 159:9 160:3	operate 29:17 32:12 162:15 163:12	overarching 73:9
night 80:14 81:7 121:19	numerous 14:11 73:28	operates 129:21	overburden 164:6
non- 26:22	<hr/> O <hr/>		
non-coincident 127:18,23 128:7,11	Object 83:27	operating 32:19 33:26 48:17 50:20,21 52:24 59:24,25 60:2 61:1,17, 24 62:9 67:12 162:10 163:4	overcome 20:20 163:17
noncoincidence 40:25 42:3			overground 96:24,25
			overgrounded 96:18
			overhead 59:1 146:14
			overlap 44:25,26,27

overlapping 57:26	161:21 162:7,21 164:22 166:8 167:5,8 169:27	47:2 131:24	pile 9:15
overload 34:7,15		peaks 46:11 127:27 128:3 130:18,24	piling 93:28
overloaded 67:11	paragraphs 162:20	peek 110:14 112:9	pilot-wire 58:19
overloading 75:27	parallel 48:18 49:1 61:26	peeker 131:20	Pinjuv 92:20 93:14 94:5
overloads 32:21	paribus 118:4	pending 8:10	piqued 96:6,7
overlooked 8:16 114:18	Park 142:19,24	Penny 96:1 150:18	place 71:28 107:18 167:20 169:7
overriding 93:5,10	part 23:19 24:25 46:15, 26 49:20 59:9 60:3 68:27 69:11,25 70:24 74:2 96:5,7,16,18 105:24 140:17 148:8 154:15 157:27 158:2	people 49:24 69:5 144:20 145:2	plan 37:4 39:23,27 74:7 122:7,26 123:7,14 124:23 125:1,4 126:16 127:7,10 133:24 134:14 146:25 147:2,5,9,13,18, 20,21,24,28 148:1,9,23, 25 149:1,5,11,17 150:24 151:5,10,15,18, 21,25 152:2,4
overruled 119:3 124:13 151:6	participate 7:11	perceived 152:13	plan's 149:21
oversees 125:15	participating 7:1	percent 14:15 44:25,28 45:3,6 51:13 66:4,6 67:1 136:12 143:22 161:22	planned 61:19
overstating 70:8	parties 7:13,20 9:15 12:22 14:28 15:12 16:18 25:12 27:26 56:20,23 92:15 93:26 94:25 95:24 97:8	percentage 65:20 68:3 100:24	planning 36:14,25 37:1,26 38:9,13 40:7,14 46:22 48:22 51:6,11,23 58:16 59:3 62:21 63:28 64:7,9 68:20,22 70:25 71:7 72:1,5,9,12,15,16, 21 73:17,21,23 83:25 94:13,16 102:22,24 103:2,3 110:3 115:23 124:26 125:17 126:21, 27 127:4 142:6,9
overstressed 61:28	parts 88:22,25 89:6	perform 58:20 132:8 165:10 169:9	plans 122:6
owner 130:28	party 7:9,13 8:9,11 13:14 14:27 45:12 97:18,19 141:2	performed 130:8 164:23	plant 130:12,13 131:5 135:13,22 136:21
ownership 145:24,25 146:1	past 58:6 120:13	performs 40:16	plants 131:1,17,20,25
owns 129:17	patrols 58:21,22	period 32:11 152:5	plastic-looking 161:1
	pay 166:25	person 82:27	Platt's 157:14
<hr/> P <hr/>	peak 30:4 31:12 42:3,4, 15,16 44:8,14 45:1,6 46:15 47:13,14,17 51:6, 13,17,20,22 53:7 81:1 82:16 83:1,23,24 88:3 107:5,24 108:21 109:9, 24 111:27 112:24 116:7,8 117:20,22,26 118:2,10,13 119:7,13, 19,28 120:8,10 127:17, 19,22,23,24,26 128:1,5, 7,8,11,12,15,16,18,22	personally 17:19 152:16	play 144:3
p.m. 97:23 98:1	peak-period 67:25 68:3	perspective 19:28 46:22 48:22 89:2 93:20 94:16	point 12:16 31:25 40:22 42:27 43:11,12,15 44:10 46:28 53:5 61:9, 18 66:23 70:16,20 74:26 75:6 82:23 89:5 96:3,15 103:9 109:13, 19 110:7,12 118:21 157:8
pages 12:6,11,23 104:21 105:3,4 115:21 133:23 134:18 156:10 162:2 168:10	peaker 130:12,13 131:1,5,17	Peyton 163:22	pointed 35:6 126:20
paginate 27:27	peakers 88:1	PG&E 156:26 157:9	
pagination 159:26	peakiness 65:13	Phase 165:4	
panel 54:2	peaking 45:2 46:26	Phipps 92:17	
PAO-01 98:22 99:20 101:14 102:6 138:7,14		photograph 162:20	
PAO-01-C 99:20 101:15 138:7,15		phrase 100:4 118:4 164:22 166:9	
PAO-01-X-C 38:1		physical 35:25 165:26, 27	
PAO-03-X 62:23 92:12		pick 12:11 75:4	
PAO-04-X 63:2 92:12		picked 75:23	
PAO-05-X 63:9 92:13		picking 75:20,24,26	
PAO-06-X 92:13		picture 95:15 161:5,27	
PAO-1-C 27:21 98:22 99:2			
papers 10:1,3,13			
paragraph 160:8			

pointing 42:22	preferred 16:25	137:19	protect 151:15
