

ORIGINAL

1
2 UNITED STATES OF AMERICA
3 NUCLEAR REGULATORY COMMISSION
4
5

6 In the Matter of:
7

8
9 DISCUSSION/POSSIBLE VOTE ON FULL POWER OPERATING
10 LICENSE FOR DIABLO CANYON
11

12
13
14 OPEN MEETING
15
16
17
18
19
20
21
22
23

24 Location: Washington, D.C.

Pages: 1 - 195

25 Date: Thursday, August 2, 1984

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION
3 DISCUSSION/POSSIBLE VOTE ON FULL POWER OPERATIONS
4 FOR DIABLO CANYON
5 OPEN MEETING

6 Nuclear Regulatory Commission
7 1717 H Street, N.W.
8 Room 1130
9 Washington, D.C.

10 August 2, 1984

11 The Commission met, pursuant to notice, at
12 10:00 a.m.

13 COMMISSIONERS PRESENT:

14 NUNZIO PALLADINO, Chairman of the Commission
15 THOMAS ROBERTS, Commissioner
16 JAMES ASSELSTINE, Commissioner
17 FREDERICK BERNTHAL, Commissioner
18 LANDO W. ZECH, JR., Commissioner

19 STAFF AND PRESENTERS SEATED AT COMMISSION TABLE:

20 S. Chilk, Secretary
21 H. Plaine, General Counsel
22 H. Denton
23 T. Bishop
24 J. Martin
25 D. Eisenhut
E. Sullivan
R. Vollmer
K. Manoly
W. Dircks
B. Saffell
I. Yin
B. Bosnak
F. Knight
S. Trubatch
J. Zerbe
R. Smith
G. Messenger

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

DISCLAIMER

This is an unofficial transcript of a meeting of the United States Nuclear Regulatory Commission held on August 2, 1984 in the Commission office at 1717 H. Street, N.W., Washington, D.C. The meeting was open to public attendance and observation. This transcript has not been reviewed, corrected, or edited, and it may contain inaccuracies.

The transcript is intended solely for general informational purposes. As provided by 10 CFR 9.103, it is not part of the formal or informal record of decision of the matters discussed. Expressions of opinion in this transcript do not necessarily reflect the final determinations or beliefs. No pleading or other paper may be filed with the Commission in any proceeding as the result of or addressed to any statement or argument contained herein, except as the Commission may authorize.*

* The Commission has authorized the use of this transcript for citations by the Parties as noted in the discussion on pages 157-158.

PROCEEDINGS

1
2 CHAIRMAN PALLADINO: Good morning, ladies and
3 gentlemen. The purpose of this morning's meeting is to
4 consider the question of whether or not to authorize
5 the issuance of a full power amendment to the Diablo
6 Canyon plant Unit 1.

7 I believe that the Commission has two broad issues
8 to address today. First, does the Commission have the
9 information it needs to make a full power decision?

10 If not, we need to identify what more is needed.
11 Second, if sufficient information is at hand, should
12 power ascension and operation up to full power be
13 approved?

14 The NRC staff is prepared to provide a briefing on
15 outstanding full power issues. Mr. Isa Yin
16 is present to provide his comments on piping and
17 support issues.

18 Also present is Mr. Jesse Ebersole, Chairman of
19 the Advisory Committee on Reactor Safeguards, who can
20 respond to commissioner questions about the ACRS review
21 of those issues.

22 Following these items, the director of the Office
23 of Inspector and Auditor is available to provide a summary
24 of his report of investigation into allegations
25 relating to the conduct of NRC personnel involved with

1 Diablo Canyon.

2 Thereafter, I propose to have the Commission raise
3 any questions not covered as part of the briefing and
4 related discussion.

5 I will then ask the Commission to address the two
6 broad issues identified earlier and to vote on those
7 issues.

8 I propose to call for a recess immediately prior to
9 any votes so the commissioners can reflect on any
10 material that has been presented this morning.

11 Do other commissioners have opening remarks at this
12 time?

13 COMMISSIONER ASSELSTINE: No.

14 CHAIRMAN PALLADINO: All right. Then I propose to
15 turn the meeting over to Mr. Harold Denton.

16 MR. DENTON: Thank you, Mr. Chairman. We propose
17 today to cover four broad areas. It's been roughly 20
18 months since the Commission decided how to approach the
19 issuance that led to the suspension of the low power
20 license.

21 We provided Supplement Number 24 to the Commission
22 that dealt with the so-called Independent Design
23 Verification Program.

24 That safety evaluation report completes the review
25 of that program as defined by the Commission.

1 Just to refresh your memory on that, that program
2 led to the expenditure of about 1,500 man years by the
3 company in reviewing the seismic design of the
4 plant, about 150 man years of effort by the contractor
5 that we approved, Teledyne, to review the adequacy of
6 the company's efforts, and 15 man years by the staff in
7 reviewing both Teledyne and the company's efforts.
8 That's Supplement Number 24.

9 Supplement Number 25 deals with the issues of small
10 bore piping that became the focus of attention during
11 the low power licensing.

12 There is a difference of opinion among the
13 technical staff members regarding certain aspects of
14 piping.

15 We took that difference of opinion very seriously,
16 appointed a very well-qualified peer panel, and we're
17 prepared today to tell you how we attempted to resolve
18 that issue.

19 I think I have to tell you also that that
20 difference of opinion still exists, but because it did
21 exist, I recommended that we request the ACRS to review
22 the matter, and you did request the ACRS to provide
23 their opinion.

24 They have provided you their opinion on that
25 matter, and as you mentioned, the Chairman of the ACRS

1 is here today. Supplement Number 26 deals with
2 allegations.

3 During this period, we've received approximately
4 1,400 allegations by the way we count. We have
5 reviewed in detail all those allegations which meet the
6 criteria that we gave in an earlier SER, that is, did
7 they have technical safety significance where they
8 impinge upon management matters.

9 Of those 1,400, we have reviewed about half of
10 them. We've completely resolved all those that met our
11 criteria at our satisfaction.

12 Lastly, in amendment number 27, we provided you a proposed
13 full power license that in our view represents all
14 those commitments and conditions required to issue a
15 license for power ascension to full power.

16 We have today a number of staff members who
17 participated in this extraordinary effort. We have a
18 lot of consultants here at the same time.

19 We propose to summarize these SERs and respond to
20 any questions you might have.

21 Let me turn first to Darrell Eisenhut, who will
22 begin the presentation.

23 MR. EISENHUT: Thank you. If I could have slide
24 number one, please. The page labeled slide number one,
25 there is basically one new piece of information that

1 I'd like to highlight to the Commission.

2 That is the last subject relating to emergency
3 preparedness. I believe the other information on the
4 slide is similar to previous briefings of the
5 Commission.

6 On July 11, 1984, we received a letter from FEMA.
7 It contained the interim findings on the State of
8 California Emergency Response Plan for Diablo Canyon.

9 That letter concluded that those interim findings
10 of July 11 plus the previous FEMA findings and report
11 on off-site emergency preparedness at Diablo Canyon,
12 which I believe is dated sometime in April, 1984.

13 The concluded that the emergency preparedness
14 situation meets the requirements in all aspects that
15 are required prior to a full power licensing decision,
16 and that it was consistent with the ASLB initial
17 decision findings of August 1982, and that issue was
18 concluded to be completely satisfied.

19 CHAIRMAN PALLADINO: When was the last exercise
20 conducted on this plant?

21 MR. EISENHUT: The last exercise was conducted, I
22 believe, in October 1983.

23 CHAIRMAN PALLADINO: '83?

24 MR. EISENHUT: Yes.

25 CHAIRMAN PALLADINO: What was it?

1 MR. MARTIN: It was October 19, 1983.

2 CHAIRMAN PALLADINO: '82.

3 MR. MARTIN: '83.

4 CHAIRMAN PALLADINO: '83. Okay. Thank you.

5 COMMISSIONER ASSELSTINE: Were any significant
6 deficiencies identified in the exercise?

7 MR. EISENHUT: Not that I recall. The matters that
8 were as follow-up items were all resolved in this
9 latest finding.

10 CHAIRMAN PALLADINO: Were they not discussed in one
11 of the April letters? I think they were.

12 MR. EISENHUT: They were discussed in the April 12,
13 1984 transmittal from FEMA to the NRC. And that was
14 provided and sent down to the Commission.

15 CHAIRMAN PALLADINO: Yes.

16 MR. EISENHUT: If I could have the next slide,
17 please?

18 CHAIRMAN PALLADINO: Did you have more?

19 COMMISSIONER ASSELSTINE: No.

20 MR. EISENHUT: This slide summarizes the background
21 and chronology, at least the high points of it, over
22 the last couple of years. I won't go through in detail
23 what this slide does, as it highlights, as you recall,
24 the lower power Commission briefing of September 21,
25 1981, and the low power license was issued September
22, 1981.

1 I believe this was the last plant that was reviewed
2 under the previous approach of the Commission reviewing
3 low power authorizations. There was an order issued in
4 November 1981. The Commission, as Mr. Denton mentioned,
5 adopted a three-step approach to approving the
6 licensing process. In April of 1984, the full
7 reinstatement of the suspended license was issued by
8 the Commission. The plant has since gone through
9 initial criticality, gone through low power testing.
10 The plant, as of actually late last night, was in hot
11 standby, which is Mode 3. The diesel generator,
12 although not being on the turning gear, they project
13 that they can be in Mode 2 within about eight hours.

14 They were correcting a minor leakage from a seal
15 oil leakage. I don't know whether it was--I think it
16 was a valve or something connected with the turbine
17 generator.

18 The reactor is at present in Mode 3 at operating
19 temperature and pressure.

20 If I could have the next slide? Since we have had
21 numerous meetings with the Commission and since we have
22 gone through a wide variety of subjects on this plant,
23 we propose today to highlight those areas and touch
24 upon those areas that the Commission has identified
25 based on previous discussions and previous meetings.

1 They are listed on this slide, and I propose
2 walking through those rather briefly in some cases.

3 If I could go to the next slide, which is slide
4 four, this slide summarizes the present situation with
5 respect to the IDVP, an internal technical program of
6 PG&E.

7 As you will recall, there were four issues that
8 were deferred past the 5% phase that had to be resolved
9 prior to full power.

10 Those four full power issues have been resolved to
11 the staff's satisfaction, and are reported and
12 discussed in Supplemental Safety Evaluation Number 24.

13 We believe that those are, in fact, resolved fully
14 to the staff's satisfaction at this time.

15 The next issue I'd like to address, and the next
16 slide, relates to shift advisors. Recall that in a
17 couple of previous Commission meetings, we discussed
18 the approach to be taken with respect to demonstrating
19 the qualifications of shift advisors.

20 We had a two-pronged attack on the issue. First,
21 the industry sent a review group in that did a review
22 of the shift advisor program.

23 And secondly, the staff went in and did a review of
24 the program also. Those two reports, there is a report
25 from the industry and there is a report from the staff,

1 was previously submitted to the Commission in SECY
2 document 84-283, dated July 13, 1984.

3 The conclusions in those reports are that the
4 Diablo Canyon shift advisors fully meet the guidelines
5 of the industry, and we believe the program that has
6 been laid out is an adequate program for the training
7 and it has been accomplished. If I could now turn to
8 the subject of allegations.

9 CHAIRMAN PALLADINO: Are you satisfied that the
10 advisors are integrated into the shift activities?

11 MR. EISENHUT: Yes, sir, we are.

12 MR. DENTON: Let me ask Jack Martin if he'd like to
13 comment on that. He's looked into that area quite a
14 bit.

15 MR. MARTIN: No, I think we're satisfied with that,
16 pursuant to some plans I had and some discussions we
17 had at the last meeting.

18 During the low power testing, we had a team of
19 eight to ten people on-site essentially around the
20 clock for the first week or ten days of low power
21 testing, and for several days at a time thereafter, to
22 observe the interactions and the way things worked
23 during that test program.

24 And that was reported in an inspection report
25 that's part of the package in the black book. And the

1 conclusions were that they did well, and that the
2 interactions were proper.

3 We did find some room for improvement in some odds
4 and ends, but in general, it was quite good.

5 CHAIRMAN PALLADINO: Okay. Thank you.

6 MR. EISENHUT: I would like now to turn to the
7 figures in slide six. I understand yesterday we
8 provided to the Commission a cross-referenced
9 correlation of the technical substance of the
10 allegations that are listed in the left-hand column
11 here, allegations under investigation by OI, and a
12 cross-correlation of where those allegations are
13 addressed in the documents that we provided, namely,
14 the SSERs up through number 27.

15 With that, I'd like to turn it over to Jack Martin,
16 who will be summarizing the status of where we stand on
17 allegations.

18 MR. MARTIN: Well, the chart here is similar to
19 charts we've struggled through at previous meetings, so
20 I think one correction I would like to make, I think,
21 Mr. Hayes talked about the left-hand branch Monday,
22 where OI has been assigned 121 allegations, and they
23 resolved 22, and of the 99 left, they've concluded they
24 fall into the categories as shown. I believe those
25 were discussed Monday.

1 If we go over to the part done by both NRR and the
2 Region, I do have a correction.

3 On this chart when we made it up, we only listed as
4 resolved those items that had not only been resolved,
5 but written up and published.

6 Now I think it would be fair to say that there is
7 another 300 or so that we've drawn our conclusions on
8 and are in the process of documenting it since this
9 chart was printed and in the next few days.

10 So we're prepared to speak to conclusions on some
11 900 allegations being resolved, and some 400 in the
12 nonresolved column.

13 But to be rigorous, I just listed the ones that had
14 resolved as having been written up and in public
15 record.

16 MR. DENTON: As an example of that, we counted,
17 Jack. There are about 185 that are listed in the not-
18 resolved issue, which are really those small bore
19 piping issues that we consider resolved but have not
20 yet formally transmitted and have a sheet on each
21 allegation.

22 MR. MARTIN: Yes.

23 MR. DENTON: So you'll be hearing in the
24 presentation follow-up on small bore piping. If you
25 agree with the issue there, it would resolve another

1 185 of them once it's formalized.

2 COMMISSIONER BERNTHAL: I think it would be good.
3 This is one good case that you've mentioned, Harold,
4 but I think it would be good if you could perhaps give
5 us at least a couple more concrete examples.

6 To the outside observer, seeing 724 allegations as
7 not being resolved, one would suspect that even
8 statistically one or two might drop into the adjacent
9 bins there of requiring resolution before full power.

10 Can you give us some sense of how it is you arrive
11 at the conclusion that none of those 724 impact full
12 power operation, perhaps with some concrete examples?

13 CHAIRMAN PALLADINO: That's a question I had here
14 ready to ask, also.

15 MR. DENTON: They were all compared to the criteria
16 in SER Number 22, I believe, in which the Commission
17 seemed to agree with the criteria about which we'd sort
18 them.

19 So all that met the criteria that required sorting
20 are over in that side.

21 And by resolve, that means Jack has a piece of
22 paper written down that issue, but for other examples
23 beyond 185, I'll ask Region.

24 MR. MARTIN: I think that's right, that each and
25 every one of these, of course, has been reviewed and

1 screened against the criteria that we discussed at the
2 last couple of meetings.

3 That's where the categorization of either requiring
4 resolution or not requiring resolution was decided.

5 Now whether we consider them resolved or not, as to
6 whether we've completed all of our investigation and
7 actually written it up and published it, now, I think
8 it would be worthwhile categorizing--why don't we talk
9 about, Tom, some of the items that are in the not-
10 resolved category and give some examples, like
11 Harold did.

12 MR. BISHOP: I'd be happy to. In terms of
13 perspective, I think it's useful to understand that a
14 lot of the allegations are duplicates.

15 Some allegations we received four times. We tried
16 to sort that out so that we prevented unnecessary
17 duplication.

18 However, sometimes it was stated somewhat
19 differently, and consequently, the numbers became very
20 large.

21 CHAIRMAN PALLADINO: Tom, are you saying that if an
22 item was alleged four times, that counts four out of
23 the number?

24 MR. BISHOP: In some cases. Where we could, Mr.
25 Chairman, we tried to recognize the fact that it was an

1 exact duplication, and we did not put it in.

2 For example, there's one transcript that we
3 received anonymously early on. We received it, then
4 from the joint interveners, we received the same
5 transcript, then from GAP, with a name on it.

6 And then we received it again just last week, the
7 identical transcript, which contained a number of
8 allegations.

9 But to answer your question on where we stand, on
10 the open items, again, for perspective, I think it's
11 important to look at what we know about each individual
12 alleged's allegations.

13 We have a total of, I believe, it's 59 known
14 allegation sources, and quite a number well, a number
15 of anonymous allegation sources.

16 So we have something in the order of 70 to 80
17 sources. The bulk of the allegations, almost 75% of
18 them, come from 10 to 14 individuals.

19 And of those people, we have a good deal of
20 knowledge about their technical issues, we've
21 looked at some percentage of each of their work.

22 The items that we now consider resolved that are
23 not reflected on the chart and boost that number from
24 559 up to around 900, include, as Mr. Denton said, a
25 large number of small bore and design-related

1 allegations, a large number of anchor bolting-related
2 allegations, and a large number of allegations related
3 to welding practices and specific statements of
4 inadequate welds.

5 CHAIRMAN PALLADINO: How would you address the
6 problem, or how did you address the problem of an
7 allegation on inadequate welds?

8 MR. BISHOP: Where it was specific and met our
9 criteria, we went out and inspected that weld. You may
10 recall we discussed in a previous--or it was
11 discussed in a previous Commission meeting, that in one
12 case we invited the allegeders to come on-site with us
13 and specifically point to welds which in their
14 perception were not acceptable, and we reported on
15 those also, that we found that indeed those welds were
16 either in accordance with design or that seemingly
17 unsatisfactory appearance of the welds had been
18 technically addressed by the utility in a responsible
19 manner before we had gone out on that tour.

20 COMMISSIONER ASSELSTINE: Tom, are there any like
21 that, though, in this group of 400, where you haven't
22 finished your review yet?

23 MR. BISHOP: Yes. I can ...

24 COMMISSIONER ASSELSTINE: What's the basis for
25 assuring yourselves that those don't impact on full

1 power operations?