points 59:15 61:8 62:3	preliminarily 83:13	process 40:7,8,14	protecting 162:4
policy 19:14,21,22,28 20:7,16,17,21 40:17 79:5	preliminary 79:28 80:7,15 82:28 83:9	43:18 102:22 109:27 110:3 124:8,10,26,27 125:1,4,11,18,26 126:19,20,22,27 127:13 155:19	protocol 88:24
Political 116:22	prepare 12:17 65:17 73:18	processes 74:7	prove 125:23
polyethylene 160:20	prepared 8:5,8 18:25 19:1,3 23:22 24:28 55:23 65:18 68:7 78:6 86:27 97:10 101:18 103:28 114:28 140:20 154:18	produce 83:10 84:22 103:14	provide 14:14 26:6,25 56:20 59:5 74:4,10 94:2 109:10 123:18 125:21 129:10 147:15
Pontelle 16:20,21,22 22:11,16 23:11 25:3 42:5 45:15,16,18,26,28 46:3 50:25 53:21,22 84:14 101:23,25 103:25 104:5,12,20,26 105:1, 14 106:22,27 108:11 110:20 111:3,8 113:3,6, 8,27 134:4,6 139:4,6, 16,18 140:23 147:3 152:24	present 80:20 97:18	produced 135:6	provided 8:19 14:8,10, 17,22 43:3 47:6 83:7, 12,15 109:20 112:23 116:10 121:19 132:4 156:19 161:13 169:3
population 69:5,7 117:25 118:12,19,26 119:6	presentation 156:27 157:8 158:19 161:6	produces 40:15 119:18	providers 125:6
populations 146:7,8	presented 14:1,7 20:25 43:26 81:21 95:2, 26	professional 56:7 78:18 87:11 116:26 117:1	providing 9:14 20:8 59:14
portion 22:21 23:26 24:23 28:25 38:11,12, 13 55:9 57:14 59:10 137:1 139:23 153:22	presents 56:6	profile 65:14,15 83:9, 12	proximity 143:16
portions 21:23 98:21	pressure 25:23	profiles 65:16	prudent 18:23 70:25
pose 37:17	pressures 20:4	programs 58:23 76:6 96:13	public 8:19 12:28 13:10,24 17:4,21,28 19:14,20,22,28 20:7,16, 17 22:24,27 24:2,4 27:11,16,19 29:24 34:10 37:20 62:27 81:21 82:4,19 87:18 98:10 138:5 139:26 140:1 141:6 153:26 154:1
position 94:1 155:2	pretty 42:6 44:12 45:4	progress 59:11	publication 159:12
positions 21:24	previous 105:10	project 18:20,21 19:27 22:26 24:3 26:1,4,11 36:15 38:10 39:16,25 40:19 70:24 73:16 90:12,20,22,26,28 92:24 93:11,22,23 96:9 128:28 129:14 135:23 139:28 147:6,16,20 149:16 151:28 152:14 153:28 155:11 157:10, 20,28 158:4,5 159:18 160:10,11 161:14,19 166:16 168:25 169:2	publicly-owned 122:16,27 123:2 124:11
possibility 120:18 121:7	previously 56:18 57:9, 17 104:3	projected 30:10	published 159:16
possibly 15:20 34:3 35:3 144:21	printed 121:27	projection 58:19	PUC 133:1
potential 33:1,27 48:16,20	prior 55:11 122:12	projects 158:10	purchase 165:16
power 20:9 26:6,7,26 65:5 74:10 129:11 135:6,13,22 136:21 157:8	privy 17:11,15	propagated 43:8,11	purports 11:14
practice 62:10 88:24	probabilities 71:27 72:2	proper 65:19	purpose 8:25 9:13 37:6,7 129:1,14 157:12 167:27
precedes 83:3	problem 11:17,22 49:27	properties 168:20 169:1	purposes 46:18 83:26 94:12,13 105:6 127:5 151:13,14
predicted 82:28	problems 34:15 35:24 36:9 132:19	property 165:26,27	pursuant 101:2 122:8 123:5
predicting 52:4	procedure 16:26	proposed 15:1 18:19 20:2 59:7 90:22 92:24 96:8 146:14 147:1,16	put 8:22 11:1 35:20 56:17,25 81:4
preference 90:24,26	proceed 37:22 54:15 63:11 77:5		
	proceeding 22:18 23:20 54:20 55:27 70:23 77:13 78:10 86:5 87:3 121:16 126:3 127:14 139:20 140:18 153:19 154:16 155:7		
	proceedings 24:26		

puts 82:20	rate 20:4 137:11	154:4,5,6,15 156:19	records 76:8
PV 130:2	ratepayers 20:6	recall 55:1 60:16 69:8	recreation 149:28
<hr/> Q <hr/>	rating 31:13 32:3,5,15 75:28	73:4,9 75:10 113:19 150:22 151:2,24	recross 89:12 113:3
qualifications 23:12 24:19 55:17,20 77:28 78:3 86:21,24 101:11 116:14 130:1 140:10 141:20,23 154:11	ratings 38:21	receipt 89:25 92:6 94:20 97:9 138:18	RECROSS- EXAMINATION 52:11 113:7
qualified 63:21	re-request 39:20	receive 8:21 25:8 56:21 97:11	rectangles 100:23
qualify 70:13	re-served 13:12	received 8:12 9:20 12:24,27 41:14 84:10 90:5,7 91:20,21 92:11, 12,14 95:18,22 97:13, 15,17 115:3 134:1 138:12,14,15,20,21,22, 24 139:2 142:2,5	red 81:25
quality 74:7 148:10 149:23	reactors 34:12,20,25 35:3,9 36:7	receives 103:11	redirect 45:14,27 46:2 50:26 72:26 73:2 76:10 83:17,19 89:13 110:22, 24 137:24 152:23
question 18:5 25:13,19 26:14,17,18 27:1 29:23 37:16 43:20 46:6 47:16 48:15 50:2 51:2 62:27 63:6 68:9 80:10 82:7 83:28 90:9 95:3 96:5,7 106:13 110:6 113:3 118:22 120:26 121:1,5 144:2,14,28 147:7 150:2,4,5,28 152:10 163:9	read 99:9 102:7 103:18, 19 105:17 106:28 107:4,20,26 108:16,20 109:4,8 126:2 162:25 163:7	recent 39:26 120:19 121:10	reduce 31:26 32:14
questioned 124:4	readily 89:7	recess 45:22,23 97:20, 22 138:3	reduced 66:1
questions 16:16 18:2 25:4 45:9 52:9 72:24,28 76:11 82:17 89:9,15 92:19 108:14 110:21 113:28 114:5,28 140:24 152:22	reading 26:17 66:8 113:15 141:22 151:2 169:3	recognize 28:7 38:6 41:26 105:7 129:13	reducing 52:2
quote 71:11	reads 47:10	recognized 19:16 102:13	reduction 118:2
<hr/> R <hr/>	real 66:28	recollection 146:23	refer 9:2 19:4 27:17,21 28:12,17 37:4 38:4,15, 25 39:14 47:26 57:23 68:14 71:6 87:22 101:28 120:21 126:19 142:12 144:9,10 148:3, 5 162:18 168:24
R-O-M-A-N 153:12	reality 43:27	recommendations 123:19 125:22	reference 41:1 46:28 67:3 72:20 99:24 105:3 118:16 120:27 124:22, 24 127:16 133:25 134:13,19 157:15,16,23 169:14
racking 165:1	reapply 39:19,24	recommends 127:3	referenced 105:16,22 111:4 117:9 156:20 159:8
racks 158:26	reapproval 39:25	reconfiguration 33:12,13,15 73:6	references 73:25 168:27
radial 102:28	reason 21:12 70:21 126:9 127:7,11 167:25	reconnected 52:22	referencing 74:18
radially 51:28	reasonable 18:24 113:24 119:27 120:2,9 130:10,20,25,27 132:1 133:5,20 135:11 136:28	record 7:4,28 8:1,2,13, 14,15,23 9:17 11:4,5,7, 8 15:27,28 16:1,2 18:10,11,12,13 22:5,6, 7,8 27:6,8,9,22 36:19, 21,22 37:15,17,18,19, 20 40:6,10 41:10,12,13 45:25 54:3,4,5,12 62:14,15,16 68:6 85:15, 16,17,24 89:18,20,21, 22 90:2 94:24 98:4,16 103:26 114:2,3,5,11,13, 14 139:13 152:28 153:1,2 156:20 157:1,2, 4 160:18	referred 71:5 94:25 110:2,27 120:23 151:9
raised 16:16	rebut 14:20	recorded 44:8 95:9	referring 14:24 28:2 32:7,8 42:17,20,21 43:16 52:14 53:1 60:17 64:10 70:26 71:18 80:15 82:14 88:6 126:20 132:26 141:6 146:9 160:10 164:11
raising 91:7	rebutals 22:1		refers 38:28 48:10 71:12 105:19
ran 35:18 169:7	rebuttal 14:2,7 22:1 23:26,28 24:9,19,24 29:20,21,27 31:20 32:17 34:9 36:11 40:21 41:2 42:26 55:4 57:24 71:12,24 74:3 77:22 82:26 83:8 84:9 86:13 88:6 126:3,10 132:27 133:16 139:23,24 140:4,17 141:7,12,17 149:15,20,22 153:23		
range 58:26 66:5 84:22			

reflect 9:3,7 10:19 43:27 80:14 87:10	renewable 136:13	resources 93:1	revisions 59:5 124:16
reflected 40:26 43:25	rent 146:2	respect 7:20 11:2,18 14:3	right-hand 60:25
reflecting 44:1	repeat 80:10 121:1 149:12 150:27	respective 81:10	risk 58:3 61:26
regard 18:16 45:5 144:8 148:4	rephrase 72:14	respond 50:6	risks 143:18 146:9,10
Regional 74:6	replace 99:8	responded 14:5 74:18	RIV-01 63:14 64:15 67:5 90:5 91:20,21
regularly-scheduled 130:9	replacement 88:22	response 13:1,22,23 14:10 16:5 28:8 34:22 41:27 43:4,27 44:22 45:13 47:7 50:7,8 65:9 68:6 83:22 90:4 92:8 138:10,19,28	RIV-02 57:24 68:13 70:27 90:7 91:20,21
Regulatory 137:5,8,12	report 79:5 99:5 155:21 168:7,11,15,19 169:3	responses 12:24 14:8 15:20 16:15 156:5	RIV-08-X 138:22