2 MR. BISHOP: Well, I would say when we include the
3 400, it doesn't mean that we haven't done any work on
4 them.

5 For example, there's, I believe, it's allegation
6 990 gives a particular weld in a particular line that
7 they say is deficient.

8 We've gone out and taken a look at that weld,
9 compared it to the drawing and looked at appropriate
10 records.

11 After we get through looking at all the records, we
12 would close it out. But we have enough knowledge in that
13 particular case to know that it's not a concern.

14 MR. DENTON: Tom, if I could just make a point,
15 very few of the ones which we have managed to complete
16 out of the 800 or so, have required any changes.

17 So I think that's part of the background you need
18 to keep in mind also, that the number of changes which
19 have occurred in this plant, as a result of our pursuit
20 of all these allegations, can be counted on one hand.

21 COMMISSIONER BERNTHAL: How many changes...

22 MR. DENTON: A very handful of actual changes in
23 the plant.

24 COMMISSIONER BERNTHAL: How many of the changes
25 that were required would you say have been significant,

1 on safety significant--I'll leave the adjective or noun
2 to you--when you say you've required a few changes
3 based on them.

4 Can you describe the nature of the changes, their
5 importance to safety, in your judgment?

6 MR. DENTON: I think when you hear on the small
7 bore piping there have been a few hangers which were
8 modified as a result of reanalysis of all hangers.

9 If I might, I would defer to that group to describe
10 their safety-significance, but I think throughout these
11 allegations, there's only a few things which resulted
12 in a physical change.

13 MR. MARTIN: I think I would characterize the
14 ones in the construction area as not being very
15 significant.

16 In fact, in one of the replies to an inquiry that
17 went through the Commission, I think to one of the
18 congressmen, a few weeks back, the question was raised,
19 how many changes had been required to the plant as a
20 result of all this.

21 And we listed four items. My recollection is that
22 most of them were ones it's not clear that they really
23 needed to be made, that the company elected to do it
24 anyway.

25 For example, there was one where some bolts, 325

1 bolts, it's a material type, were welded, and there was
2 a conflict over whether you can really weld those bolts
3 or not.

4 And so the company did a qualification program that
5 provided reasonable assurance they would have been all
6 right, but it wasn't strictly in compliance with the
7 code, so they took them all off.

8 They didn't take them off; they altered the
9 installation to not use the bolts.

10 There was another case where there was a length of
11 cable was in question as to whether we really had all
12 the certifications for it.

13 There was pretty strong circumstantial evidence
14 that it was probably all right, but they elected to
15 replace it anyway.

16 It was those sorts of things. There wasn't
17 anything yet where anybody has gone and put their
18 finger on something that when looked at, is clearly out
19 of line.

20 MR. DENTON: I think what we looked for were
21 generic breakdowns, and they haven't been found. Another
22 example, I remember, is additional relay involved in
23 controlling the RHR system from the remote shutdown
24 panel, a specific issue.

25 After some debate about it, the company decided to

1 add additional relay and made that problem go away. So
2 that's, I think, these accurately characterize the
3 level of changes which have occurred as a result of our
4 pursuit of the allegations.

5 COMMISSIONER BERNTHAL: So how many of the
6 allegations, then, would you characterize that you've
7 dealt with specifically address hardware issues that
8 you had to follow up on at some level or another, a
9 rough number?

10 MR. MARTIN: Very few. Ten percent.

11 COMMISSIONER BERNTHAL: No, no, I don't mean the
12 ones that you--I see. You're saying of all the
13 allegations, whatever the total number is now, 1,400 or
14 whatever it might be, 10% of those specifically address
15 hardware?

16 MR. MARTIN: I'd say that's conservative. We've
17 repeatedly asked people, "Look, step forward and show
18 us. You know, put your finger on where it is."

19 And where that's been done, we've taken one plant
20 tour and of all the items--we talked about that at the
21 last meeting, the items pointed out, none of them
22 turned out to be technical problems, nor did they turn
23 out to be violations of anything, either.

24 So I would say certainly 10% or less of the
25 allegations involve specific complaints about hardware.

Now many of the allegations, interestingly enough,

1 that's why I hesitate to say whether allegers are right
2 or wrong.

3 In many cases, they're right, absolutely right,
4 where a man complains this weld is on the left instead
5 of the right.

6 We go look, and yes, it's on the left, but when you
7 look at the drawing, it's supposed to be on the left,
8 and it's a non-problem.

9 MR. DENTON: Another case where many of them were
10 right was in the small bore piping area. We did
11 conclude that the on-site engineering group had
12 exceeded its boundaries in making the changes in small
13 bore piping.

14 So we had the company go back and reanalyze all the
15 supports which had been designed by the small bore
16 group.

17 In spite of the fact that they had exceeded their
18 procedural bounds, very few changes had to be made in
19 their hangers.

20 But there were a few hangers in which they had to
21 do so.

22 COMMISSIONER BERNTHAL: So out of 100, 150,
23 whatever the number might be, that specifically were
24 hardware issues, action was taken on what number?

25 You found action to be required on what number? Ten?

1 Twelve? Twenty?

2 MR. DENTON: Less than ten.

3 COMMISSIONER BERNTHAL: Less than ten.

4 MR. BISHOP: I think in most cases where action was
5 taken, it was not as a result of a hardware allegation;
6 it was more of a result of the staff going in and have
7 to exclude the designer on this.

8 But the staff going in and looking at the broader
9 area and in that analysis of the broader area, it might
10 not have been the specific allegation that caused the
11 change.

12 It was more a look at the broad area that caused
13 that. I wanted to also mention, so that you're not
14 misled, that while there weren't that many allegations
15 that specifically identified an individual discrepant
16 piece of hardware, there were quite a number that
17 talked about perceived weaknesses or failures in the
18 systems that directly affect hardware, welding
19 procedures, weld inspection, inspector training, welder
20 qualification, and, of course, we looked at that, and
21 we also included a very large sampling, something that
22 the NRC hasn't done in the percentages, in any other
23 facility that I'm aware of, in terms of looking at
24 hardware samples related to those issues.

25 And we did that really for two reasons, because

1 they were continuing to make modifications, plus
2 because we had allegations in the area.

3 But we did look at significant hardware samples.

4 MR. MARTIN: Yes. I'd like to emphasize that.
5 I've said this in previous meetings, but when we look
6 into these allegations, we not only look into the
7 specific is the complaint literally true or not, but
8 also we've looked into the circumstances surrounding
9 it, like did the company involved handle it
10 responsibly?

11 And a lot of allegations turn out to be wrong,
12 maybe through no conscious effort on the part of the
13 company. They just lucked out.

14 And so we've looked at both aspects of this, and
15 typically, like the plant tour, for example, there were
16 a number of the seven items pointed out, many on the
17 surface would look suspicious.

18 But when we looked into them, we found out that
19 they were not violations of codes and standards, and
20 furthermore the company had already taken some
21 responsible action to deal with the complaint, prior to
22 us even getting there and looking at it.

23 So when we've consistently found that it's not a
24 technical problem, and also for the most part, the
25 company has previously behaved responsibly when

1 confronted with the thing.

2 That's provided a sort of a perspective from which
3 to judge things that are--we have yet to look into in
4 detail.

5 Another significant thing is, as Tom pointed out,
6 the bulk of the allegations, a 1,000 or so out of the
7 1,400 allegations, are by a dozen or so people.

8 So with each of these, we've looked into a
9 substantial number of complaints by people so that you
10 get a feeling as to how much weight to give things that
11 are being claimed.

12 If, for example, a man's alleged 200 things and
13 you've looked into 125 of them and none of them have
14 panned out, then I get a little less anxious about the
15 remainder.

16 CHAIRMAN PALLADINO: But nevertheless, you do
17 screen the remainder?

18 MR. MARTIN: Oh, yes, sir. And we will go through
19 them in due time. The other thing I think's important,
20 as far as I know, we've never done elsewhere in the
21 region and maybe not in any region, is sometime back, I
22 anticipated that we would have questions where we would
23 need to do this, so I hired Lawrence Livermore
24 Laboratory, and over the months, they've been looking
25 at pipe supports and raceways and structural steel.

1 And I handed out a chart at a meeting three or four
2 months ago, which summarized what they'd done to date,
3 and I have an update of that, where we've looked in
4 detail at hundreds of pipe supports, hundreds of steel
5 connections, raceway supports, to get an independent,
6 independent of all these allegations and everything, of
7 just what is the quality of the plant.

8 While we're looking at allegations, these people
9 have been out checking things against the drawings.
10 For example, they've looked at over 500 pipe supports
11 of all sizes, 100 or so, 120 structural steel
12 connections, 300 or 400 raceways.

13 And we found a very low deficiency rate. I'd say
14 I've been struck by it's lower than we normally find.

15 And what I would do, Sam, is I could pass this
16 around. It's an update of a chart I gave the
17 Commission about two or three months ago.

18 I think it's an independent check, in addition to
19 looking into the allegations that forms a bit of
20 perspective that we've used in sorting these
21 categories.

22 I don't know if that's helpful.

23 CHAIRMAN PALLADINO: It could be helpful. I have
24 two questions on the same subject, if you're through on
25 this part of it.

1 MR. MARTIN: Yes.

2 COMMISSIONER ASSELSTINE: I have a couple more on
3 the right-hand side of the chart. Go ahead with yours.

4 CHAIRMAN PALLADINO: Okay. I was talking about
5 the left and the right, both.

6 COMMISSIONER ASSELSTINE: Why don't you go ahead?

7 CHAIRMAN PALLADINO: First of all, could the staff
8 explain with regard to not meeting resolution on
9 allegations prior to full power, with particular
10 reference to allegations involving intimidation and
11 harassment?

12 MR. MARTIN: Yes, I think I'd like to speak to
13 that, and I thought about this quite a bit. Recall, I
14 think, perhaps for Commissioner Zech's benefit, maybe
15 all of us, I'll back up a few steps and recall what we
16 said at the last couple of meetings and what we've
17 printed in SSER 21 and 22, that when we've looked at
18 these allegations, the staff has tried to penetrate not
19 only is it a technical problem but what are the broader
20 management questions surrounding this?

21 Is it reflective of irresponsible action, and that
22 just didn't turn out to be a technical problem, and
23 personally I'm more interested in the management part
24 of it than the technical details.

25 Well, when we got to the intimidation question, the

1 key thing that we've been struggling with and had in the
2 front of our mind all along is not so much whether
3 intimidation did or did not occur in the specific
4 cases.

5 I think we've said before the staff can't tell.
6 These are complicated. It's hard to tell who's
7 intimidating whom.

8 We'll have to wait for OI and the Department of
9 Labor to sort all that out. And we knew of at least
10 eight people who felt very strongly they'd been dealt
11 with improperly.

12 However, it's interesting to note that about 1,000
13 of these allegations out of the 1,400 are by the people
14 claiming they've been harassed.

15 So we've looked into very large numbers of
16 allegations by the technical aspects of them and the
17 management aspects of them by those same people who
18 allege they've been intimidated.

19 So I think we have a pretty strong understanding...

20 CHAIRMAN PALLADINO: You say you looked into that?
21 How? Could I get a feel for what you did?

22 MR. MARTIN: For example, what I'm saying is that
23 out of the 1,400 allegations, about 1,000 are by the
24 people who claim they've been intimidated.

25 Of that, we've looked in and resolved maybe two-

1 thirds of them.

2 CHAIRMAN PALLADINO: And the allegations include a
3 whole variety?

4 MR. MARTIN: Oh, yes, the whole variety of things,
5 and so we've looked into, from the standpoint, is
6 really three questions.

7 Is the allegation true? Does it represent
8 irresponsible conduct on the part of the company
9 involved?

10 And then thirdly, in the process, did the guy get
11 discriminated against? And we've answered the first
12 two questions.

13 And I think it's safe to say that in the vast
14 majority of the cases we've looked into, they have not
15 constituted technical problems.

16 Where the issue has been brought up to the company,
17 and in many cases they haven't, mostly they have, where
18 the companies had an opportunity to deal with the
19 issue, they've acted responsibly.

20 Now whether the man got discriminated against in
21 the process, I don't know. I don't hope to answer
22 that. That's Hayes' job.

23 But the pattern we set at the last meeting that we
24 do not see a pattern of purposeful intimidation, there
25 may have been cases, we don't know, but we do not see a

1 pattern. And certainly looking into the details of the
2 allegations, we do not see support for that.

3 Where given the opportunity, the companies seem to
4 operate responsibly, by and large.

5 So I think from our perspective--oh, the other
6 thing we did that isn't very scientific, but I like to
7 do it because maybe it's my own standard, is that we
8 had like 40 inspectors work on this thing.

9 And there in the beginning, I had each guy, during
10 the course of his inspection, interview ten people and
11 just try to get to the heart of the question.

12 Do you feel inhibited? Are you under pressure? Do
13 you feel that you're being leaned on?

14 It's not a very exact science, but you can get a
15 feel. In addition, people have been instructed, "Keep
16 your ears open, when you're in the lunch room or..."

17 CHAIRMAN PALLADINO: Did that inquiry ...

18 MR. MARTIN: To see how things are going, and we
19 just do not see a pattern of paranoia or people seem to
20 be reasonably open.

21 So it's not a discipline type of investigation, but
22 there are reasons why I think the staff would say,
23 those of us that have spent a lot of time at the site,
24 we don't see, certainly an intimidation to the point
25 where it's corrupted the QA system.

1 CHAIRMAN PALLADINO: But I gather, did the inquiry
2 turn up evidence of deep-seated feeling or harassment?

3 MR. MARTIN: No.

4 CHAIRMAN PALLADINO: Intimidation? Discrimination?

5 MR. MARTIN: Of course, this becomes a self-
6 fulfilling prophesy. It's been talked about so much,
7 and in the newspapers and claims and counterclaims, a
8 lot of people are aware of it.

9 And when you have a site, and 6,000 or 7,000 people
10 read about it in the papers and everything, many people
11 we talked to were aware that others were complaining
12 about this, or they'd heard that.

13 But out of the 250 or so people we talked to
14 directly, and the hundreds we've interacted with in
15 looking into these 900 or so allegations we've
16 resolved, we do not see a pattern or a chilling or a
17 corruption of the QA system.

18 Now there may well be a dozen or so people that got
19 leaned on, I just don't know. I don't hope to answer
20 that question.

21 CHAIRMAN PALLADINO: Well, the question related to
22 whether or not some of these matters needed to be
23 resolved before power ascension.

24 MR. MARTIN: Yes. I guess our bottom line is that
25 in talking with OI and based on our looking into

1 several hundred allegations by the people who feel they
2 were leaned on, we do not see an overall degradation of
3 the systems that we depend upon to ensure plant
4 quality.

5 That's, I think, the staff's conclusion, and I
6 think that's supported by all of the staff that's
7 looked into it.

8 MR. DENTON: I want to second Jack completely.
9 There have been several instances where the Department
10 of Labor has upheld charges of harassment.

11 So it has occurred in some cases. The question is,
12 is it pervasive? It does not appear to be, based on
13 what we have seen.

14 If you look behind, has this affected the quality
15 of the product in the plant itself, these allegations
16 do not--we've looked at so much information on this
17 plant, it does not appear that these cases where
18 intimidation did occur, is affecting the underlying
19 quality of the plant.

20 It might still be going on. There was a recent
21 case where it's being alleged. The company took a step
22 some time ago to produce a video tape by Mr. Maniatis,
23 which was shown to all employees, that deals with this
24 issue, and says that intimidation will not be
25 tolerated.

1 So I think the company has taken steps to recognize
2 that this practice should not occur, but whether it's
3 still going on, will have to await the results of these
4 ongoing OI investigations.

5 I guess that's a policy question for the
6 Commission, based on what we've looked at and the
7 screening of these 99 where OI hasn't been able to
8 complete its investigation, it does not appear to be a
9 pervasive pattern, nor does it appear to be affecting
10 the quality of the plant.

11 (Inaudible.) In this on-site engineering group
12 that I've discussed earlier, it was a source of a
13 number of problems where the group was not following
14 company procedures and QA procedures.

15 The responsibility for those activities was
16 transferred away from that group and back to
17 headquarters.

18 So it's under a controlled manner. So there is no
19 easy way to answer it. The facts are, DOL has found
20 it occurred.

21 You know the number of cases that it's occurred in
22 from the OI briefing. I think it's my view that it's
23 not affected the quality of the plant.

24 CHAIRMAN PALLADINO: I wonder, one other question.
25 I'd like to clear up my understanding on some numbers

1 you gave us.

2 You said not resolved was 724, and you said about
3 300 of these are being documented.

4 MR. MARTIN: Yes.

5 CHAIRMAN PALLADINO: So I guess it's roughly down
6 to 400. But Harold, then you spoke of another 185, and
7 I don't know if that's subtracted.

8 MR. MARTIN: What I was saying, the 300 or so that
9 we've drawn our conclusions, we just don't have the
10 written resolution yet.

11 About 250 are in Harold's area, and about 50 in
12 mine. And that's what his 180...

13 MR. DENTON: The 185 is...

14 CHAIRMAN PALLADINO: Is part of the 300.

15 MR. MARTIN: Yes, sir.

16 MR. DENTON: It's part of the 300. There's another
17 50 that's part of the 300 that are related to bolting
18 that we have resolved, and we have our consultant here
19 on bolting today if you want to get into those
20 allegations.

21 CHAIRMAN PALLADINO: I'm just trying to get a feel,
22 is the bottom line number, at least so far as the field
23 work or technical work is concerned, the numbers are
24 more like 400 rather than ...

25 MR. DENTON: In fact, probably even less than that.

1 It's hardly a moving target, Mr. Chairman.

2 CHAIRMAN PALLADINO: I'm trying to understand the
3 snapshot that is being given to us at this moment.

4 MR. MARTIN: I'm a little sensitive to this. We've
5 had previous discussions about drawing conclusions for
6 which we haven't written the reports yet, so...