Reinforce 158:3	reporter 25:14 106:25 108:8 114:10 162:28	responsible 75:18 117:4	RIV-09-X 138:24
reinforced 164:13	reports 76:5 168:19	responsive 21:9	RIV-1 54:24 57:3,13 77:17 86:8 89:28
reinforcements 59:2	repowering 135:23	rest 11:14 49:28	RIV-2 55:3,18 77:21 79:13 86:13 89:28
related 8:23 38:13 58:2 59:28 76:5 142:9 159:20 166:1	represent 29:12,15,16 65:13 80:25 81:2 114:27 168:12	restoration 75:2,12,14, 19 76:4	Riverside 17:18,21 20:9 22:25 24:3 26:8 30:23,28 31:5 33:12 37:11 39:15 42:24 44:7, 15 45:1 46:11,25 47:1, 19,21 48:1,12 49:3,11, 20,27 50:5,13,24 51:18, 25,27,28 53:2,7,10,12, 15,28 54:6,24 56:17,23, 28 58:15 60:9,10,15 61:7,11,12 62:20 63:28 65:1,5,14 67:26,28 68:17,25 69:7,8,11,15, 27,28 70:13,15,23 72:21 73:6,13,27 74:1, 5,6,9 76:21 77:18 79:5 80:27 85:18 88:21 90:1, 11,13,16,21,27 92:5 93:2,3,7,18,28 94:2,3 106:17,21 107:18 108:14 109:3 112:23 114:27 115:11,22 116:9 117:21,22 123:1,5 125:22 130:22,24 131:16 132:4,16 133:13 134:14 135:1,4,8,14,16 136:24 139:27 153:27
relates 21:13	represented 159:11	restrain 169:20	Riverside's 46:21 47:18 55:4 69:20 73:7 77:22 86:8,13 87:23 88:6,8 89:23 94:6 102:19 112:27 114:18 126:2,10,13,15 127:5,6, 8,18 129:6,25 132:26 133:24 138:26
relation 46:26	representing 82:3,4,6	restraining 166:9,12	
relationship 44:23	represents 81:13,20 82:10,16	restraint 166:28 167:3, 4	
relative 20:27 96:15 162:19	request 7:11 13:27 14:3 34:23 41:16 47:7 62:26 63:5	restraints 165:8	
relays 58:18	requested 30:28	restriction 59:24	
released 105:21	requests 14:9,11 156:6	resulted 65:4	
relevance 51:5	require 12:9 88:25 120:27	resulting 43:22	
relevant 59:28 109:26	required 26:5,25 163:12 166:14	retaining 61:5	
reliability 22:26 24:3 40:16 46:18 58:27 59:12 68:16 70:6 94:17 139:28 153:28	requirements 68:16 88:3 122:26 123:16	reveal 18:6 42:1	
reliable 50:13	requires 25:26 57:28 130:5	review 147:21 148:24 149:1	
reliably 117:5 132:8	RERC 59:13,19,25,26 75:6,7	reviewed 13:21,26 23:11 24:18 55:16 72:8 77:27 86:20 125:13 126:5 140:9 146:19,27 147:23,24 149:6 150:18 152:10 154:10 169:5	
relied 12:11	research 168:25	reviewing 150:14 151:26	
relieve 135:17	residents 152:13	reviews 125:16	
relying 9:27	resolve 133:8	revised 11:13 99:4	
remainder 61:5	resource 115:22 122:6, 25 123:7,14 124:22 125:1,4,17 126:16 127:7 133:24 134:14	revision 48:17	
remaining 49:2			
remember 34:4			
reminded 8:17			
remove 7:8,13 73:20			
removes 59:24			

Riverside/san 68:23 69:1	68:25 69:16,28 157:26	136:11,27 143:10	shed 33:4 63:23,24 75:26
Robert 16:22	satisfaction 19:26	send 100:8	shedding 63:17,22 75:19
rock 164:16	save 20:10 68:8	senior 79:23	sheet 41:18 56:16 104:24 115:20
Roman 86:9 140:3 153:5,7,12 154:2,21 156:21 159:9 160:3	SB 48:24 125:14 143:23 144:6,12,23 145:20	sense 19:27 131:7 163:23	Sheriff 15:26 17:17 54:1,16,18 56:9 57:5 68:5 71:14 72:7,27 73:3 76:9,18 77:7,9 78:20 80:9 83:18,20 84:7,17 85:4,6,13,28 86:1,3 87:13 89:11,12,24,27 90:15,25 91:15,23 114:7,20,21,23,26 115:8 116:1,2 117:19 118:17,24 119:8 121:2 124:6,17 134:5,10 135:25 136:1,7,9 137:22 139:3
room 16:27 17:10,12, 15,23,26 35:2	SCE 7:19 16:22 22:14 47:14 129:23 139:10 141:7 142:14 153:7 160:10	sentence 23:6 47:10 48:7 102:7 142:13 148:27 165:2	
roughly 113:21 163:27 166:22	SCE's 22:21 23:26 139:23	separate 93:17 127:12, 13,15,28	
route 14:16 166:13,22, 23	SCE-02 29:28 140:2 141:8	separately 148:20	
routine 88:26	SCE-02-C 140:2	separation 61:15	
row 106:12,16 107:5,17 108:21 113:17	SCE-07-X 138:21	September 36:26 37:27	
RPU 40:24 43:23 58:11	scenario 33:7	serially 54:2	