7 CHAIRMAN PALLADINO: Commissioner Asselstine.

8 COMMISSIONER ASSELSTINE: Yes, I have a couple of
9 questions. Let me start with the left-hand side of the
10 chart.

11 Of the 250 people you talked with, apart from what
12 you described as they were aware of possible
13 intimidation of others, did any of the 250 tell you
14 that they were themselves aware of intimidation or felt
15 in any way inhibited by it?

16 MR. BISHOP: We discussed that in SSER 22, and I
17 think we've said that there were eight individuals that
18 felt that they had been intimidated and were provided
19 direct evidence of that.

20 As Mr. Martin said, there were several others who
21 said they had heard of intimidation. There were a few
22 others that felt that there was a problem.

23 They weren't willing to say this was intimidation,
24 but their position was not accepted and they were...

25 MR. MARTIN: I think the answer--we're getting a

1 little mixed up here. I think the eight people you're
2 talking about, Tom, are the eight that had formerly
3 made a complaint.

4 Now out of the 250 or so we talked to, it's my
5 recollection that none of them claimed they were
6 directly harassed or intimidated.

7 There were several who had heard about things going
8 on, or who were concerned there was a lot of pressure
9 to get the job done, but had not been personally
10 threatened or harassed.

11 I think that's a fair characterization, isn't it?

12 MR. BISHOP: Yes. I'm only waffling, because I
13 don't know if our 250 ..

14 MR. MARTIN: I don't believe so. Apart from those
15 eight that we wrote a whole paragraph on, the people we
16 interviewed, I think it would be safe to say, by and
17 large, most of them didn't see any problem.

18 There were some who had heard things and read it in
19 the paper. And there were others, when you asked the
20 question, "Is there too much pressure to get the job
21 done?" well, I feel that sometimes myself.

22 So I didn't classify that as--I was using sort of a
23 direct threat as the threshold, and we didn't see any
24 of that.

25 COMMISSIONER ASSELSTINE: You mentioned that for

1 900 or so allegations that you looked at, including
2 those that involved the intimidation question, you
3 looked at three things.

4 One, were they true? Two, did they constitute
5 technical problems. Then the third thing, which OI is
6 looking at, were they discriminated against in the case
7 of the intimidation allegations.

8 You mentioned that there were a number of
9 allegations that were true or the statements themselves
10 were correct, but when you went out and looked at the
11 item in the plant, that's the way the plant was supposed
12 to be designed.

13 MR. MARTIN: Yes, or some other twist to it.

14 COMMISSIONER ASSELSTINE: Well, that's what I
15 wanted to ask about was the other twist, which is, did
16 you go out and find allegations that were correct, but
17 because of safety margins in the plant or lack of
18 safety significance of the particular item of equipment
19 on which the allegation was made, there wasn't a
20 technical problem?

21 MR. MARTIN: No, not very many. And I think that's
22 what I found significant. I never expected this. Lots
23 of times when you look into things, you find it's not a
24 problem because there's so much margin in the system
25 when they go recalculate the whole thing, it comes out

1 right after all.

2 We didn't find much of that. What we found is that
3 the very large numbers of allegations, the allegor
4 wasn't exactly wrong.

5 For example, we had lots of them that had
6 statements like one that keeps coming up is, they
7 welded using the ASME code rather than the AWS code
8 which was specified.

9 Well, after researching all that, you find that the
10 AWS code allows you to use the ASME code because it's
11 more strict.

12 COMMISSIONER ROBERTS: Right. It's more stringent.

13 MR. MARTIN: And so that has repeatedly come up as
14 an issue.

15 And, of course, everybody's right. But it's a
16 happy conclusion and there was a lot of that. Or we
17 find problems that, for example, the weld's on the right
18 hand instead of the left hand, well, it's true, but
19 it's supposed to be that way.

20 Or when you go look at the details of how things
21 were disposed of or handled by engineering, the
22 complaint was handled following all the procedures and
23 in many cases the allegor just wasn't aware that the
24 thing had gone through that whole process.

25 And so by and large, what we find, in a very large

1 number of cases, that there's some basis to the
2 complaint, if you put yourself in the alleger's shoes,
3 which we try to do, and understand it from his
4 standpoint, you can see the point.

5 But then when you go and look at how the company
6 dealt with it, in most cases you find it had been dealt
7 with.

8 It isn't the sort of thing where there's no action
9 at all, and that the activity was a responsible
10 resolution.

11 In a few cases, we've found we didn't agree with
12 the resolution. There was a number of engineering
13 dispositions that we thought weren't really right, and
14 got those turned around.

15 But it had gone through the proper processes and I
16 think that's inevitable to find some things that we
17 don't agree with.

18 But we did not find very many things where you go
19 look and you find not only is the guy right, but it had
20 been mismanaged and mishandled and there were maybe
21 probably less than a dozen items like that, I'd say,
22 and most of them were not, at least in the construction
23 area, that I'm aware of, were not significant. Now,
24 Harold's area, I don't know that much about.

25 MR. DENTON: This issue will just have to be

1 continuously followed, and like an operating plant
2 allegations, come in the unresolved issues that are for
3 OI, will hav to be sure that each report that is made
4 available is followed up on promptly.

5 But I guess we have discussed with the Commission
6 on several occasions, do you use something like
7 criteria, or do you wait until the investigation of
8 the allegation is pursued?

9 We've done a lot of them and we wanted to report
10 what we have done.

11 COMMISSIONER ASSELSTINE: I think ...

12 CHAIRMAN PALLADINO: But they will be pursued.

13 MR. MARTIN: Yes, sir.

14 MR. DENTON: We'll continue to.

15 CHAIRMAN PALLADINO: Regardless of what happens.

16 MR. DIRCKS: I think we should emphasize that
17 point. We will follow up on these matters, and if
18 there are enforcement actions here, we will take
19 enforcement actions.

20 We're not saying, "Forget this." We are saying
21 we'll follow up on it and will pursue whatever
22 violations come up through the enforcement path.

23 COMMISSIONER BERNTHAL: Can I phrase the question?
24 I think Jim has one or two questions yet, but I want to
25 interrupt and get at this point of how exactly you're

1 handling and dealing with these things.

2 Is it fair to say, then, and perhaps I need to ask
3 Ben Hayes this question as well, but is it fair to say
4 that of all the allegations that you have in front of
5 you today, if this were an operating plant, none of
6 them fall into a category were, as has happened a time
7 or two in my short tenure here, you or perhaps other
8 members of our staff, would come rushing into the
9 chairman's office and say, "We've got a problem and we
10 need to meet on it."

11 Is that a fair representation of your current
12 evaluation? I realize that's what you're essentially
13 saying on paper here.

14 But I'd like to hear you comment on it.

15 MR. BISHOP: Before you answer, I would like to say
16 that we have to condition that with the body of
17 knowledge we have about this facility.

18 For example, if I received an allegation about a
19 specific weld or improper inspector qualification at an
20 operating facility, where I don't have that body of
21 knowledge that I have on Diablo, we would tend to react
22 immediately.

23 But in this case, we have a large body of knowledge
24 that we're using as a reference on what we do and what
25 we do not know.

1 And with that clarification, I would say yes, from
2 my perspective.

3 MR. DENTON: That's ...

4 COMMISSIONER BERNTHAL: That's on the hardware
5 side. Perhaps the left-hand side, as well, needs some
6 comment.

7 MR. DENTON: Well, I agree with Tom. Some of the
8 allegations are quite significant on first reading if
9 they were true.

10 And I think if we got those on operating plants, we
11 would immediately contact the resident of the region
12 and try to establish the validity of it.

13 So none of them based on our knowledge of them now
14 would prompt me to request a shutdown of an operating
15 plant, based on what we know.

16 That's on the right-hand part. On the left-hand
17 part, the statistics are still pretty small. There are
18 only a few cases where the Department of Labor has
19 upheld charges of harassment.

20 There are a few cases where they didn't. There
21 might be some pending. It looks like the company is
22 making every effort to be sure that harassment does not
23 occur.

24 I think they've taken some recent actions based on
25 the events of the past few weeks, and I would envision

1 that there are to be meetings between ourselves and
2 enforcement and the company to follow up, if there's
3 more that goes on.

4 But to look at what has gone on, it is not a big
5 pattern. But it's not, at the same time, there have
6 been some cases where it probably did go on and
7 appropriate actions should be taken.

8 I think our few cases DOL has upheld, a few cases
9 they have denied.

10 COMMISSIONER BERNTHAL: But the point is, then,
11 what you have before you and in your hands right now,
12 would not be the kind of thing that you would feel
13 would require you to take immediate measures if it were
14 an operating plant.

15 MR. DENTON: It does not appear to have affected
16 the quality of the reactor itself, and does not appear
17 to be pervasive.

18 CHAIRMAN PALLADINO: Jim?

19 COMMISSIONER ASSELSTINE: Just one more question on
20 the 400 or so items where you haven't finished your
21 review yet on the right-hand side.

22 Jack, you mentioned that one of the things that you
23 looked at is where you get a large number of
24 allegations from the same individual, some sense of how
25 accurate and reliable those have been.

1 I wonder if that has been part of your basis for
2 concluding that those 400 items, some of those 400
3 items that you haven't completed your review on yet,
4 don't necessarily impact on full power.

5 And the reason I ask the question, as I remember,
6 one of the first licensing cases that came before the
7 Commission after I joined the Commission, we received a
8 number of allegations from one individual, some of
9 which were accurate and identified technical concerns,
10 others of which there seemed no basis whatsoever.

11 MR. MARTIN: Yes.

12 COMMISSIONER ASSELSTINE: I wonder if that is part of
13 your thinking, how much weight you can give to it.

14 MR. DENTON: Let me start there, Commissioner.

15 COMMISSIONER ASSELSTINE: And I want to hear from
16 you, Harold, too.

17 MR. DENTON: But I don't think we want to get
18 pushed into saying that somewhere in the 1,400 you
19 won't find one that requires follow up.

20 What we are saying, we have applied the criteria
21 that we told the Commission we were going to apply, and
22 we're not, can't be prophets and say what's going to
23 come out as you look at the next 1,400, I mean in the
24 next 400.

25 But in looking, they didn't meet the criteria that

1 I felt the Commission had accepted last time, and if
2 you want absolute certainty that there is not going to
3 be one that on inspection does make a change, we
4 can't guarantee that. We can tell you what we have done
5 and what we haven't done, and the basis for it, but you
6 seem to want us to assure you that none of the other 1400..

7 COMMISSIONER ASSELSTINE: I'm not trying to push
8 you that way. What I'm trying to do is try to get a
9 sense for what information you used in applying this
10 criteria.

11 MR. MARTIN: Let me answer it this way. I guess I
12 like to deal in facts and issues, not personalities.

13 We've tried very hard here, and I think, as I've
14 said before, that the people making these allegations,
15 many of them seem to know what they're talking about.

16 They are reasonably informed. They're substantive
17 kinds of questions.

18 So that I have not discounted, if we've got 100
19 allegations from Mr. A., and 50 of them haven't panned
20 out, we have not discounted the rest because this
21 guy's a nut.

22 And anyway, what rather what I've done is looked at
23 them from the standpoint of on the surface of it, do
24 they pass the screening criteria.

25 Then secondly, if they're the same kinds of issues

1 that he's raised before, and the same general area, the
2 same organization, the same sorts of, like involving
3 welder qualification or something like that, that
4 inevitably has crept into the thinking that we have not
5 screened them on the basis that we've got a track
6 record on so-and-so because most of the allegations
7 we've received have not been frivolous at all.

8 And so I couldn't do that anyway. And I don't
9 believe we've done it, although there has been, for
10 example, many of the people have submitted, say, 100 or
11 more allegations, and if we've already looked in and
12 closed out 60% of them, and the remaining 40% are
13 similar to those we've already closed out, that
14 provides additional assurance or additional feeling that
15 there probably won't be anything there, but I still
16 think we have to continue to look into them.

17 COMMISSIONER ASSELSTINE: That's what I'm trying to
18 get a sense for, is what the bounds of the uncertainty
19 really are.

20 And I gather ...

21 MR. MARTIN: Less than it would appear on the
22 chart, is, I guess what I'm saying, but I don't know
23 how to quantify it exactly.

24 COMMISSIONER ASSELSTINE: I gather if you say you
25 have 100 allegations on welder qualifications, and

1 you've looked at 60 out of 100, you might well take
2 into account the fact that in looking at the 60 out of
3 100 in that particular area, you haven't found
4 anything...

5 MR. MARTIN: That's right.

6 COMMISSIONER ASSELSTINE: ...significant, saying,
7 well, we don't think there's a significant problem in
8 going ahead, prior to having looked at the other 40.
9 Would that be a fair statement?

10 MR. MARTIN: Yes. And I think what we've said
11 before is we've looked at enough of these in almost all
12 these areas to develop a sense that basic management
13 systems that you depend upon for quality, are working.

14 Now whether there have been lapses or specific
15 cases where it didn't work or not, there may be, and
16 some of these unresolved items may turn up some of
17 those, but we don't expect to see wholesale problems.

18 And we can speak with some authority, having looked
19 into large numbers of cases.

20 CHAIRMAN PALLADINO: Can I just follow up? Because
21 I had asked a similar question earlier, and I got an
22 answer that I want to make sure either I understood...

23 MR. MARTIN: I believe it was the same.

24 CHAIRMAN PALLADINO: ...or I could be corrected.
25 It was my impression that you said with regard to those

1 that you hadn't yet examined in detail, you did look at
2 them and go through the screening process.

3 MR. MARTIN: Yes.

4 CHAIRMAN PALLADINO: So that even if an individual
5 had given you 100 allegations and 50 of them you had
6 looked at in detail, you still looked at the other 50
7 to see if they passed the screening process.

8 MR. MARTIN: Yes, sir. So not only were they
9 screened, but in many cases, we have substantial
10 information already.

11 CHAIRMAN PALLADINO: Let me just follow up on one
12 more. If it didn't pass the screening, by that, I
13 mean, yes, there seem to be some technical issue, did
14 you follow up enough to know what the nature of that
15 technical issue was?

16 MR. MARTIN: Yes. And as a matter of fact, since
17 the last meeting, there was one of those that cropped
18 up in the bolting area, that just didn't pass.

19 And we've had to spend quite a bit of time getting
20 to the bottom of that. That's now considered resolved,
21 so that there were a dozen or so of those have come up
22 as we've gone through this process.

23 And we've outlined those as being items that have
24 to be dealt with and resolved before we can go ahead.

25 CHAIRMAN PALLADINO: Go ahead, Jim.

1 COMMISSIONER ASSELSTINE: Let's see. I think that
2 basically covers the question I had, although I think
3 Fred had one other that I think is worth asking and just
4 getting cleared up.

5 COMMISSIONER BERNTHAL: Harold, you've referred two
6 or three times to the guidelines and directives that
7 the Commission has laid out for your evaluation of
8 allegations.

9 I'm thinking that maybe for the public record, you
10 should tell us what you thought those directives and
11 guidelines were, just so I can see whether I still
12 agree with them.

13 CHAIRMAN PALLADINO: I don't think we develop them,
14 but I think the staff developed them and we okayed
15 them.

16 COMMISSIONER BERNTHAL: That's right, but I think
17 it would be good to state what you think they are for
18 the public record.

19 MR. DENTON: Tom Bishop has the SER that contains
20 them. Why don't you go through them, Tom.

21 MR. BISHOP: We've discussed this in previous
22 Commission meetings. I think that's what (inaudible)
23 and Harold were referring to.

24 They're contained in SSER 22, paragraph four, and
25 it goes on for two or three pages, giving the criteria

1 for those allegations on a precriticality decision and
2 then another set of discussion for exceeding 5%. Do
3 you want me to read those to you?

4 COMMISSIONER BERNTHAL: I think it would be good.
5 I don't suggest that you read two or three single-
6 spaced, typewritten pages.

7 (Simultaneous conversation.)

8 MR. BISHOP: Sure. Pretty short.

9 COMMISSIONER BERNTHAL: But could you give a brief
10 indication here of those guidelines?

11 MR. MARTIN: Okay. I would urge the interested
12 parties to read it. I mean, paraphrasing it, I don't
13 think, will do justice to capture completely the
14 thinking that went into it. So I think we run the risk
15 of being a bit brief here.

16 MR. BISHOP: Let me just read a couple of the
17 paragraphs. It says, "During the preliminary review,
18 the following considerations were applied.

19 Is the allegation a specific safety or quality
20 issue or a generalized concern?

21 Has the staff previously addressed the issue? Has
22 the issue been previously dealt with or is it now being
23 dealt with by the licensee?

24 Is the allegation reasonable, and does it sound
25 competent?

1 Does the allegation represent a significant safety
2 or management concern?

3 Taking those factors into account, the staff
4 applied the following criteria for assessing which
5 allegations require resolution prior to exceeding
6 criticality," and then it gives a precriticality
7 decision.

8 It says, "In addition, the staff applied a third
9 criterion, as followed to determine which allegations
10 or concerns must be resolved prior to exceeding 5%
11 power.

12 Prior to exceeding 5% power, those allegations or
13 concerns must be resolved which offer specific new
14 information not previously available to the staff and
15 which may reasonably be expected to involve sizable
16 failures of systems that contain radioactivity or of
17 the ECCS system.

18 In addition, sufficient technical information
19 regarding these allegations or concerns is not presently
20 available to the staff for programs have not been
21 developed or implemented to ensure that regulatory
22 concerns related to reactor safety will be resolved
23 prior to exceeding 5% power.

24 In formulating these criteria, the staff emphasized
25 that the new information must be definitive, specific, and

1 creditable. As the staff has gained experience..." and
2 it goes on into...that's the essential thing.

3 CHAIRMAN PALLADINO: Thank you.

4 MR. MARTIN: One other thing I think would be
5 pertinent that we have not mentioned here is that I
6 believe a good number of the 400 or so items that are
7 in the not-resolved category were ones that were
8 received recently, like June.

9 And I think if you look at the statistics, we've
10 done a pretty good job keeping up with the older ones,
11 and there was a big slug of them came in in June that
12 we just haven't been able to resolve.

13 And I think that's one of the reasons why we still
14 have ...

15 COMMISSIONER ASSELSTINE: Jack, what's your
16 schedule for closing out the 700 or so that are
17 listed in the not-resolved category?