RTRP 38:10 50:6 59:4, 9,16 60:3 67:10 73:9, 15,16 102:2,15,18 129:2 137:3 146:14 147:1,16 149:8,16,24 150:11 151:28 152:14	schedule 8:9 14:28 15:2 130:28	series 34:11,20,25 35:3,20 36:6 67:19 103:27	Shoemaker 24:14 98:9,10,17,20 99:19 100:17 101:10,20,26 105:2,7 110:19,26 112:16 114:15,24 116:3 120:25 121:26 133:26 137:21,27
RTRP's 150:5	scheduled 74:22	serve 8:26 25:27 26:22 51:15,17,26 52:3 61:6 67:28 94:2 135:15	Shoemaker's 118:16
Rucker 87:16,17,21 89:8	Science 116:23	served 8:8,17 11:10 13:5,6,7,8,11 22:27 24:5 39:9 47:23,24 48:11 51:28 140:2	short 158:2
Rule 56:21	scope 124:2	serves 28:26 48:3 84:20	short-circuit 34:15,16 35:19 61:28
ruling 124:24	scoping 19:2,5	service 13:5,8,11,13,17 26:5 39:12 50:13 64:20 70:16,20 100:8 125:6 142:17,20,24	show 20:22 28:23,28 29:3 168:11 169:28
run 34:13,14 75:13 127:14	score 143:22	services 65:2	showed 55:12 109:22
S			
S-BEND 167:12,27	scores 144:7,11	showing 43:15 105:5	shown 108:3
S-C-O-T-T 76:27	Scott 76:21,27	shows 11:12 63:5 83:11 113:20,21 132:5 158:21	side 29:1 31:8 35:14 60:25 71:16
S-H-O-E-M-A-K-E-R 98:18	Scratch 106:13	SESSION 98:1	signed 17:19
S-T-E-P-H-E-N 54:14	seal 16:9 17:9	set 18:23 41:16 52:20 62:26 63:5 70:15	significant 65:3 82:27
S-T-E-V-E-N 98:18	seat 54:11 76:25 85:23 98:15 153:11	settled 22:6	significantly 109:21 110:12
safe 62:9	second-line 90:20	seven-page 115:13	similar 36:8 48:7 65:16 83:14 107:16 108:13,19
sag 64:26	section 17:8 22:28 23:18 24:6 29:1,2 33:13 37:5 38:15,20,25 43:14 49:10 55:6 57:8 71:19 77:18,22 86:14 122:4,8, 13,15,24 123:10,17,24 124:9 140:3,16 154:2, 14,17 159:22 162:19	severe 166:24	
San 28:18 30:6,19,25 31:6,11,23 33:9,22,24 48:21 49:9,20 61:1,22	sections 34:13 47:13 54:25 123:24	shallower 163:13	
	security 58:20		
	Senate 101:3 115:13 121:17 123:24 125:27		

109:2 137:19 169:14	solid 160:26 164:13	spend 19:28	98:15 116:18 123:6
simple 144:2	solution 32:20,27	spent 142:13	139:12 153:11
simplify 166:4	solve 49:16,27	splices 158:28 159:2	stated 67:10 79:26 80:1
simplifying 93:2	someplace 49:22	166:17	127:25 129:28 131:16
simply 11:1 128:8	sort 29:14 68:15 118:22	split 30:23 49:10 52:21	150:17 151:13,22
single 11:11 49:22	157:7	60:9 61:17 62:7	statement 43:20 83:5
70:16,20	sound 113:24	splitting 59:26	111:11 112:7 126:10
sir 141:13 142:11,26	sounds 120:2,9 122:28	spoken 22:2	129:28 148:12
144:17,24 146:1,21,26	130:10,19,25 131:28	sponsored 57:15	statements 95:8
147:21 149:5,13,25	133:5,20 135:11	101:15	states 21:14 87:24,28
150:20 152:17,21 161:9	136:16,28 151:23	sponsoring 22:17,20	88:7,13,18 125:14
sitting 20:14 95:15	source 26:6,7,25 50:12	23:26 54:20,22 55:2	127:8
situation 21:27 43:28	70:19	57:7,9,10 77:12,15	static 169:16
49:16 52:24,25 59:17	sources 65:19	86:5,9,14 98:20 139:20,	stating 20:24 79:25
situations 63:18	southern 17:20 22:12,	22 153:18,21	station 30:6 53:5 59:13
size 157:22,24 161:18	22 23:27 28:8,26 36:24	sporadically 17:7	60:9 61:18 62:4,7 75:6
sizes 158:11,14	38:8 41:27 46:12 47:28	spreadsheet 104:21	134:21
sizing 35:22	49:4,18 69:20 72:4,8,17	Springs 30:14 60:24	stations 30:13,15,23
Sky 7:1,15 9:19,27	129:19 131:3 134:20,26	61:10 75:14 87:24 88:1,	31:17 60:10,28
12:27 13:6 14:16,19	136:1 139:8,24 153:4,	8,15,22 131:17	status 7:9 8:10,11
15:15 18:18 21:7	22,23 155:6 156:5	squares 29:10,12	15:16 97:19
155:26	158:3,6	stand 10:11 12:2,3	statute 125:13,27
SKY-10-X 156:2	SOV 32:27	22:13 139:9 153:6	statutory 122:24 124:9
SKY-11-X 156:13	space 35:1,25 148:10	stand-alone 93:9	Staying 31:20
slideshow 157:8	149:23	standard 33:26 64:10	steep 166:14,18
slight 90:25	speak 21:3 71:25 72:11	88:24	step 150:16
slopes 161:21	81:9 113:5 150:26	standardized 9:7	Stephen 54:6,13 57:7
small 125:7 148:10	speaking 42:25	standards 36:14 70:6	steps 89:19
163:26	speaks 42:7 44:22	72:1,5,10,12,16,17,22	Steve 95:28
small-town 150:6	148:14	94:14,15	Steven 24:13 95:28
snapshot 12:21	special 166:14,28	stands 32:12 37:6	98:8,10,17 131:13
Socalgas 132:24	specific 14:9 21:19	160:19	stipulated 97:9
social 150:23 151:5,15,	33:17 65:17 70:1,9	start 75:13 77:6 106:14	stockpile 88:22
16,21 152:1	128:6,9 131:27 150:2,5,	136:19 155:19 156:25	straight 76:8
socioeconomic	10 165:15,18 166:28	164:1	strategy 48:23 50:3
143:17	specifically 21:13	started 44:19 75:11	strictly 119:21
SOCRE 158:4	22:20 54:22 58:28	83:21	strike 7:15,18 12:27
Solar 130:2	71:13 73:12 77:15	starting 42:27 43:15	13:27 145:8
soldier 159:26	91:17 93:19 98:24	44:10 102:8 103:9	stripping 75:24
sole 21:10	120:23 125:2 126:22	110:7,12	struck 93:27
	139:22 141:19 143:5	starts 16:14 88:2	structure 164:12,14
	149:15 151:27 153:21	162:22 164:22 166:9	
	159:19 160:21 162:19	state 7:4 10:23 20:19	
	spell 54:11 76:26 85:23	30:3 54:11 57:25 58:3	
	98:15 100:1 139:13	63:21 76:26 85:23	
	153:11		

studied 34:3	supplement 7:19 8:4, 17 11:10 12:21	T	terms 9:2 27:27 59:1 69:14 96:14 112:24 119:20 120:23 147:21, 26 148:25
study 35:17 47:3	supplemental 10:18	tabbed 27:24	terrain 162:11 163:5 166:18
studying 46:17	supplementing 10:13	table 11:11 12:15 56:18 57:1 67:25 68:22 80:26 81:3 82:11 106:3,10 107:4,22 108:20 109:8, 21 111:16,26 112:8,19, 26 113:11,17,21 116:5 117:16 161:28	test 169:8
stuff 9:16	supplies 74:12	tables 11:19 56:19,22 80:6,12 103:21 105:4,5, 8 109:22 110:26,28 111:2,5	tested 81:15
subject 7:23 14:22 72:7 82:2 94:15 103:3 124:18 137:18	supply 132:17 133:8	TAC 128:24 130:18	testified 21:25 22:14 37:12 54:7 76:22 85:19 98:11 139:10 153:7
subjects 16:14	support 21:23 89:3	tagging 61:23	testifies 82:25 96:8
submit 103:26	supporting 22:23 24:1 90:27 139:25 153:25	takes 31:13 56:13 143:14	testify 155:5
submitted 21:12 122:9 154:1	supports 167:19	talk 120:15 121:7 129:25 142:13 145:10 160:9 167:10 168:10	testifying 25:10 120:24
subsection 136:5 143:7	supposed 66:8 100:21, 22	talked 120:4 164:25	testimonies 21:20 97:10 150:21,26 151:3 152:12
subsections 70:5	surmise 69:10	talking 39:27 53:9 96:12 118:24 120:17,18 121:6,9 124:6 146:24 159:28 160:2	testimony 7:21 8:6,8, 18,24 9:23 10:4,6,10,22 14:2,8,12 15:19 18:17, 25 19:1,3,11 20:26 21:7,8,13,14,23,28 22:1,18,21,23,28 23:3, 13,19,20,27,28 24:6,10, 19,24,25 25:5,25 26:16 27:16,20 28:17 29:20, 21,28 31:21 32:18 34:9 36:12 39:13 40:21,23 42:21,26 53:25 54:20, 24,28 55:4,9,23,27 56:1,6 57:14,25 60:14 63:14 64:14 67:5 70:26 71:5,12,25 74:3,4 76:14 77:12,17,22,25 78:1,6, 10,13,17 79:6 81:22 82:26 83:8 84:1,3,9 85:11 86:5,9,14,18,22, 27 87:2,3,6,10,23 88:7 89:5,16 91:14,16 92:21, 22 93:28 94:6,7,23 95:28 96:6,12 98:21 101:11,14,27 102:5 103:16 105:28 106:10 107:4,23 109:7 112:24, 27 114:6 115:1 116:5, 11 118:16,21 120:22,27 126:3,11 127:8 129:24 132:2,27 133:16,25 134:15 137:2,28 139:20,23,25 140:7,11, 17,18 141:7,12,17
subsequent 91:5 136:25 149:25 152:9	survey 17:25 152:15	talks 134:20	
substation 30:9 31:5 33:5,14 34:8,28 35:2 36:1,2 42:11 47:12,17, 25 48:10 51:16 53:1 59:20,22,27 61:17 65:23 67:28 70:20 72:6 74:17 75:23 120:12,16 121:4,8 129:15,18,22 135:9,15	surveys 152:12	tall 163:27	
substations 31:8,10 49:13 60:22 61:4 62:2	suspenders 104:14	Tang 57:6,9	