18 MR. MARTIN: Well, I think we can knock off about
19 300 of them in the next week or so, and the rest of
20 them, I think in the next couple of months.

21 Frankly, the flood of allegations we've received in
22 the last couple of months--I'm not asking for sympathy,
23 but they've been sufficiency diffuse and disorganized ,
24 that we've spent most of our time trying to categorize,
25 collate, and figure out what's duplicates in doing the

1 screening rather than working on resolution. And I
2 think a lot of it will depend on how much new stuff is
3 coming in.

4 Because I think maybe my priorities are mixed up,
5 but I think new things that come in, it's important to
6 at least screen them properly and see if there's any
7 problems in there.

8 And to the degree in which they're well-organized,
9 well-presented, that's easy. But that hasn't been the
10 case recently.

11 So I would guess in the next--certainly before
12 another couple of months are out, I hope to have these
13 finished, but it could be somewhat longer.

14 I'd like to get it done and out of the way so it
15 doesn't string out very much longer.

16 CHAIRMAN PALLADINO: Are we in the position to
17 proceed, then, with other aspects of the briefing?

18 COMMISSIONER ASSELSTINE: Let me ask. I have one
19 other question on bolts on the containment liner. Is
20 that better for when we get to construction QA?

21 MR. BISHOP: We can talk about that now, if you
22 like.

23 COMMISSIONER ASSELSTINE: I had a question
24 concerning the use of the bolts with the heads removed
25 in the containment liner.

1 Is that separate?

2 MR. BISHOP: Any particular question, or you'd just
3 like us to lay out the general...

4 COMMISSIONER ASSELSTINE: Yes, why don't you tell
5 me is there a problem there.

6 MR. BISHOP: Our conclusion is, no, there is not a
7 problem there. The specific issues involved with use
8 of those bolts was primarily the alleged lack of a
9 proper procedure to weld that bolt because of the
10 material.

11 The individual providing the allegation felt that
12 that material was not what is called a P1 material.

13 In the ASME Code, they allow you to weld P1
14 material to other P1 material or P1 to another P
15 number, but you have to qualify your procedure in each
16 case to do that.

17 It was his opinion that in this case, they were
18 welding P1 material to something, whatever the 'A307
19 was.

20 The specific resolution on that one is that the
21 ASME Code Case Number N-71 recognized A307 bolts as P1
22 material.

23 In fact, in, I believe it's the '83 edition of the
24 ASME Code that's now included specifically as a P1
25 material.

1 The procedure that was used is a P1 material to P1
2 material, and therefore the concern on that particular
3 issue went away.

4 COMMISSIONER ASSELSTINE: So it's fair to say that
5 this is one of those examples where what you were told
6 was accurate in the kind of material that was used,
7 but it turned out to be an acceptable approach.

8 MR. BISHOP: Yes. I guess I would add that from
9 the allegor's perspective, it's easy to understand why
10 he would have that concern.

11 You open up the color code, older edition of the
12 code, and you don't have access to the code case,
13 that's a proper question to ask.

14 CHAIRMAN PALLADINO: Okay.

15 COMMISSIONER ASSELSTINE: That's all I have.

16 CHAIRMAN PALLADINO: Can we go on, then, with this?

17 MR. DENTON: Yes. Since we're on bolting, I should
18 mention that there were about 50 allegations which
19 either came in through 2.206 petitions or through
20 interviews staff held with anonymous individuals, that
21 related to the question of anchor bolts.

22 We retained the assistance of a Dr. Burdett at the
23 University of Tennessee, and Brookhaven National
24 Laboratory, they reviewed these allegations and we
25 concluded in a report we provided you that this issue

1 is resolved, and that's about 50 or so of the
2 allegations that are in the unresolved list. Let me
3 turn next to the issuance...

4 COMMISSIONER ASSELSTINE: And how were those
5 resolved, Harold, basically, in terms of the anchor
6 bolt problems?

7 The anchor bolts were improperly sized, improperly
8 used, or...

9 MR. DENTON: Let me ask Mr. Vollmer or his staff to
10 describe the details.

11 COMMISSIONER ASSELSTINE: Okay.

12 MR. DENTON: I think they related to a number of
13 issues regarding to the bolt, such as sliding hulls,
14 imbedment, reuse of washers, these kind of details.

15 COMMISSIONER ASSELSTINE: Is this a question about
16 the short ones, too, or not?

17 MR. VOLLMER: Subject to resolution was that based
18 on Mr. Burdett's experience and both testing and
19 analytical, that we found satisfactory evidence, both
20 analytical and experimental, that the bolts were placed
21 in such a manner that they would be applicable loads.

22 And although in some cases the allegers felt that
23 since there was, for example, very small amount of wall
24 beyond where the bolt was placed, and things like that,
25 that this would not give adequate strength to the

1 structures being held by the bolts.

2 Upon reflection by our consultants, they felt that we
3 had good evidence that the loads could be accommodated.
4 So that's the basic resolution. We could do into any
5 detail that you wish.

6 MR. DENTON: We have a consultant in that area
7 available today if you'd like to hear from Dr. Burdett.

8 COMMISSIONER ASSELSTINE: I think that's fine.

9 COMMISSIONER BERNTHAL: Let me, as long as we're
10 talking about nuts and bolts here, ask a question about
11 structural steel.

12 On this document that was passed out, Jack, where
13 Lawrence Livermore Laboratory personnel, I gather,
14 assisted you or carried out an independent evaluation
15 as consultants, how was it?

16 MR. MARTIN: Well, we did some of both. You can
17 see this is a little confusing, but there's a
18 horizontal line there of NRC-examined where we have 56.

19 Those are ones our inspectors--government
20 inspectors--did personally. Then down where it says
21 LLNL-examined is 66.

22 COMMISSIONER BERNTHAL: Okay.

23 MR. MARTIN: So we did about half and they did
24 about half.

25 COMMISSIONER BERNTHAL: All right. Let me ask a
question, then. Under pipe supports, you've got the

1
2 Lawrence Livermore Laboratory people examined nearly
3 300.

4 MR. MARTIN: Right.

5 COMMISSIONER BERNTHAL: They found only three
6 problems, I guess, that were problems, which is some
7 comfort, since that's been a major issue from time to
8 time here.

9 MR. MARTIN: Exactly.

10 COMMISSIONER BERNTHAL: And raceway supports, they
11 examined 166, and found one problem of the 166, which
12 also looks pretty good.

13 But I was a little bit surprised at the structural
14 steel connections where 66 were examined by Lawrence
15 Livermore people, ten were found to be unsatisfactory.

16 Total examined, I guess that's by you and by them,
17 is that what that means?

18 MR. MARTIN: Correct.

19 COMMISSIONER BERNTHAL: 122, of which 21 were
20 unsatisfactory. The others, while the other
21 unsatisfactory reports are seemingly insignificant
22 statistically, but I'm not so sure I would draw that
23 conclusion there.

24 MR. BISHOP: I can speak to that if you'd like.

25 COMMISSIONER BERNTHAL: Yes.

COMMISSIONER ASSELSTINE: Also, when you look at

1
2 the NRC-examined list, it looks like it says 56, 21
3 welds were unsatisfactory.

4 MR. BISHOP: If you look at the footnote, there is
5 some cross-numbering, because we took into account some
6 of the Livermore numbers.

7 COMMISSIONER BERNTHAL: Nevertheless, it looks
8 statistically significant.

9 MR. BISHOP: It is a case where we found welds that
10 were higher than we would like to see, but if my
11 recollection serves me right, that was back in January
12 of '83, welds, structural welds in the fuel-handling
13 building.

14 I might add just as an aside, while we looked at
15 something like 122 connections, it involves something
16 close to 1,000 welds, and we're talking about a
17 population of about 1,000 welds.

18 Nevertheless, we went in and we did find discrepant
19 and unacceptable conditions in the fuel-handling,
20 building, structural welding.

21 We issued enforcement action at that time. The
22 utility coincidentally had an audit in progress and had
23 come to the same conclusion as we did.

24 The corrective action included a 100% reinspection
25 of all welds in the fuel-handling building.

They started out with a small sample. I believe it

1
2 was a 25% sample. They found discrepancies and they
3 enlarged it to 100% reinspection.

4 They went to other areas where this welding had
5 occurred in the annulus and in the auxiliary building
6 to check samples of welding there.

7 In short, the problem was identified. They took
8 action to assess the adequacy of earlier work. They
9 also, of course, as required by our enforcement
10 correspondence, were required to look at the root
11 cause, was it due to too many people with insufficient
12 training or welding inspectors not keeping up, and
13 that's generally what they concluded, was that they had
14 a large influx of welders in the November, December,
15 January time frame.

16 And the rate of inspector on board, they came on
17 board also at that time, but their training and
18 inspection activity was somewhat delayed.

19 Consequently, they had to go back and do the
20 reinspections as well as scrutinize.

21 CHAIRMAN PALLADINO: Tom, in addition to doing 100%
22 reinspection, was corrective action taken when faulty
23 welds were found?

24 MR. BISHOP: Yes.

25 MR. MARTIN: This is a case that I recall quite
vividly, in that I wonder myself, you know, is this an

1
2 indicator. How far does this extend in time and space?

3 And I think our conclusion on this is that we got
4 into this, I believe, in the permanent building, wasn't
5 it?

6 MR. BISHOP: No, it was the fuel-handling.

7 MR. MARTIN: Fuel-handling building, where the bulk
8 of this stuff was due to a contractor who had not done
9 much of this kind of work before.

10 He was contracted to handle this fuel-handling
11 building, built up a large work force to do it, and
12 just didn't get off to a very good start.

13 And fortunately, we were able to find this and
14 get it turned around, but it did require him going back
15 to look at all the work that he'd done up to that
16 point.

17 And the utility and the contractor confirmed what
18 we found, is that they were just not doing very well
19 and they had to reduce some of it.

20 COMMISSIONER BERNTHAL: You anticipated my
21 question. It sounded like you were saying that the
22 focus of the difficulties was in the fuel-handling
23 building.

24 MR. MARTIN: Yes.

25 COMMISSIONER BERNTHAL: And are you saying, then,
that you've broadened your investigation of welding to

1 other buildings? You again can cite statistically low
2 or insignificant or comparable other plant numbers and
3 deficiencies you found there?

4 MR. MARTIN: Yes.

5 COMMISSIONER BERNTHAL: Is that a fair statement?

6 MR. MARTIN: That's a fair statement.

7 MR. BISHIP: That subject is discussed in the
8 briefing book we gave you, and there's another sentence
9 in there that is misleading.

10 I want to correct that for the record. We talk
11 about that particular case of the fuel-handling
12 building and welds.

13 And then it is mentioned that in relationship to
14 the allegations, which is difficult to precisely say we
15 are inspecting for allegations or we're inspecting for
16 modifications, because the two went on concurrently,
17 but that there were some non-compliances, none of which
18 involve specific hardware inadequacies.

19 And I don't want you to be misled in looking at
20 such things as the anchor bolts in the electrical
21 areas, we found two loose anchor bolt nuts or something
22 of that nature, and none is very absolute, and I didn't
23 want to leave you with the impression there was
24 absolutely none but it was an acceptable amount.

25 CHAIRMAN PALLADINO: All right. You may proceed.

1 MR. DENTON: I'd like to go next to the area of
2 small bore piping. After the Commission decision on
3 low power, in which we imposed a number of conditions on
4 the licensee, it became apparent that there were
5 differing views within the staff regarding the adequacy
6 of snubbers and supports and thermal gaps and these
7 sort of issues in the piping.

8 Bill directed the formation of a peer panel to
9 objectively review these differences of opinion. I
10 want to have Dick Vollmer describe the activities.

11 He was the director of this effort. I'd just like
12 to note for the Commission that the group that was put
13 together includes individuals of well-known reputations
14 in this field, members of the main committee of the
15 ASME, that's the American Society for Mechanical
16 Engineers.

17 This includes one Mr. Yin's former supervisors, it
18 includes other regional inspectors who cover this area,
19 and individuals from other offices and regions.

20 We told Mr. Yin at the time that we'd like for him
21 to participate fully with the peer review group, and that
22 we would provide him an opportunity to comment if he
23 felt the need to on the report that they produced.

24 His comments are attached to the report because
25 this process did not resolve the differing views within

1 the staff.

2 I thought it wise to seek the views of the ACRS.
3 Three members of the Committee had originally requested
4 an opportunity to review the results of the
5 licensee's calculations in this area.

6 And at least one commissioner had at one time
7 suggested we go back to the ACRS. The ACRS had a
8 subcommittee meeting and a full committee meeting on
9 this topic. And you have their letter.

10 If you like, Mr. Vollmer can go into more detail
11 and tell you what he did, but in the interest of time,
12 I'll let you decide.

13 We have three or four slides, if you'd like Mr.
14 Vollmer to describe them.

15 CHAIRMAN PALLADINO: I think that is it an important
16 issue, and I think, as a matter of fact, we ought to go
17 into it, unless the commissioners...

18 UNIDENTIFIED: I can't hear.

19 CHAIRMAN PALLADINO: I'm sorry. Thank you. I say I
20 believe this is a very important area and we should go
21 into it in a little bit more depth.

22 I further believe that it might be appropriate,
23 unless the Commission objects, to have Mr. Yin read his
24 statement.

25 He has prepared a statement to the Commission, and

1 I would propose to follow up by asking Mr. Ebersole to
2 highlight the letter that the Commission received from
3 the ACRS.

4 COMMISSIONER ASSELSTINE: I agree with that. I
5 think that would be useful.

6 MR. DENTON: Let me ask Mr. Vollmer, then, to
7 describe the activities of the review group, its
8 differences of opinion, which still exists, as you are
9 aware, between Mr. Yin and the group.

10 MR. VOLLMER: Thank you. I would like to briefly
11 describe the background leading to the formation of the
12 group, the qualifications of the members who
13 participated in the group.

14 What we did, to try to resolve these issues, and
15 finally, the conclusions of this effort.

16 As you will recall, at the March 26th Commission
17 meeting, certain issues were raised by Mr. Yin which he
18 felt should preclude operation of Diablo Canyon at low
19 power.

20 You requested that the ACRS and the staff look into
21 these issues and report back to the Commission and, as
22 Harold indicated, EDO directed the review group to be
23 formed.

24 And at that time it consisted of eight staff
25 members and one consultant. We met with Mr. Yin to

1 discuss in detail the issues that he had and his basis
2 for concern in the issues.

3 We met with the licensees, principal allegor.
4 performed site inspection, and met with the ACRS.

5 CHAIRMAN PALLADINO: What time frame are you ...

6 MR. VOLLMER: That's about two weeks after the
7 March 26th Commission meeting. In that two-week
8 period, we performed the activities I just described.

9 And that being the basis for the conclusion at that
10 time, which was endorsed by the ACRS, that the issues
11 raised should not preclude operation of the Diablo
12 Canyon at low power.

13 However, we recommended that seven license
14 conditions addressing these issues, some addressed by
15 Mr. Yin and some we added ourselves, be part of the low
16 power license, and that these issues be resolved prior
17 to a decision on full power.

18 So following the Commission decision on low power,
19 the scope of the review team was reoriented, as shown
20 in the first slide, namely, the seven license
21 conditions, which we went over with the Commission at
22 that time, in (Inaudible) detail.

23 We also added as part of the scope of our review,
24 the Independent Design Verification Program, looking
25 into that, where Mr. Yin had found this to be lacking

1 in certain areas, in particular the rationale used by
2 the IDVP for sample size and their decision criteria.

3 And finally, review of the conduct of activities
4 performed by the on-site project engineering group
5 which we sort of lumped and called programmatic issues.

6 The next slide will show the expansion of the
7 review group that was accomodated to try to address all
8 these issues in a timely manner.

9 We added one staff member and five consultants.
10 Next slide, please. Only two of these members had any
11 detailed prior involvement with IDVP issues, piping
12 issues or the issues involved here.

13 I might indicate that the group was constituted to
14 be rich in practical experience with nuclear plant
15 piping and components, both in the analytical sense and in
16 the field hardware sense.

17 They were asked to give their judgment on these
18 issues and to pursue the issues to the extent that they
19 felt necessary to support whatever conclusions we
20 needed to draw.

21 I'll be brief on this. Mr. Allison and Mr.
22 Heishman, from the Inspection Enforcement Office, have
23 had substantial involvement in Integrated Design
24 Inspection activities, construction activities, and
25 overall plant inspection activities.

1 Mr. Bosnak, who is the chief of our mechanical
2 engineering branch, you may know, has been a member of
3 the main committee of the ASME boiler pressure vessel
4 committee for a number of years, since 1968.

5 He has also received what I could characterize as
6 the ASME's highest award for outstanding contributions
7 to the development of national safety standards.

8 Mr. Burr and Mr. Morton, who are from EG&G, work at
9 the Idaho National Engineering Laboratory, our expert
10 in piping systems and analysis, and have a great deal
11 of practical experience in those areas.

12 Mr. Chen and Mr. Fleck represent a great deal of
13 experience from another of our organizations run by
14 DOE, namely, the Energy Technology Engineering Center.

15 And they also have a great deal of hardware and
16 analytical experience in structures, piping, piping
17 supports, such systems.

18 Mr. Hartzman and Mr. Sullivan and, of course, Mr.
19 Knight, are members of the NRR staff. Mr. Hartzman had
20 been pre-involved in Diablo Canyon, so he and Mr.
21 Knight are the ones I would characterize as fairly
22 close to these issues in the past.

23 Generally, the rest of the list has not been
24 particularly close to the issues.

25 Mr. Manoly is from Region I. He has a good deal of

1 experience with architect engineer. He is now sort of
2 a peer to Mr. Yin, doing the same type of inspections
3 for Region I, and he has been a very valuable member of
4 the group.

5 Mr. Rodabaugh is a well-known authority in piping
6 and stress analysis, fatigue and loading capacity.
7 He's also a member of the ASME boiler and pressure
8 vessel committee on nuclear components, and I hope I
9 didn't leave anybody out except myself and Mr. Taylor,
10 who you know.