subtransmission 36:14,25 37:26 38:9 58:10 72:5,9,16,21	sustain 84:4	tariff 25:26	
suggest 111:12 112:1, 2	sustained 120:7	tariffs 26:18,28	
suggesting 93:8	swath 49:25	team 164:23	
suggestion 34:11	switching 76:6	technical 124:2 155:21 168:7	
suggests 113:11	sworn 22:14 23:20 24:25 54:7 55:26 76:21 78:9,13 85:19 87:3 98:11 139:10 140:17 153:7 154:15	ten 109:12,13	
suitable 126:28 127:1	system 28:26 30:4 31:9 32:19 33:12,15 39:4,6, 8,12 42:11 44:24 45:5 46:11,15,19,27 47:1,3, 14 48:17,21 49:12 52:20,21 58:17 59:5 60:15,26 61:21,22 62:20 63:28 64:6 66:1 67:26 70:17 73:21,23 74:28 75:16 88:3 94:8 102:21,28 126:24 127:1,26,28 128:1,3,18, 26 129:12 160:22 162:9,22,26 163:1,28 165:1,19	ten-page 115:19	
summertime 130:18, 24 131:2	systems 58:19 61:18, 27 62:3 155:23 160:14, 23	ten-year 135:25	
Sunrise 157:27 158:5		tend 63:24 118:10,13 120:7	
superior 18:20,28 19:9 90:14,18,23 91:3,4 92:25 96:9		tendered 8:7 13:19	
supervision 23:23 25:1 55:24 78:7 86:28 101:18 140:21 154:19		tentatively 168:6	
		term 39:10	

144:9 146:18,19,27 147:8,13,15,24 148:3,5, 14,16 149:6,7,14,15,19, 20,22 150:9,10,13,15, 17,18 151:27 152:11,27 153:18,23,25 154:3,8, 12,15,16 156:19 157:7, 13,14,17	title 57:2 169:24	161:11 168:22	unavoidable 93:12
tests 165:10	titled 155:20	transmittal 13:17	under-built 64:27
text 47:10 48:6 160:7	today 13:3 50:17,19,22 53:11,16 155:16	transmitting 80:6	undergraduate 116:23
themes 91:13	toling 135:26 136:18, 19,20	transposing 82:5	underground 58:22 59:1 96:16,17 155:23 157:26 159:21 160:10 161:11
theoretical 58:5	tool 56:25	trapezoidal 164:19	undergrounding 91:2
thermal 165:6,11,18, 23,25	top 60:20 66:20 122:14 164:6 167:15	trauma 74:5	undermining 121:15 124:7
thermomechanical 166:1 168:20,28	top-right 104:15	traverse 166:13	underneath 164:2
things 18:14 93:25 94:9 119:5 149:27 151:19 155:16 164:25 169:8	topic 17:8 68:12	treat 169:15	understand 21:26 35:21 46:7,24,28 47:2 65:18 81:14 90:11,28 96:7,12 101:27 103:14 105:9 113:9 127:15 130:13 136:23 137:20 140:26 144:23 146:1 162:24 168:28
thinking 20:14	total 30:15 47:23 65:4 76:2 106:23	treated 169:16	understanding 8:28 9:21 26:16 31:7,16,19 43:6,7 53:6 67:24 79:20 85:1 157:28
Thompson 96:1 146:23 148:14 151:3	touch 15:6	treatment 15:12,24	understood 10:26 48:15 157:21
Thompson's 146:19 147:24 148:3,16 150:15	town 148:10	trench 162:16 163:14	undertaken 168:12
thought 93:15,19 149:2	TPP 39:28 40:2,5,11,13	TRTP 155:6 159:17 160:11 163:11 166:15 168:25	unemployment 145:17,18
three-page 41:15	track 9:25 19:4	true 23:15 24:20 56:2 78:4,13 87:6,26 102:27 109:18 140:13 161:12	unique 161:13,15,19
thrive 46:16	tract 143:20	turbine 88:9	unit 75:11,12 79:21 89:5,6,7
tie 31:14 32:3 75:5	trained 167:7	turn 48:5 102:4 103:15 105:27 106:6 107:3,13, 22 108:12 109:1 116:13 117:7 121:22 122:12 129:24 133:21 156:16 158:15 159:7 161:26 164:20 168:5 169:22	units 59:13,25 75:7,15 87:24 88:1,15 93:4 132:6
ties 59:6 70:18	transcript 13:25 17:9 56:26 100:14	two-page 12:17	University 30:13 60:23 61:4
tight 35:1	transfer 30:5,25 31:4, 11,18,22 32:22,28 33:5, 8,22,24 48:20 49:8,12 60:27 62:1	two-thirds 106:22	unlike 96:9
tightness 35:28	transferred 30:15 60:22	twofold 129:5	unplanned 120:12
Tilden 21:16	transformer 32:21,23 38:14,21 39:5 51:26 53:14	type 40:19 52:16 105:15,18,26	unseal 17:9
time 7:14 16:9 17:26 31:24 32:8 42:15 45:2 58:14 59:26 65:20 66:4 68:3 74:26 76:2 80:18 90:2,16 98:27 99:28 100:4 106:5 107:12 108:9 110:18 124:5 127:27 128:1,2,3,17 141:6 149:13 160:13	transformers 34:14 48:19,26,27 49:1,3 50:23 52:1 53:2 57:27 58:4 120:16,22 121:8	types 160:22	unspoken 22:2