11 Bernie Saffell, who is a program manager for
12 Brookhaven National Laboratory, Battelle Columbus
13 Laboratory, excuse me.

14 And he also has a great deal of analytical and
15 practical experience with such things as being
16 responsible for the piping and loft, where they not
17 only had to be designed but a great deal of
18 confirmatory testing.

19 So again, we tried to make the group rich in
20 experience across the board, and look for their
21 professional judgments in all of these areas which were
22 akin to areas that they have already had a good deal of
23 prior experience.

24 Since the effort was initiated, next slide, please,
25 the peer review group or parts thereof have held 24

1 meetings or audits, as indicated on this slide.

2 These included three transcribed meetings with the
3 licensee, three meetings with allegers, two of which
4 were transcribed, ten engineering or hardware audits
5 which I would characterize as smaller group would go in
6 and look in great detail at specific calculational
7 packages, or go into the plant and look very carefully
8 at hardware and how it was compared this with the
9 design and see if the judgment was there for
10 performance and functionability.

11 And finally, we had four meetings with the ACRS or
12 subcommittees, including one meeting with the ACRS
13 members and Mr. Yin at the plant, the purpose of which
14 was to have Mr. Yin indicate to ACRS and the rest of us
15 the examples of his hardware problems.

16 Each task group spent approximately a week looking
17 at detailed calculational and engineering packages, and
18 conducting pipe walkdowns and other hardware
19 inspections.

20 A separate task group was also formed to look at
21 the IDVP work, and that's part of the summary report
22 that we prepared in SSER 25.

23 The licensee, in response to the license
24 conditions, and in response to additional work that the
25 Staff Peer Review Group had asked the licensee to do,
I'm not sure what the licensee's effort was, but in

1 many cases, we expanded the scope of our activity far
2 beyond what was anticipated at the time we made our
3 presentation to you for low power license.

4 I guess as an acknowledgement of that, the group
5 that we have put together here spent a total of well
6 over two professional staff years just in this activity
7 since the last part of March.

8 We gave them no allocations in terms of scope and
9 time in pursuing these activities, although we did set
10 target completion dates for it.

11 I might indicate the target completion dates were
12 not met because review group work was not completed to
13 the satisfaction of the group members.

14 I think an equally important element in the work
15 conducted by the group was the inclusion to the fullest
16 extent possible of Mr. Yin in the group's activities.

17 He was invited to all of our meetings and audits,
18 was provided with all the documents we received from
19 the licensee, as well as draft reports and internal
20 memoranda were shared with him.

21 The final slide indicates the results of the Peer
22 Review Group effort. This report, as I indicated in
23 SSER 25, which also includes Mr. Yin's comments on our
24 draft report, and the ACRS report to the Commission is
25 also included there.

1 We did find areas of insufficient documentation.
2 We found errors, we found failure to follow documented
3 procedures.

4 And we found practices that were not generally used
5 to the knowledge and experience of the review group
6 members, and therefore required their follow-up.

7 However, in probing the issues, the group did find
8 that the engineering judgments could be supported
9 and that the hardware in the plant met applicable
10 requirements.

11 We did not give away any margin required by
12 applicable code of regulatory criteria. I think that's
13 an important thing to consider because where we did
14 require the licensee to go back and do reanalysis or
15 sharpen the pencil and so on, we did so in an extent
16 that would not cut applicable code or regulatory
17 margins, but if it could be demonstrated by a more
18 sophisticated analysis that it met these margins then
19 the resultant design or analysis would be satisfactory.

20 So I want to emphasize that we did not give away
21 design margin that are required by our regulations and
22 so forth.

23 And the conclusion, I guess, the group was unable
24 to really find any safety issues in the as-designed and
25 as-built plant.

1 Again, we looked more at the bottom line and
2 recognized all the way along that there were errors and
3 perhaps bad practices that got us to that end point,
4 that we focused on the end point.

5 We found significant...

6 CHAIRMAN PALLADINO: I don't understand. You said
7 you found...use your words again. Bad practices and
8 failures?

9 MR. VOLLMER: I think, for example, I think Harold
10 mentioned before that the on-site project engineering
11 group had not followed their own procedures.

12 They had exceeded their authority in doing work
13 that their procedures would allow them to do.

14 They did not necessarily follow the PTL QA
15 procedures that they should have. But we went and
16 looked at the final design packages, we looked at the
17 as-built plant hardware, and despite the lack in some
18 cases of following proper procedures, the engineering
19 effort was appropriate to the task that was to be done.

20 And the final design, in the judgment of the peer
21 group and, of course, in the judgment of the IDVP and
22 a lot of other people that looked at that, is
23 acceptable and meets regulatory requirements.

24 So again, we did not try to go back and say, did
25 they meet all their procedural requirements, because

1 clearly in some cases they didn't.

2 And there's no point in trying to prove or disprove
3 that.

4 COMMISSIONER ASSELSTINE: Dick, it sounds like what
5 you're saying is that there was a breakdown in the QA
6 program, particularly with respect to this on-site
7 engineering group.

8 MR. VOLLMER: That's right.

9 COMMISSIONER ASSELSTINE: And what you've tried to
10 do now is go back and by looking at the plant itself,
11 the work that was done, compensate for that breakdown
12 in the QA program.

13 Is that a fair characterization?

14 MR. VOLLMER: I think so, but more than just look
15 at the hardware, go back and look at some of the
16 detailed engineering packages.

17 COMMISSIONER ASSELSTINE: Okay, the design...

18 MR. VOLLMER: See that they eventually found a good
19 engineering rectification of any previous deficiencies.

20 MR. DENTON: One of the license conditions, for
21 example, required the company to recalculate the
22 adequacy of each one of the supports or hangers which
23 had been designed by this on-site engineering group.

24 They did that, and then Dick's group audited the
25 company's recalculation of all of it, and then looked

1 at them also.

2 COMMISSIONER ASSELSTINE: Isn't a key question in
3 our judgment of how much confidence we can have in this
4 review program, that the extent to which both the
5 company was required to look at these things, what
6 they were required to do, and the extent to which we
7 audited.

8 MR. DENTON: The company was required to do 100%,
9 and then the peer group audited to the extent their
10 professional judgment said were necessary.

11 MR. VOLLMER: That particular license condition
12 Harold's talking about, there was something like 350
13 piping support analyses that had to be reviewed by the
14 company.

15 We looked at their program for review of those, the
16 check list, to see exactly how they proceeded through
17 that.

18 We looked at roughly 20 packages in great detail
19 and some of these were engineering packages, half or
20 more inch thick, and some of these covered quite a
21 history of the design process, and modifications and so
22 on.

23 (Inaudible) really trace that back and came to the
24 judgment that in the final analysis, appropriate
25 engineering consideration had been given in almost all

1 cases.

2 Now there were some examples of hardware
3 modifications, three of these had to do with angles for
4 supports that exceeded the length that they should
5 have, and without being raised, it's questionable
6 whether or not one could sharpen the pencil and find
7 these adequate, but the tack was taken, as we would
8 support it with the licensee, they stiffened them by
9 adding support to them.

10 They did not follow their own procedures. Well,
11 let's see, in the judgment of the staff, these links
12 were long enough in these three unsupported angles that
13 they should have been, given additional support, the
14 licensee argued that he had demonstrated evidence that
15 he did have an adequate system but rather than go
16 through the analytical process, he fixed them.

17 COMMISSIONER ASSELSTINE: Were the 350 packages,
18 that's the total population for the plant?

19 MR. VOLLMER: That's total population for the
20 license condition to receive review of all small bore
21 piping supports which were reanalyzed and requalified
22 by computer analysis.

23 COMMISSIONER ASSELSTINE: Okay.

24 MR. VOLLMER: That was the total population, yes.

25 COMMISSIONER ASSELSTINE: Okay. And we looked at 20.

1 MR. VOLLMER: We looked at 20.

2 COMMISSIONER ASSELSTINE: Of the 350 or so.

3 MR. VOLLMER: Six percent, I think, was the actual
4 number.

5 COMMISSIONER ASSELSTINE: And did we find anything
6 wrong in the reanalysis work, in the 20 that we looked
7 at?

8 MR. VOLLMER: We found that...

9 COMMISSIONER ASSELSTINE: Anything that would
10 question the quality of the reanalysis work in any way?

11 MR. VOLLMER: No. We agreed with the quality of
12 the reanalysis. There were errors found...

13 COMMISSIONER ASSELSTINE: In the conclusions that
14 they reached.

15 MR. VOLLMER: Yes, we agreed with that.

16 COMMISSIONER ASSELSTINE: The reanalysis itself
17 might have disclosed errors in the original calculations.

18 MR. VOLLMER: That's right.

19 COMMISSIONER ASSELSTINE: But in terms of the
20 reanalysis work.

21 MR. VOLLMER: Yes, their reanalysis consisted in
22 many cases of a detailed check list. In some cases
23 they found it necessary to go in and do detailed
24 calculations because one couldn't tell from the more
25 cursory review of the adequacy of the system.

1 COMMISSIONER ASSELSTINE: Yes, when I read the
2 supplement to the SER and the license condition, for
3 that matter, it was a little confusing to me what the
4 utility had actually done, because Harold mentioned
5 recalculation, but I see review of reanalysis...

6 MR. VOLLMER: I think review is the proper work
7 which...

8 COMMISSIONER ASSELSTINE: But you didn't go back
9 and calculate every one.

10 MR. VOLLMER: ...which in some cases did involve
11 recalculation, but not necessarily a complete
12 reanalysis.

13 COMMISSIONER ASSELSTINE: What was the criterion
14 for deciding which ones they had to go back and
15 completely recalculate, and which ones they simply had
16 to go back and review or reanalyze, and what's the
17 difference between review and reanalyze, versus
18 recalculation?

19 MR. VOLLMER: Let me ask the task group leader on
20 that, Mr. Manoly, if he'll answer it. Mr. Manoly is
21 the inspector from Region I.

22 MR. MANOLY: Yes.

23 COMMISSIONER ASSELSTINE: Did you get the question?

24 MR. MANOLY: Yes. My name is Karl Manoly, NRC Region
25 I. The question is about the criterion that they used

1 for the review of the calculations?

2 COMMISSIONER ASSELSTINE: Yes, to decide whether to
3 fully recalculate or to review or reanalyze, and if you
4 can tell me what the difference is between review and
5 reanalyze and fully reviewing the calculations.

6 MR. MANOLY: The licensee had developed three
7 instructions that was used as the basis for the review
8 process.

9 And the review was done based on these instructions
10 that we had approved and gone through with with the
11 licensee.

12 Sometimes the review (Inaudible) five things that were
13 minor or major, but we had to check it out on the list it,
14 anyhow. And some required analysis. But really based
15 on the judgment of the reviewer, whether he had to do
16 reanalysis or not.

17 COMMISSIONER ASSELSTINE: You mentioned there were
18 three instructions?

19 MR. MANOLY: Three instructions.

20 COMMISSIONER ASSELSTINE: And that governed the
21 decision about whether you had to recalculate or
22 whether the review was enough.

23 MR. MANOLY: Yes. There were many geometric
24 differences between what was done initially and what
25 the geometry support looks like.

The reviewer might elect to reanalyze the supports

1
2 using computer, again, just to confirm the original
3 judgment that was done, maybe done on approximations.

4 COMMISSIONER ASSELSTINE: How much discretion does
5 that give to the individual reviewer, the utility's
6 reviewer, in deciding whether to do the recalculation
7 or whether simply to just do a review?

8 I guess what I'm trying to get a sense of is how
9 much confidence can we have in the portions that were
10 simply reviewed as opposed to recalculating?

11 The sense I had, when we talked about this issue
12 before, was that everything was going to be
13 recalculated.

14 MR. MANOLY: Not everything.

15 MR. DENTON: Let me refer to you for the specific,
16 but just keep in mind the re-review was not done by the
17 on-site engineering group which was the cause of the
18 problem.

19 They were done by the headquarters San Francisco
20 office, which we had reviewed in connection with the
21 IDVP and other calculations.

22 So it was not the same group doing the work over.
23 It was brand-new individuals who had been involved in
24 the IDVP. I'll let you answer the details on how they
25 decided.

MR. MANOLY: When you get to design, there are a lot

1 of things that you know from experience, as you do it over
2 and over, how much the change in results can be.

3 And really, that's here the key issue, is you look at
4 the calculation package, and you know that the numbers
5 have changed by a few inches here and there.

6 What kind of change in results can it be? And
7 designers with more experience can make that judgment
8 (inaudible) on other guys with less experience.

9 And that's what we tried to do when we went there
10 with our team, is to see if the judgment when it was
11 made, was adequate or not.

12 And we found that most all the time, the judgments
13 happened to be proper, in some cases where there were a few
14 dimensional differences they had decided not to go
15 (inaudible).

16 So it was just a matter of (inaudible) that we had to
17 go up and redo it over again.

18 COMMISSIONER ASSELSTINE: Were there instances in
19 the few that you all actually audited in which you
20 weren't satisfied that reanalysis was sufficient and
21 directed that they actually do a recalculation?

22 MR. MANOLY: No. We didn't require them to do any
23 reanalysis or any reevaluation.

24 You have to realize that these inspections were
25 done on-site and checked and reviewed, and then in San

1 Francisco was a different team of engineers that
2 relooked at these packages, rechecked them.

3 So it had gone through two cycles of (inaudible)
4 checking and review.

5 COMMISSIONER ASSELSTINE: Okay.

6 CHAIRMAN PALLADINO: Okay.

7 MR. MANOLY: Thank you.

8 COMMISSIONER BERNTHAL: I had one specific
9 question, and I don't know whether there's an overlap
10 here or not.

11 But we talked a few minutes ago about the
12 reinspection of pipe supports and especially the
13 Lawrence Livermore Laboratory had done a good deal of
14 that.

15 Is there necessarily any overlap at all between
16 these two?

17 MR. MARTIN: Well, I was thinking about that.
18 What we did and what the Livermore people did was check
19 them against the drawings that applied.

20 Now I think when they checked the calculations, I
21 guess we did not coordinate these at all.

22 We took Livermore and turned that--you know,
23 they've been operating sort of independently here for
24 months on end.

25 COMMISSIONER BERNTHAL: Yes. Yes.

1 MR. MARTIN: Sort of off quite separate from the
2 rest of this.

3 MR. VOLLMER: They were so independent, I think, at
4 one time the two groups met head-on crawling along a
5 steam line and said, "What are you doing here?"

6 (Laughter.)

7 But I think the focus of the Livermore work was
8 more with, did it meet the hardware criteria for
9 installation, were the welds appropriate, and so on.

10 So we looked more at the design. But confirmatory,
11 we certainly didn't stop there. We did look at the
12 hardware also.

13 I think if I could characterize the thrust, ours
14 was more design and theirs was more looking at the
15 adequacy of the hardware as installed.

16 COMMISSIONER BERNTHAL: On the outside chance that
17 there might have been, did you check to see whether
18 there was overlap, significant, I should say, overlap,
19 between what they did and what you've been doing?

20 Are there any conclusions to be attached to that,
21 if there was? I guess it would be random chance, if
22 there were.

23 MR. VOLLMER: No, we have not. I have not, anyway.
24 My group has not.

25 MR. DENTON: They're different activities, and I

1 think just to reiterate what Jack said, he was checking
2 to see if they were built the way the drawings said.

3 COMMISSIONER BERNTHAL: I understand.

4 MR. DENTON: And then you can look upon this effort
5 as saying, were the drawings correct.

6 MR. BISHOP: We are aware of some overlap. The
7 degree of that, I ...

8 MR. DENTON: I didn't mind it at the time. I
9 think, Jack, you started your effort before the peer
10 group got started.

11 It seemed worthwhile because of the issues in this,
12 just to keep both groups going, and get a double look
13 at certain things.

14 MR. MARTIN: Well, essentially, one's looking at
15 construction quality and the other at design.

16 CHAIRMAN PALLADINO: Any more, Dick?

17 MR. VOLLMER: Finally, if I may, during the second
18 of the main issues, namely, that of the Independent
19 Design Verification Program, we had a five-member
20 review group, which spent time at the NRC offices and
21 over three days at the offices of Robert Cloud, where a
22 lot of this work was done.

23 And discussed in detail and looked in detail at
24 some of the packages that they had put together in
25 forming their judgments for IDVP.

1 We got some packages out of storage, we focused more
2 on their decision criteria, and how they decided
3 whether or not something was generic in nature or could
4 be dismissed as a random error, and came with the
5 conclusion that the previous staff conclusions and the
6 Teledyne conclusions regarding IDVP remain valid, that
7 is, we felt that the process met guidelines and
8 criteria set forth by the Commission originally.

9 The last item was that of the on-site project
10 engineering group, the programmatic issues, and this
11 group, as we indicated, had been the subject of a
12 number of allegations and these had in many cases been
13 substantiated that they exceeded their authority,
14 procedural authority to do work.

15 They had been given the directions by memoranda,
16 and they didn't follow, in some cases, the correct QA
17 practices.

18 We reviewed, actually, in large part, work done by
19 that group under License Condition 1. In addition, on
20 June 14th, the licensee rescinded the responsibility
21 and authority of this group to do safety-related work,
22 which would lead to a final engineering package or
23 hardware modification.

24 Since the review group was focusing on the adequacy
25 of the actual work and since the licensee revoked

1 responsibility of that group, we reoriented our review
2 plans and sent a team to the engineering and site
3 offices to audit the licensee's effectiveness in
4 removing the engineering authority from this group
5 doing safety-related work, and in transferring it to
6 the offices in San Francisco.

7 Our report to this audit has not been issued yet
8 because this took place a week ago, concluded a week
9 ago, but I've been told that the conclusions of that
10 group are that the licensee's efforts in this area were
11 effective.

12 We felt that really mooted the issue since despite
13 the perhaps poor procedural aspects used in the work
14 done by this group, we felt that we had a good handle that
15 the technical adequacy and engineering adequacy was
16 adequate.

17 I've asked each member of the peer review group to
18 review the group report and my comments of today, and
19 there was concurrence in both of those.

20 As Harold indicated, most of the review group are
21 here and would be happy to go into whatever detail the
22 Commission wishes in response to your questions.