times 166:2	transmission 19:25 20:9 22:25 24:3 26:1 39:15,23,27 40:6,14 59:2,21 61:10 62:20 63:28 64:6,12,24,26,27, 28 69:17 71:7,26 73:22 75:3,28 94:3,13 102:22, 23 103:1 110:3 126:21, 26 127:4 128:23 137:9, 11,19 139:27 147:5 153:27 155:7,23 157:9, 16 158:10 159:18	typo 55:10	unusual 16:7
timing 46:10,14 127:26			update 123:15
		U	updated 103:23 105:21
		U.S. 68:27 87:26	
		U338-e 153:24	
		Uh-huh 141:21	
		umentcontentId= 28765 99:15	
		unable 75:15	
		unavailable 58:5	

updates 122:7	VI-2 156:21,25	Western 74:13	YACKNIN 7:3,7,25,27
upgraded 58:18	VI-3 156:22 159:9 160:3	westernmost 166:23	8:2,15 9:13 10:2,8,15,
upgrading 73:13	VII 140:4,16	whatsoever 142:10	22 11:4,6,21,28 12:5,
urban 68:14,26 70:14 73:24 142:6,9	vista 28:26 29:1 32:21, 23 33:5,9,14 34:6,7,28 35:2,28 42:10,14 43:14 44:2,23 46:19 47:12,17, 23,24 48:3,10,11,19,26 50:23 51:16,27 52:16, 28 57:26 58:4,11 59:6 61:2,3,21 64:19 65:23 67:11,28 70:20 72:6 74:16 120:11,16,23 121:4,8 129:15,17,21 135:9,15,18	whether-adjusted 111:27 112:9	13,16 13:16 14:26 15:23,28 16:2,6,21 17:1,24 18:9,13 19:22 20:10 21:5,15,26 22:8 23:8 25:7,18 27:9,21,25 28:2,5 29:26 36:19,22 37:7,14,19 40:5 41:10, 13 45:11,14,17,20,24 50:28 52:6 53:21,24 54:3,5,10,15 56:12 57:19 62:13,16,25 63:4, 11 66:7 67:20 71:1,3,9, 17,21 72:26 73:1 76:13, 25 77:1,5 78:23 79:3,8 81:9,17 82:1,19 83:4,16 84:4,16 85:5,8,10,15, 17,22,27 87:16,19 89:10,14,22 90:3,9,19 91:9,19,24 92:2,9,15 93:27 94:18,26 95:13, 24 96:21 97:1,8,16 98:4,14 99:11 100:11, 13 101:5,22 104:2,6,18, 23 106:20,26 110:22 112:15,26 113:1,5 114:1,4,11,14,17 115:6, 10,19 119:2 120:25 124:12 134:8 135:21,28 136:4,8 137:26 138:4,9, 11,17,20,26 139:1,4,12 140:26 141:3 145:7,13 147:7,11 148:17 150:27 151:6 152:23,26 153:2, 10 154:24 155:27 156:9 157:1,3 159:28 160:4 162:3
URL 99:8,9		white 161:1,3	
utilities 17:22 36:8 122:27 124:11 125:5,8, 11,16		Whitman 116:23	
utility 70:25 103:12 117:4 122:17 123:2,3 130:28		wholesale 25:28	
		wide 49:23 58:26	
V		wilderness 59:8	
		wildfire 96:11,13,23	
V-A-Z-Q-U-E-Z 153:13	Vista's 60:20	wildlife 59:8 141:27	
validate 157:21	Vista-la 75:3	witness's 15:19 83:5 124:1	
validating 158:13	Vista-specific 42:4	witnesses 10:23 16:13 25:8 53:28 57:4 89:24 92:5 95:25 145:7	
validation 105:6	visual 148:10 149:23	word 81:5 99:25,26 100:2,5 131:28	
Valley 21:17 74:8 95:26 97:10 140:28 141:1 146:15 149:24 150:7,12	visually 100:20	words 24:13 127:21	
Valley's 146:24	volt 32:19 33:26	work 10:21 15:3 33:15 73:7 74:21 99:6 129:27 132:6 160:6 168:25	
values 147:27 148:2,4, 6,8,23 149:9,10,18,21	voltage 161:12,16	worked 117:3 142:24	
variety 158:14	W	working 74:19 77:6 169:11	
vault 158:28 167:11,20	W-A-Y-N-E 57:16	workpapers 8:22 9:14, 20,25 10:19 11:11,24 12:6,23	
vaults 165:1 166:16 167:3,4,7	wait 115:7	world 159:13 160:14	
Vazquez 153:6,7,12,16 154:21,28 156:18 157:7 160:6 168:14	waiting 8:3	write 134:7 159:27	year 83:15
verified 30:22	waived 92:15 95:24	Writing 76:4	years 39:18 58:7 120:13 142:14,16,23
version 12:28 13:10, 12,24 29:24 55:11 105:20 141:7	wall 158:25	written 7:21 159:16	yellow 159:5
versions 8:20 22:27 24:4 140:1 154:1	wanted 19:3 25:12 28:12 145:5 157:20 163:9	X	yesterday 13:15 115:4
versus 18:20 42:2 44:16 46:12,15 63:23 83:24	waste 143:16	XLPE 160:12,18,19,24 161:3	young 88:27
vertical 66:11	wastewater 74:8	Y	
VI 154:2,14,17	water 74:7,11,12,13	Y-AXIS 66:16	
	wave 120:7		
	website 103:19,20 104:1 105:5		
	week 75:9		
	weeks 76:7		
	weight 166:27		