23 COMMISSIONER ACCELISTINE: I had a few more
24 questions about a couple of specifics in the peer group
25 report.

1 One was on page 1-5. Under item number four, say,
2 "Considerations of seismic loads on support structures
3 resulting from the self-weight excitation of the
4 supports were accounted for in some supports and
5 ignored in others.

6 The task group determined that such considerations
7 should be included in the evaluation of small bore and
8 large bore pipe supports where it is significant.

9 The evaluation, however, need not be completed
10 before ascension to full power."

11 Would you tell me what the basis for the judgment
12 is that that deficiency does not have to be corrected
13 until after full power?

14 MR. VOLLMER: Kamal, Do you want to address this? I'm
15 still trying to find it. I hope he heard it.

16 COMMISSIONER ASSELSTINE: Page 1-5, about the top
17 half of the page.

18 MR. VOLLMER: Okay. Did you hear it?

19 MR. MANOLY: Yes. Your question is how significant
20 the contribution of self-weight excitation is to the--
21 usually in the design of pipe supports, the support is
22 small and basically a small component.

23 You don't consider excitation of the structure
24 itself. As supports get bigger, when you have multi-
25 support or some large frame supporting, then (inaudible)

1 contribution on the weight becomes bigger and sometimes
2 you have to reach around a long way to reach the pipe,
3 which results in bigger members.

4 For those, effective self-excitation becomes more
5 considerable, and from what we've seen that they have
6 addressed in some of that, some were not considered.

7 Some we don't expect that they should be
8 considered, but for a sake of completeness, we ask them
9 to review all the supports and include the self-weight
10 excitation.

11 In our judgment, it's not going to affect the
12 overall margin of support like significant amount that
13 you would lose a lot of your monitoring from the self-
14 weight excitation.

15 COMMISSIONER ASSELSTINE: Okay.

16 MR. MANOLY: There is enough adequate margin in the
17 support, even if you have that additional stress from
18 the self-excitation is not going to be exceeded.

19 COMMISSIONER ASSELSTINE: Okay. And you're
20 satisfied that there aren't any of them out there that
21 have larger components or pipes on them as well, so
22 that...

23 MR. MANOLY: Well, they are doing that effort now,
24 and they committed to completing it by October first.

25 COMMISSIONER ASSELSTINE: My second question was on

1 page 2-7, regarding snubbers, the last paragraph on the
2 page. You say, "To verify the information provided in
3 the licensee's submittal, the task group reviewed three
4 piping system analyses."

5 Could you tell me what percentage that was of the
6 total population? And is it a big enough percentage
7 so that it gives you a high degree of confidence in the
8 accuracy of ...

9 MR. VOLLMER: This is Bernie Saffell, of Battelle
10 Columbus Lab, who was the task group leader on that
11 area.

12 COMMISSIONER ASSELS'TINE: Okay. Last paragraph on
13 2-7, first sentence.

14 MR. SAFFELL: Okay. We reviewed only three
15 analyses where we looked at the analysis with the
16 snubber and without.

17 We actually reviewed more than that with the
18 support in there.

19 In terms of total population, I have to go back to
20 the original submittal. Three, I believe, is of the
21 order of like 2% or 3%. It's not a very large
22 percentage.

23 But that coupled with the review we did of analyses
24 with the supports in place, provided the confidence
25 required to make that judgment.

1 COMMISSIONER ASSELSTINE: Give me a rough
2 comparison, say, if they were basically around 100
3 analyses in all.

4 MR. SAFFELL: Oh, no. There were like--I don't
5 remember the exact number. Just a second. Do you
6 remember the number of snubbers within the 5D.

7 UNIDENTIFIED: About 30.

8 MR. SAFFELL: About 30 supports within the 5D.

9 COMMISSIONER ASSELSTINE: So you looked at 10%.

10 MR. SAFFELL: Okay. Without, and we looked at
11 more than that where we just looked at one analysis as
12 opposed to both analyses.

13 COMMISSIONER ASSELSTINE: You're satisfied that
14 that's a big enough population?

15 MR. SAFFELL: Yes, sir.

16 COMMISSIONER ASSELSTINE: To give you confidence in
17 the quality of the analysis?

18 MR. SAFFELL: Yes, sir. Well, as I say, those
19 three coupled with the ones we looked at where we
20 didn't look at the analysis without, provided that
21 confidence, yes, sir.

22 COMMISSIONER ASSELSTINE: Thank you. And the last
23 question I had was on page 4-5, under Conclusions. You
24 say, "PG&E has identified all pipe supports for which
25 thermal gaps have been specifically included in the

1 piping thermal analyses, section four of the report,
2 identified as reference one, includes a commitment to
3 undertake a program, to qualify the piping system
4 supports for loads obtained with the gaps ignored in
5 the thermal analyses.

6 PG&E has also committed to complete this program by
7 the end of the first refueling outage."

8 Could you give me the basis for concluding that
9 that analysis does not have to be done prior to full
10 power operation?

11 MR. VOLLMER: Yes. I'd like to have Mr. Sullivan,
12 task group leader in that area.

13 MR. SULLIVAN: Excuse me. I just want to refresh
14 my memory here.

15 COMMISSIONER ASSELSTINE: Okay.

16 MR. SULLIVAN: We wrote up an explanation on a
17 previous page, and let me read that, and then I think
18 if that doesn't answer the question, we can go into
19 some more of the details.

20 COMMISSIONER ASSELSTINE: Okay. This is on 4-4?

21 MR. SULLIVAN: Right. "The piping systems for
22 thermal gaps and service above 200 degrees during
23 normal and upset have been analyzed using as-built
24 gaps, have been shown to meet criteria, that they do
25 meet code criteria as they've been analyzed.

1 These systems have also been heated up and cooled
2 down through hot functional testing without any adverse
3 effects.

4 During one fuel cycle, the number of additional
5 thermal cycles for these systems would be small and the
6 as-built gaps would not be expected to change
7 appreciably.

8 Therefore, the task group finds the proposed
9 program to remove gaps from the thermal analyses of
10 these piping systems and requalify anything as
11 necessary by the end of the first refueling outage as
12 acceptable." I paraphrased there a little bit at the
13 end.

14 COMMISSIONER ASSELSTINE: Okay.

15 MR. SULLIVAN: Does that answer the question?

16 COMMISSIONER ASSELSTINE: Yes, I think it does.
17 You're satisfied...

18 MR. DENTON: Ted, maybe you could just elaborate on
19 this a bit. How big are the gaps that we're talking
20 about, and what type shimming is being considered?

21 MR. SULLIVAN: Okay. To get all the points here,
22 we're only talking about small bore piping and the gaps
23 are the normal construction tolerance gaps with a
24 maximum of 3/16s of an inch.

25 COMMISSIONER ASSELSTINE: I had a couple of other

1 questions for the staff, not based upon the SER, but
2 based upon Isa Yin's inspection report. I don't know
3 whether you want to hold off on that until after we
4 hear from Isa.

5 CHAIRMAN PALLADINO: Yes, I was thinking that we
6 probably ought to hear from Isa.

7 COMMISSIONER ASSELSTINE: Fine.

8 CHAIRMAN PALLADINO: The question is should we try
9 to complete this before lunch. Perhaps, since we've
10 been sitting here for quite a while, and I don't want
11 to rush this, let me suggest that we break for lunch in
12 a minute or so, then start with Mr. Yin's presentation,
13 ask the ACRS to comment on its role, and then open to
14 questions related to the whole topic. All right?

15 COMMISSIONER ASSELSTINE: Great. Good idea.

16 CHAIRMAN PALLADINO: Okay. Well, thank you. We'll
17 stand recessed, and we will convene at 1:30. All
18 right.

19 (Whereupon, the meeting recessed at 12:20 p.m.)

20 (The meeting reconvened at 1:30 p.m.)

21 CHAIRMAN PALLADINO: This is a continuation of our
22 meeting, which we're considering the question of
23 whether or not Diablo Canyon should be permitted to go
24 up to full power.

25 I propose that we start the afternoon's session by

1 having Mr. Isa Yin deliver his prepared statement.

2 I would propose then to ask Mr. Ebersole, as Chairman
3 of the ACRS, to summarize the results of their review
4 of this matter.

5 I would then ask Mr. Vollmer to indicate if there
6 are any other differing professional opinions among the
7 members of the peer review group, and if so, to
8 highlight them or have the individuals involved so
9 indicate their position.

10 So why don't we begin with having Mr. Isa Yin
11 present his statement.

12 MR. YIN: Mr. Chairman and members of the
13 Commission, thank you for inviting me to present my
14 personal view of matters concerning the issuance of
15 Diablo Canyon Unit 1 full power license.

16 As you know, I was requested by the headquarters
17 staff to participate in the NRC's investigation of
18 allegations concerning the construction of Diablo
19 Canyon.

20 I was specifically assigned to pursue allegations
21 in the piping design control area.

22 Based on inspections conducted periodically from
23 November 29, 1983, to May 2, 1984, I identified many
24 significant technical and QA deficiencies.

25 Contrary to the approach normally taken by my

1 Region with significant problems, no enforcement
2 conference was held, nor was there any enforcement
3 action taken.

4 No requests were made for license program upgrade,
5 and there was no attempt to broaden the inspection
6 areas and scope.

7 Defective programs such as Quick Fixes and Onsite
8 Project Engineering Group design activities were
9 allowed to continue until June 1984, when the licensee
10 decided to abolish these practices.

11 My request to follow up on the license program
12 revision was denied.

13 In the follow up on the seven License Condition
14 items that were incorporated into the low power
15 license, even though I was the instigator for six of
16 the seven items, and would normally be considered to be
17 the most knowledgeable man on the issue and details,
18 nevertheless, I was not considered essential in the
19 follow up review and evaluation.

20 Peer Review Team inspection for Items number one
21 and seven was conducted on that week on May 1984,
22 during my vacation overseas.

23 Peer Review Team inspections for items number two
24 to number six were performed during the fourth week of
25 May 1984, when I returned from vacation and accompanied

1 the ACRS on the site tour.

2 Subsequent review of the Peer Review Team reports
3 contained in the draft SSER revealed that they
4 contained mostly undocumented reviews and casual
5 observations.

6 There were cases where the inspection sample
7 selected was extremely small, where problems originally
8 identified continue to exist, where review criteria
9 were compromised without technical justification, and
10 where Team failed to address the specific program
11 deficiency issues.

12 For the number of staff assigned and hired to work
13 in the Peer Review Teams and the length of time spent
14 since April 13, 1984 Commission meeting, I don't feel
15 as though we have really addressed all the issues.

16 The 29-page "Concern Items on Independent Design
17 Verification Evaluation of Large Bore and Small Bore
18 Piping and Pipe Support Design," resulting from my
19 review of a number of Cloud reports, were submitted to
20 NRR for evaluation on April 25, 1984.

21 Although these were a part of my original planned
22 inspection, I requested NRR staff involvement based on
23 the considerations that, first, since NRR co-managed
24 the program, any findings would be against our own
25 staffers.

1 Second, since NRR had already accepted the program,
2 they should be able to explain the situation if
3 deficiencies were being identified.

4 The inspection was not scheduled until the week of
5 June 17, 1984.

6 Burdened by long presentations, indoctrinations for
7 the Special Review Team members, discussion on issues
8 unrelated to the IDVP, and the unavailability of
9 documents that had been stored in remote locations, and
10 my personal schedule difficulties, the actual time that
11 I spent inspecting that week was less than 12 hours.

12 My request was to travel back Sunday to continue
13 the inspection first thing Monday was denied.

14 As you can see, I was not pleased with how NRR has
15 been managing and resolving my inspection findings. I
16 believe additional investigation and inspection effort
17 is warranted to properly close out identified areas of
18 concern.

19 I believe this could be accomplished in three to
20 five weeks. This follow up inspection would provide
21 the Commission a clearer picture of the extent of the
22 problem or the lack of problem.

23 In any event, if the Commission decides to grant
24 the Diablo Canyon 1 a full power operating license
25 today, I shall respect the Commission's judgment and

1 decision, and shall cooperate fully in any follow up
2 actions deemed necessary.

3 Looking back, I know that I have been honest in my
4 work, and feel that I have fulfilled my assigned duty.
5 Despite differences in professional opinion, I have not
6 doubted the NRR management's honest and integrity, and
7 wish them the best of luck in handling the many other
8 ongoing troubled facilities.

9 Thank you.

10 CHAIRMAN PALLADINO: Thank you, Mr. Yin. I do want
11 to commend Mr. Yin for his forthrightness in coming
12 forward with his comments.

13 It's always distressing to have differing
14 professional opinions in any field, but we have to cope
15 with them.

16 And the Commission, recognizing the implications of
17 differing professional opinions, asked the ACRS, the
18 Advisory Committee for Reactor Safeguards, to look into
19 the matter and give us its judgment.

20 We have with us today Mr. Jesse Ebersole, the
21 Chairman of the ACRS, and at this time, I would propose
22 to have Mr. Ebersole highlight the results of their
23 review.

24 MR. EBERSOLE: Thank you, Mr. Chairman. It's not
25 always that the ACRS letters to you are models of

1 brevity and clarity, but I think maybe this is an
2 exception, so I can read the gist of it. It's hardly
3 one page. I think it covers the problem efficiently.

4 During the 291st meeting on July 12-14, 1984, the
5 Advisory Committee on Reactor Safeguards completed its
6 review of a draft report prepared by the Diablo Canyon
7 Peer Review Group, as requested by your memorandum
8 dated July 9, 1984.

9 This matter was considered during a subcommittee
10 meeting held in Washington, D.C., on July 11, 1984.
11 During the review, we had the benefit of discussions
12 with members of the NRC staff, including NRC inspector,
13 Mr. Isa Yin, representatives of the Pacific Gas and
14 Electric Company, and representatives of the
15 Independent Design Verification Program.

16 We also heard statements from two members of the
17 public.

18 The draft report of the Peer Review Group relates
19 to activities undertaken by the licensee in accordance
20 with the seven conditions imposed by the Commission and
21 the low power license for the Diablo Canyon Nuclear
22 Power Plant Unit 1.

23 The report also addresses issues raised regarding
24 the scope and effectiveness of the IDVP and
25 concerns related to the quality assurance aspects of

1 the work done by the on-site engineering group. The
2 Peer Review Group has concluded that the seven license
3 conditions have been addressed satisfactorily by the
4 licensee, that the previous conclusions of the NRC
5 staff regarding the acceptability of the IDVP remain
6 valid, and that the programmatic issues concerning the
7 on-site engineering group have been resolved.

8 Although Mr. Yin participated to some degree in the
9 reviews made by the Peer Review Group, he has concerns
10 about the extent of the reviews and the judgment of the
11 basis for some of its findings.

12 We believe that Mr. Yin's concerns represent a
13 difference in professional engineering judgment.

14 We believe that the Peer Review Group's review of
15 the licensee activities was adequate for the purpose.

16 We agree with the conclusions reached by the Peer
17 Review Group, that the issues discussed in the draft
18 report have been resolved, and should not prevent
19 operation of the Diablo Canyon Nuclear Power Plant Unit
20 1 at full power.

21 CHAIRMAN PALLADINO: All right. Thank you.

22 MR. EBERSOLE: That is our summation of the
23 problem.

24 CHAIRMAN PALLADINO: All right. Let me suggest,
25 before we open up to questions, that we might hear from

1 Mr. Vollmer, with regard to the evidence of any other
2 differing professional opinion on any aspect of this
3 review and any comments he wishes to make on these two
4 presentations, then open it up to Commission questions.

5 MR. VOLLMER: Mr. Chairman, I can only say, as I
6 indicated earlier, that the report has been sent around
7 to the individuals as recently as this week.

8 Each member of the group was asked to comment on it
9 and asked if we had concurrence. I'm not aware of any
10 difference in the group with respect to the ingredients
11 of the report, or the remarks I made here today.

12 I would ask if there is anybody who may wish to
13 comment, that they would do so. I don't see any.

14 CHAIRMAN PALLADINO: Are all the members of the
15 Peer Review Group here?

16 MR. VOLLMER: All with the exception of Mr.
17 Heishman and Mr. Fleck of ETEC. As I said, they were
18 asked specifically for their comments on the draft
19 report, and this week, they were all delivered a copy
20 of the full report, with the remarks that I made to
21 you, at least the ones I had written down, and asked
22 for their concurrence.

23 I had no comments from anybody.

24 CHAIRMAN PALLADINO: All right. Do you have any
25 further comments?

1 MR. VOLLMER: No, sir.

2 CHAIRMAN PALLADINO: Okay. Thank you. Open to
3 questions from the Commission.

4 COMMISSIONER BERNTHAL: Well, I just wanted to--I
5 believe you touched on this before, Dick, but maybe it
6 bears repeating.

7 Slide ten of our briefing file here is headed
8 "Conclusions of Peer Review Group" and I just wanted to
9 ask a general question, not just at you, but also of
10 whoever may wish to speak for the outside members of
11 Peer Review Group, as to whether that means that the
12 members of your group unanimously or not unanimously, I
13 would like to know, in fact, have reviewed those
14 conclusions and all agree with them?

15 Or what is the situation? Obviously Mr. Yin does
16 not agree with them, but what about the rest?

17 MR. VOLLMER: Again, I asked for their concurrence
18 on the substance of these conclusions, just taken out
19 of the report.

20 COMMISSIONER BERNTHAL: Those conclusions, yes.

21 MR. VOLLMER: And again, I've gotten no feedback to
22 the contrary, and all my communications with them have
23 been positive.

24 I would say that I would ask them to stand if there
25 were any comments to the contrary on these conclusions.

1 My understanding is there are not.

2 MR. DENTON: Mr. Vollmer polled the group and no
3 one had any differing view, but since they're all
4 here, maybe we just ought to be sure that if anyone
5 does feel differently, they can stand up and say so.

6 COMMISSIONER BERNTHAL: Is there anyone that would
7 care to make a comment, particularly if you differ with
8 the general conclusions that have been presented?

9 MR. VOLLMER: I might indicate I asked Mr.
10 Sullivan, who is my technical assistant, to go around
11 and poll everybody after this meeting started, and the
12 results, as I understand, are negative.

13 Nobody has any comment, and they are supportive of
14 the conclusions.

15 COMMISSIONER BERNTHAL: Okay. Thank you.

16 CHAIRMAN PALLADINO: Other questions?

17 COMMISSIONER ASSELSTINE: I have just a couple.
18 One of the things that troubles me a bit about the
19 reviews, both of the staff, the Peer Review Group, and
20 the ACRS, is that it seems to me the sequence of things
21 got a little mixed up.

22 We received on July 30th, a board notification that
23 includes Mr. Yin's detailed inspection report of July
24 26th.

25 That report, it seems to me, reading through it,

1 includes a great deal of detail in terms of Mr. Yin's
2 inspection findings over the past several months.

3 I gather because of the date of that document, that
4 that was not part of the Peer Review Team's review, or
5 before the ACRS at the time that the ACRS provided its
6 advice.

7 Is that correct on both of those scores?

8 MR. VOLLMER: The draft? I recall revision 3, or 2
9 or 3 of his inspection report, really formed the basis
10 for the initiation of the Peer Review Group work.

11 I can't personally answer for how different this
12 particular report is than that version, but when we
13 received this, I sent copies to the members of the
14 Review Group and asked them the areas they were
15 responsible for, to take a look at Isa's final
16 inspection report, to see if it made any difference,
17 any changes to their conclusions.

18 COMMISSIONER ASSELSTINE: Has that review been
19 concluded?

20 MR. VOLLMER: Since I sent it to them, I don't
21 know. I would only have to assume that they received
22 it about probably the beginning of this week, and they
23 were asked to look at it.

24 I would have to ask them individually if they've
25 all looked at it. I don't know.

1 But again, I'd have to ask Isa if the substance of
2 the report was the same in the revision 2 and 3, I
3 believe, that we really initiated our review on.

4 MR. DENTON: I think the differing views,
5 Commissioner, go beyond the factual basis in the
6 report.

7 That report would not settle the issue one way or
8 the other.

9 COMMISSIONER ASSELSTINE: Although if this was the
10 basis, if an earlier version of the inspection report
11 was really the basis for the Peer Review Team's
12 review, as Dick indicated, then it seems to me it would
13 be interesting to know whether the final version
14 differs in material respects from the items that were
15 covered in the earlier version.

16 MR. DENTON: We will look at that, Commissioner,
17 but what we really looked at was the company's response
18 to the seven issues in the license conditions.

19 And the differing views on that were the basis for
20 the principal review.

21 COMMISSIONER ASSELSTINE: I had three questions
22 about the Peer Review Team's agreement or disagreement
23 with three items in Isa's inspection report.

24 One's on page 17, where Isa says, "The staff
25 (meaning him, I think), concluded that the

1 administrative controls imposed on the site engineering
2 activities have been inadequate and ineffective. The
3 specific allegation items were substantiated."

4 Did the Peer Review Team agree with that
5 conclusion, Dick?

6 MR. VOLLMER: As I had indicated, we did find that
7 there were areas that the on-site project engineering
8 group exceeded their procedural latitude in the things
9 that they reviewed.

10 I think they're documented areas where they did not
11 use the right procedures and did not have adequate
12 training, or at least training called for by the
13 quality assurance procedures.

14 Again, we did not probe to verification of that one
15 way or the other. That was taken as a given, and
16 looked rather to go for the end product and see if the
17 end product, to the extent we could tell, the same
18 project again had gone through a PGD review to the
19 extent of the small bore piping calculations and see if
20 the engineering judgments were supportable in that end
21 product, and we found that to be the case.

22 COMMISSIONER ASSELSTINE: Is that basically true
23 for all of Mr. Yin's negative findings in the
24 inspection report that you accepted all those as having
25 been established and as a given?

1 MR. VOLLMER: Well, to some extent, I think in the
2 areas of programmatic review, I think clearly both the
3 audits that Mr. Yin had made, and, as we look back,
4 audits that were made by the IDVP, would bear out the
5 fact that these deficiencies did exist.

6 And so one can't do anything about a past QA
7 deficiency except look at the current adequacy of the
8 engineering and the hardware, and that's what we
9 focused on.

10 We didn't really spend too much time on that, I
11 would have to say.

12 CHAIRMAN PALLADINO: Another question?

13 COMMISSIONER ASSELSTINE: I had one other one that
14 I just wanted to go back and clarify with Dick, from
15 our earlier discussion about the SER.

16 I want to make sure I understand what you found in
17 the audits of the PG&E corrective program. If I
18 understood what you said earlier, when you did all of your
19 audits for the Peer Review effort, you did not find any
20 errors or any discrepancies in the review work that had
21 been done by PG&E or the reanalysis work that had been
22 done.

23 You agreed in every respect with the process that
24 they had used, in doing the review, and the reanalysis,
25 and you agreed in every respect with the conclusions

1 that they had reached.

2 Is that an accurate characterization?

3 MR. DENTON: I think any and all are two words I've
4 stopped using, because in fact...

5 COMMISSIONER ASSELSTINE: In all significant
6 respects.

7 (Laughter.)

8 MR. VOLLMER: We did, again, find an area, for
9 example, which I had indicated in the unsupported
10 braces, where we felt that the licensee's evaluation of
11 that was something that we couldn't support, and again,
12 it was his engineering judgment which may, if you did a
13 sophisticated and detailed calculation, could perhaps
14 be borne out.

15 But we felt and we judged that it was better to go
16 in and fix those. I mean that's three instances out of
17 quite a number of cases.

18 But to answer your question more specifically, I
19 think I'd have to ask Mr. Manoly to come up and correct
20 me if there's any more detail he wants to add.

21 It's my understanding that we found that the
22 licensee did, indeed, follow the procedure that he had
23 agreed, that had staff agreement in its appropriateness
24 to do the review for these calculational packages.

25

1 As I understand it, we did not find him deviating
2 from that. That doesn't mean necessarily that
3 since our audit was like 6%, that there could not have
4 been deficiencies if one had done a more complete
5 audit.

6 COMMISSIONER ASSELSTINE: But at least for the
7 items you audited, by and large, you are satisfied both
8 with the process (inaudible) and with the results
9 (inaudible).

10 MR. VOLLMER: Both with the process and the
11 results, yes, sir.

12 COMMISSIONER ASSELSTINE: As identified. I take
13 it, in at least some areas, the applicant's review
14 process did identify deficiencies that had to be
15 corrected.

16 Can you give me a qualitative sense for how much of
17 those deficiencies were in items that were covered by
18 the IDVP and the IGP?

19 MR. VOLLMER: I'm going to ask Jim Knight to try to
20 address that, since he is ..

21 MR. KNIGHT: Jim Knight, from the staff. When you
22 say qualitative, it becomes difficult to...

23 COMMISSIONER ASSELSTINE: I thought it would be
24 easier than ...

25 MR. KNIGHT: Well, not really, because...

 COMMISSIONER ASSELSTINE: Quantitative is fine, if

1 you can.

2 MR. KNIGHT: Strictly speaking, the IDVP looked
3 explicitly at small bore piping.

4 COMMISSIONER ASSELSTINE: Yes.

5 MR. KNIGHT: In the process that evolved was the
6 IDVP first finding a number of problems and then
7 declaring that either the sample had to be expanded.

8 I'm going way back to the beginning of the IDVP
9 program.

10 COMMISSIONER ASSELSTINE: Yes.

11 MR. KNIGHT: That the sample had to be expanded or
12 at least that was the initial path, and then PG&E
13 deciding that they would start the in essence what
14 would become the Diablo Canyon project and go back and
15 do essentially a complete review.

16 And again, to be careful of words, there was some
17 groups that felt they could, for good reason, could be
18 excluded from an explicit review, but look at all the
19 areas that needed to be looked at.

20 Following the IDVP, again, look at samples of the
21 completed work, and in fact found, again, one might say,
22 some problems.

23 And throughout this whole process, we're in an area
24 where strictly speaking, any deviation from the process
25 or any deviation from a criterion is identified as a

1 deficiency. These deficiencies have broad spectrum of
2 significance.

3 The IDVP looked at the overall process, they looked
4 at the quality of work that was being done, they
5 looked at the nature of the deficiencies they found,
6 and with some exceptions, they did say go back and
7 review.

8 One that has become a classic is the use of certain
9 stress intensification factors. They felt that was too
10 broadly occurring, so they sent the people back to look
11 at those.

12 But when they were through, they were satisfied
13 from the IDVP's mind, that there was an effective
14 engineering job being done, and they so declared, based
15 on our review of activities, the quality of the people
16 they had assigned, the methodology they were using, we
17 concurred with that.

18 A long way to get to your answer, but now we come
19 to the era where...

20 COMMISSIONER ASSELSTINE: Right.

21 MR. KNIGHT: Isa looked at some of the results, our
22 staff looked at the results. I looked at calculation
23 packages that were provided to us by the intervenors.

24 We saw errors. Not judging for the instant that
25 time whether or not that error was significant, there

1 were simply errors, and there were in the sample of
2 packages we have, which I think now could be viewed as
3 being a skewed sample, but in the sample of packages we
4 had, there were enough errors so that we said, in
5 essence, enough.

6 The utility should go back and review all of those
7 calculations, all of that class of calculation, and
8 those were the ones done by computer.

9 So in an attempt to summarize my answer for you,
10 the IDVP had looked in a quantitative sense. I cannot
11 go back and say on support X, Y, Z, the IDVP had looked
12 explicitly at it and then we found errors.

13 COMMISSIONER ASSELSTINE: I guess what I was trying
14 to get a sense for is the original QA program said that
15 the work was done right, and it turns out it wasn't.

16 Then the IDVP program said there are errors, and
17 those errors were corrected.

18 Then some of the allegations and Mr. Yin's
19 inspection identified still other errors. Now we've
20 had another reanalysis.

21 What I'm trying to get a sense for is how many more
22 errors, what kind, and how significant those were that
23 were identified in this last reanalysis, as compared to
24 all the work that had been done prior to that time.

25 MR. DENTON: Let me try to set the perspective on

1 this, Commissioner. What we're talking about are
2 piping supports and snubbers, by and large.

3 And there are two classes of those. There are the
4 types which you can buy off the shelf, so to speak.
5 These are ones that are sold commercially.

6 You've looked in handbooks and you make sure the
7 conditions match up. There are others which have to be
8 designed. The Commission doesn't have detailed
9 regulations on the design of snubbers and supports. Of
10 course, they're governed by codes, so you find a vast
11 diversity in how the code gets translated into a
12 snubber or a hanger.

13 And in fact, the ASME Code has slowly been
14 expanding out to pick up the design of snubbers, and
15 maybe once the Code fully expands out there, some of
16 the differences of opinion about how to treat certain
17 aspects of these might go away.

18 But at the moment, it is an area in which engineers
19 are free to apply their imagination, provided they meet
20 the basic Code principles.

21 I think that's part of the reason that you find
22 these kinds of things going on, and bear in mind these
23 are passive supports.

24 COMMISSIONER ASSELSTINE: Yes.

25 These are not active things that move during normal

1 plant operations. The company's response to 2C2 said
2 that there were some rigid restraints and stiffening of
3 angle members on three small bore pipe supports and
4 there were shimming of certain rigid pipe restraints.

5 So that's the kind of actions that took place based
6 on this result that went here at the end. That doesn't
7 answer the total question, but we're sweeping through
8 with ever finer fishnets, looking for problems in
9 what are passive components.

10 MR. KNIGHT: Perhaps, if I may, to at least share
11 with you the basis for our confidence. When this
12 reverification process started, after we had told the
13 utility, "We feel that it's upon you to go back and
14 look at all of these calculations," and again we had
15 the discussion this morning, it did not necessarily
16 mean recalculate everything.

17 What it did mean was develop a systematic
18 documented procedure, so that both you and the staff
19 can assure that each calculation has been treated and
20 has been treated in the same manner as all the others
21 and that you have, in fact, included in that treatment
22 all of the pertinent matters that need to be considered
23 in judging the acceptability of the calculation.

24 When that process first started, we sent, as a
25 matter of fact, it was Mr. Manoly, early in the game,

1 out to look at the process.

2 Did the process that was being put in place fulfill
3 the requirements as we saw them? Did the people who
4 were being assigned to this job have the prerequisite
5 experience and expertise?

6 At that stage, we found that they had moved the
7 operation to the San Francisco office. These were
8 people who had, we believed, amply demonstrated their
9 capability.

10 There was certainly far tighter control over the
11 quality assurance aspects, they have a very suitable
12 program.

13 Subsequent to that, we made two more audits of
14 these activities, each time looking at a different set of
15 calculations, each time refreshing our own view of the
16 process as it was being conducted, of the people who
17 were involved and the manner in which they were
18 conducting their work.

19 And each of these times we came back fully
20 satisfied that you had a fully competent group of
21 engineers using a well-documented and appropriate
22 procedure and that they were, in fact, making their way
23 through each one of the problems in a systematic way.

24 Another aspect that came up during discussion, did
25 we in fact find that in each and every case did we

1 agree there were in fact, as one would expect from our
2 team, some occasions where they disagreed again.

3 We said, "Well, that might be all right, but we
4 think you should have made a number there instead of
5 making a judgment."

6 Or, "We think instead of just skipping that step
7 and not recording it on the sheet as an intentional
8 thing, you should have written down that the stress in
9 member Z is trivial, and move on."

10 And I would suspect that every time we went back,
11 we'd find something else. It becomes diminimous, I
12 guess is the word, that you'll never, in all
13 likelihood, going to find a separate body of engineers
14 viewing a given approach and coming to a total
15 conclusions, I mean, total agreement.

16 But the substance of our work, the substance of the
17 conclusions, and we certainly have the people here to
18 call me if I misspeak, is that it was a very high
19 quality, very amply-conducted program and it gives us
20 the assurance that we should have that the job is done.

21 COMMISSIONER ASSELSTINE: I wonder if you could
22 describe the kind of program that you think is needed
23 to resolve these concerns to your satisfaction.

24 You mentioned the period of three to five weeks to
25 do that. I wonder if you could just talk about some

1 of the key elements on what you think needs to be done
2 to resolve the concerns to your satisfaction.

3 MR. YIN: Yes. Let me try. First of all, I would
4 like to take another look at the IDVP, because the IDVP
5 is based on the so-called Independent Design
6 Verification Program management plan, Revision 1, dated
7 July 6, '82.

8 Within the plan, it's specifically saying that if
9 you identify the problem, you should assess the reason
10 for the discrepancy (inaudible). And you should also
11 request additional information.

12 It seems to me that so many deficiencies identified
13 in the process of performing the IDVP, and yet there
14 was no attention of expanding this sample size.

15 I think that we should give another look at that
16 issue.

17 The issue is very important because it is going to
18 involve a large bore support, which is going to see a
19 lot more load, a lot more displacement. So I think
20 that issue is very, very crucial.

21 The second thing, I think the hardware problem
22 involving the interference. We so far have not
23 established there is an etiquette for acceptable
24 program in the site.

25 To deal with that issue, that is, if you have large

1 bore piping that is installed to close to the
2 electrical equipments like switch gear panels and cable
3 trays and so on, would that be a problem during the
4 seismic event, would that large bore would swing
5 excessively, that may damage those electrical
6 equipment.

7 There is also a lack of program addressed at
8 whether or not the pipe itself will be damaged by
9 hitting the structures.

10 Furthermore, there is no program addressed as to
11 whether or not the distribution of loads will change
12 that would cause a large overloading on the equipment,
13 such pumps and turbines, which is vital in the
14 operation of the systems.

15 In addition to that, I think it's also important
16 for us to take a look at the revised program, the
17 abolish of quick fixes at the site, the abolish of the
18 design activities that was ongoing even after the
19 problem was identified, for more than six months, and
20 what kind of an impact that has for Unit 2, for
21 instance, because while we're talking about the bottom
22 line with Unit 1, one should not forget there is also
23 Unit 2 going on.

24 So these are the several things I can think of
25 right away, and also I would reevaluate all six of my

1 seven items. You know, (inaudible) in the sample
2 size, for instance, outside of the 15,000 so-called
3 quick fixes, the staff had inspected four hangers.

4 And I think that the sample size is extremely
5 small, and if I would go back and take a look at at
6 least 40 of them.

7 So these are the kinds of things I would look at.
8 (Inaudible) up the sample size, do more in depth
9 review, and above all, I would document everything I
10 see, (inaudible) and then draw my conclusion, not just
11 draw the conclusion based on my personal feelings, but
12 based on the data that I obtained during my review.

13 CHAIRMAN PALLADINO: Isa, do you get the
14 impression that the individuals on the Peer Review
15 Group did not keep track of the data so that they had a
16 basis for a decision?

17 Are you saying that they just went on feeling? I'm
18 not quite clear what you're implying.

19 MR. YIN: The items, as you see my testimony, item
20 one and seven was done within about a week and then a
21 follow up for a couple of visits, in none of them I
22 participate, so I don't know what they have reviewed.

23 Items two to six, which is five items, is all
24 closed out within less than a week. So I think that
25 was lack of time to look at it in detail.

1 To me, you have set a schedule and tried to meet
2 the schedule. Of course, you have to work and chose a
3 limit for the time.

4 But it seems to me that we should not really be
5 bound by the scheduling restraint. We have identified
6 problems, we should look into it deeper and follow in
7 our scope of inspection.

8 COMMISSIONER ASSELSTINE: Dick, let me ask you
9 about the quick fix items that Isa just mentioned. In
10 fact, is that right that you look at four out of 15,000
11 items?

12 I'm no engineer, but that sure--if that's right,
13 that sure seems like a small sample size to me.

14 MR. VOLLMER: Let me ask Bob Bosnak to tell you
15 what went on in that area. It's a very important area.
16 Bob?

17 MR. BOSNAK: I'm Bob Bosnak. We looked at about 50
18 of the items, and we went down to the site and we
19 singled out some 4 to 5 to look at, and we looked at
20 actually more, but we documented, I think, the four
21 that Isa is pointing out.

22 But at PG&E offices, we did look at at least 50 of
23 what we call the TC, tolerance clarification packages.

24 We also looked at the Diablo problem packages.
25 There was another (inaudible) in license condition six. We

1 looked at about 25 of those. And this did not take
2 place over a period of a week; we were at the site for
3 a period of a week and in the offices in San Francisco.

4 But there were several weeks before that and
5 several weeks after that while we were going through
6 and drawing our conclusions, phone calls, and other
7 meetings with PG&E to make sure we understood what we
8 had.

9 COMMISSIONER ASSELSTINE: You said you looked at 50
10 items, but you documented four?

11 MR. BOSNAK: We documented four of the ones--we
12 actually documented more, but if you look in the
13 supplement, supplement 25, you'll see approximately 50
14 of the ones that we did review.

15 The four that Isa mentions were the ones that we
16 looked at at the site. We actually look at others
17 which we didn't document, but these were ones that were
18 brought to our attention, in fact, the night before one
19 of the meetings that we had, transcribed meetings, with
20 one of the allegers.

21 CHAIRMAN PALLADINO: I wonder if I could
22 understand. You're saying you've looked at the
23 calculational package to see whether or not they had
24 adequate clearance under design conditions.

25 MR. BOSNAK: We looked at calculational packages to

1 make sure that we understood what was there and that
2 the changes that were made were correctly made, that
3 they were analyzed properly.

4 Then when we went to the site, we looked to see
5 that they did represent as-built conditions, and that
6 was what we're talking about, about four or five.

7 We didn't really have, during the one day that we
8 were there, a longer period available, but we felt that
9 was sufficient.

10 If we found any that didn't agree with the as-built
11 packages, the calculational package, we felt we would
12 have to go back, but we didn't. We didn't find any of
13 those situations.

14 CHAIRMAN PALLADINO: So you looked at the as-built
15 clearance and compared it with ...

16 MR. BOSNAK: Some supports were actually changed
17 in configuration. We looked to see that, to see if
18 that was true, and that the package that we saw
19 represented the as-built condition, and that was
20 exactly what we were looking for when we went to the
21 site.

22 COMMISSIONER ASSELSTINE: How much were time
23 constraints a factor in terms of deciding how much to
24 look at, how much to look at actually in the plant,
25 which ones to document, how many items to document?

1 Was that at all a factor, or did you have free
2 reign to do whatever you wanted, and you just didn't
3 feel like you needed it documented?

4 MR. BOSNAK: If we had wanted to go back and spend
5 several more days at the site, we could have, but we
6 didn't feel that was necessary.

7 MR. DENTON: I gave this group top priority.

8 CHAIRMAN PALLADINO: Wait. Just one question. Did
9 PG&E check the as-built clearances, or did some
10 subcontractor check the as-built clearances more than
11 just the case that you spot-checked?

12 MR. BOSNAK: No, this was done by the company. All
13 of these were checked by the company.

14 CHAIRMAN PALLADINO: But was it checked by the
15 company? That's what I'm asking.

16 MR. BOSNAK: Yes, they were.

17 CHAIRMAN PALLADINO: So that's consistent with the
18 way we do many things.

19 The company does the work and we do spot-checking,
20 not only the calculations but also ...

21 MR. BOSNAK: While we're at the site, we actually
22 check these ourselves, the several that we did. This
23 was the group itself. But all the rest were checked by
24 the company.

25 COMMISSIONER BERNTHAL: Let's see...excuse me.

1 CHAIRMAN PALLADINO: That's important. The
2 impression I was getting was that nobody had checked
3 these.

4 MR. BOSNAK: No, that's not correct.

5 CHAIRMAN PALLADINO: Okay.

6 COMMISSIONER BERNTHAL: Let me see if I understand,
7 though, Mr. Yin. You're not disputing that those
8 particular ones may have turned out to be correct.

9 You're disputing the sample size primarily, is that
10 the point?

11 MR. YIN: Let me clarify. There are really
12 basically two issues involved, and we seem to be
13 mixing it up.

14 The first issue involving whether or not those
15 quickly fix documents have been reviewed by the Bechtel
16 home office engineers.

17 That was one issue. And the Peer Review Team had
18 picked 50 to review, and they have identified, indeed,
19 those have been reviewed. The second issue is whether
20 or not the as-built drawing that was sent over to the
21 home office indeed represents the hardware condition at
22 the site. And based on the allegation made during the
23 May 22nd, they have showed us that indeed there was
24 (inaudible) some other things that was not included
25

1 into the as-built package. So I think it's important
2 to assure ourselves, based on a larger sample size,
3 that the people, that the engineer received at the
4 Bechtel home office, indeed representing the real thing
5 at the site, and I don't think four is representative
6 for the whole picture.

7 CHAIRMAN PALLADINO: But that was an audit to see
8 whether or not PG&E had done its job right.

9 MR. YIN: That's correct. So far, what we have
10 done is all auditing of PG&E's effort, everything
11 they're supposed to do.

12 We just audit them to see if they have done it
13 correctly based on procedures, and whether or not even
14 the procedure is adequate itself.

15 MR. EBERSOLE: I'd like to comment on one of the
16 items that Isa mentioned, the abandoned bolt holes and
17 abandoned anchor bolts are one of the things that was
18 brought to our attention.

19 And this is something that is not normally shown on
20 as-builts. It was checked by our structural people as
21 well.

22 But we did record that as a result of the meeting,
23 and we did look into it. And this particular item is
24 something that's not normally recorded.

25 MR. YIN: Well, the abandoned bolt holes and also

1 added-on (inaudible) additional (inaudible) welding on
2 the existing (inaudible) plane, that could have effect
3 on the base plate itself, all these things should be
4 included, should be a factor.

5 Even some of the welding configuration was
6 different, based on the material the allegor presented
7 during the evening meeting on May 22nd.

8 So I think it's important that we look even more
9 and deeper in that area.

10 MR. EBERSOLE: We did look at that particular
11 support, we looked at the change in material of the
12 anchor bolt, and we saw that the calculations were
13 revised.

14 So we felt we followed through on those particular
15 things. We noticed wing plates on support base plates
16 that were properly recorded in the as-built drawings.

17 So again, for the things that we looked at, we had
18 no problems.

19 CHAIRMAN PALLADINO: Other questions by
20 commissioners?

21 COMMISSIONER BERNTHAL: Let me ask a further
22 question on the statistical sampling issue that Jim has
23 raised.

24 I hope I'm not asking you to be repetitive here,
25 but I'm still sitting here, whether it's four that you

1 checked carefully, or whether even if it's 50 out of
2 15,000, I guess it was, can you give an argument that
3 in fact one should not assume strictly statistical
4 sampling here?

5 I presume from what you've said that these were
6 selected based on some sense of, first of all, from
7 what Mr. Yin said, and I presume other reasons which
8 maybe you can inform me about, on where you thought you
9 might find problems.

10 Or are all 15,000 equally suspect, and was it truly
11 a random sampling?

12 MR. BOSNAK: Well, we looked at some because they
13 were singled out to us by allegers. We looked at
14 others just based on a random sampling.

15 We went beyond what the company looked at. They
16 looked at 2,000 out of the 15,000. We look at several
17 other, and what we were trying to determine was whether
18 or not there were any things that were significant.

19 If we had a fix that was insignificant, in other
20 words, just a minor clearance problem, there's no
21 problem.

22 But where a design base plate or design support
23 configuration is changed, we wanted to be sure that
24 that was, in fact, gone through and reanalyzed.

25 And all of these things were reanalyzed. That's

1 the point that, when I mentioned the 2,000, the 2,000
2 were looked at to see if anything, you might say,
3 slipped through the program and was something that
4 shouldn't have been done, shouldn't have been done by
5 the quick fix program.

6 And yes, we did find that. That was one of our
7 findings. There were things that should not have been
8 quickly fixed; they should have been done by an
9 engineering field change, but they were not.

10 So then the question is, were they all analyzed.
11 Yes, they were, and that's the total of them, not 2,000
12 out of 15,000.

13 COMMISSIONER ASSELSTINE: All 15,000 were looked
14 at?

15 MR. BOSNAK: Correct.

16 COMMISSIONER BERNTHAL: All 15,000 were looked at.
17 And now I am not getting...

18 COMMISSIONER ASSELSTINE: I don't understand the
19 2,000.

20 CHAIRMAN PALLADINO: I didn't understand that. I
21 was going to come back with you.

22 COMMISSIONER BERNTHAL: Was yours a second order
23 look at the 2,000 that were looked at by the company?

24 MR. BOSNAK: We looked at the 2,000, and then we
25 looked at some additional ones that--again, they were

1 trying to identify which slipped through the TC net,
2 which should not have been done by the quick fix
3 program.

4 CHAIRMAN PALLADINO: Could you explain the 2,000
5 and 15,000 again?

6 COMMISSIONER ASSELSTINE: What did PG&E do for
7 the full 15,000 as compared to the 2,000?

8 MR. BOSNAK: Let me go back to supplement 25.
9 There were approximately 15,000 TCs. The licensee
10 re-reviewed 2,000 of those 15,000.

11 This is what he did. And in order to determine
12 which of those contained what I'd call significant
13 design changes that shouldn't have been in the TC
14 program.

15 With those, he made the determination that the as-
16 builds and the calculations agree. We looked at 50
17 TCs, and not necessarily out of the 2,000 that he
18 re-reviewed.

19 COMMISSIONER ASSELSTINE: Why wasn't the licensee
20 required to look at all 15,000?

21 MR. BOSNAK: He was to determine by the license
22 condition which one of those, which of those exceeded
23 the--which deviated from the program scope.

24 COMMISSIONER ASSELSTINE: So 2,000 of the 15,000
25 deviated from the program scope.

1 MR. BOSNAK: No. No, he looked at 2,000, and he
2 found that there were, I think, he found somewhat in
3 the order of 40 or 50 of those that deviated from the
4 program scope in significant design changes.

5 We looked at additional samples and we found others
6 that deviated from the program scope, but the bottom
7 line was that irrespective of whether they deviated,
8 that was a finding of the group.

9 They did deviate from their program, and that was
10 one of the reasons that the company terminated the
11 program.

12 But all of these things that had significant
13 changes were checked to see if the as-built condition
14 and the design package were in agreement, and they
15 were.

16 These were on the significant changes, and we
17 looked, as we said, at 50. This is the task group
18 itself.

19 COMMISSIONER BERNTHAL: So the licensee looked at
20 2,000, found 40 or 50 deviations from the scope.

21 CHAIRMAN PALLADINO: What do you mean by "looked
22 at"? Excuse me. I don't understand what he means by
23 the word "look at." That's my problem.

24 COMMISSIONER ASSELSTINE: Re-review was his word.

25 MR. BOSNAK: This was a rather large program to

1 decide...

2 CHAIRMAN PALLADINO: Are you looking at the
3 equipment, are you looking at calculations, are you
4 looking at analysis method?

5 Then I can follow.

6 COMMISSIONER ASSELSTINE: Or both?

7 CHAIRMAN PALLADINO: Or both.

8 MR. BOSNAK: Both.

9 CHAIRMAN PALLADINO: Well, I think we ought to--if
10 we're going to go in this depth, we ought to understand
11 it well enough so that we can use it in our judgment.

12 MR. BOSNAK: If you look at page 6-9, if you'd like
13 to get into the depth that you're indicating, Table 6-1
14 is the summary of the company's review findings.

15 It gives you an idea of just exactly the type of
16 differences that they found, and whether or not they
17 were significant.

18 We talked to some of the people that made the
19 decisions on whether they were significant or not.

20 They depend on whether or not a support base plate
21 or a support configuration was changed so that the
22 original analysis no longer applied.

23 For instance, weld sizes may have changed. The
24 dimension of the base plate itself may have changed, so
25 that the original calculations are no longer valid.

1 That was the significant change. If it was a minor
2 move, a very small change in just the location of the
3 support, it was not a significant item. That was
4 properly part of the program scope.

5 COMMISSIONER BERNTHAL: Let me finish my question,
6 if I may, Jim, so I understand what we're talking about
7 here.

8 The company looked at 2,000. They found 40 or
9 50...

10 MR. BOSNAK: That should not have been in the TC
11 program.

12 COMMISSIONER BERNTHAL: Right.

13 MR. BOSNAK: That was the conclusion.

14 COMMISSIONER BERNTHAL: And you looked at an
15 additional 50, is that what you told us?

16 MR. BOSNAK: We looked at a total of 50. Some of
17 those were of the sample of the 2,000, and some were
18 not.

19 Some went beyond there, and we found also in the
20 ones that we looked at, things that were significant.

21 COMMISSIONER BERNTHAL: Four or five, you said?

22 MR. BOSNAK: No. Four or five were the ones that
23 we looked at at the site.

24 COMMISSIONER BERNTHAL: I'm sorry.

25 MR. BOSNAK: We looked at 50, and we found, I'd

1 say, approximately 20% of the 50 were from things that
2 the company did not look at.

3 And the other 80% were a re-review of what the
4 company did.

5 COMMISSIONER BERNTHAL: Then I guess I have to go
6 back and ask the same question that Jim asked, since it
7 seems like your finding rate is about the same for your
8 sample as for the company's sample.

9 Why do you stop at 2,000? Maybe I'm missing the
10 point here.

11 COMMISSIONER ASSELSTINE: Yeah, I guess I still
12 don't have a feel for what the criterion was for
13 selecting the 2,000 and why it was viewed as
14 appropriate for the company only to look at 2,000 as
15 opposed to some larger sample.

16 MR. VOLLMER: The company looked at a relatively
17 large sample, to 2,000, to see which of those did not
18 properly fix in the program guidelines that were set up
19 for this so-called quick fix (inaudible).

20 They found a certain amount. We took another
21 sample, we found a certain amount.

22 The key point here is, that seems to be getting
23 lost, is that in reviewing in detail these packages
24 that accompany each of these (inaudible) changes, we
25 did not find technical problems with them, despite

1 whether or not they were done properly by the program
2 or improperly.

3 The point is that the engineering and the end
4 product of all that we sampled--correct me if I'm
5 wrong, Bob--was adequate engineering, had been used,
6 and the margins of safety required by code and
7 regulations had been preserved.

8 So irrespective of which way, which direction those
9 particular things took, when we looked at the bottom
10 line engineering, if you will, we found that to be
11 adequate.

12 COMMISSIONER ASSELSTINE: That's useful
13 information. I guess I'm still wondering, though, why
14 at the outset, before we knew all of that, we told them
15 for the small bore piping calculations, we want you to
16 do 100% re-review, for quick fix items, you only have
17 to look at a sample of 2,000 out of 15,000, which I
18 gather...

19 MR. BOSNAK: For small bore, there were
20 calculational errors found by the staff. That was
21 about a 20% error rate, so we felt that it was
22 advisable to go back and redo those.

23 Here we did not find those kinds of things. In the
24 sample that the staff did of the small bore piping,
25 that was the error rate that we found.

1 And we felt that was not good enough. Here we
2 didn't find it.

3 COMMISSIONER ASSELSTINE: In the other aspects of
4 the other elements of the Peer Review Group effort, is
5 there a similar judgment made that in other instances
6 other than these small bore calculations we did not
7 require the company to go back and do 100% re-review?

8 MR. BOSNAK: Yes, I would say so. One of the
9 questions that you had prior to this, Commissioner, was
10 with respect to the IDVP.

11 And if you would read--and I think this might
12 answer your question--on page 14, we did mention here,
13 this was one of the findings that the IDVP detected the
14 kind of random input errors of the kind which prompted
15 license condition number one.

16 They did find these kinds of errors and they again
17 used their judgment and decided that it was not
18 necessary to go back and redo these.

19 They saw that they had a relatively small impact on
20 the plant, the hardware in the plant. The only thing
21 that we did mention, we did note that there was no
22 mention in any of the IDRs of license condition seven,
23 and we felt that was kind of a minor deficiency, that
24 later also had no effect.

25 So the IDVP did find these kinds of things that

1 were found by the staff, and they used their judgment
2 as well.

3 COMMISSIONER ASSELSTINE: I have a question for
4 Jesse.

5 MR. EBERSOLE: Yes.

6 COMMISSIONER ASSELSTINE: A little bit on a little
7 different subject. Jesse, when you all sent us your
8 April 9th letter, you and two of your colleagues had
9 included an additional view, where you said, "Prior to
10 an ascent in power above 5%, the NRC staff should
11 prepare a document discussing in considerable detail
12 how the various relevant issues raised by its
13 inspectors and others had been handled.

14 The NRC staff should also perform a careful
15 examination of a selected sample of actual construction
16 details to help assure that the appropriate quality has
17 been accomplished.

18 In your view, does the Peer Review report do that?

19 MR. EBERSOLE: Yes, in a composite sense, we think
20 it does that.

21 CHAIRMAN PALLADINO: Okay. Thank you. Well, I'm
22 going to thank Mr. Yin and thank Mr. Ebersole. I
23 think this question of where we come down on differing
24 professional opinion is something that each
25 commissioner is going to have to give careful

1 consideration.

2 COMMISSIONER ROBERTS: Mr. Chairman, could I--I
3 hate to knit pick, but I think the ACRS quite
4 accurately in their letter said, "We believe that Mr.
5 Yin's concerns represent a difference in professional
6 engineering judgment."

7 By the NRC manual, a difference in professional
8 opinion is a well-defined procedure, and that's not
9 what we're dealing with.

10 And my pointing that out in no way denigrates your
11 concerns or your sincerity, and we appreciate your
12 letting us have your views.

13 But this is not a differing professional opinion.
14 It's a difference of engineering judgment.

15 The NRC manual is quite specific about the
16 procedures for differing professional opinion.

17 CHAIRMAN PALLADINO: Well, maybe I used the wrong
18 word, but my intent was to recognize...

19 COMMISSIONER ROBERTS: I understand.

20 CHAIRMAN PALLADINO: ...this, and point out that
21 it's a fact that each commissioner is going to have to
22 consider in his judgment. And again, that's where it
23 comes down to.

24 COMMISSIONER ASSELSTINE: Joe, I would just join
25 you in the comment you made at the outset, that I think

1 I certainly agree with you.

2 I appreciate the efforts that Mr. Yin has made to
3 bring these items to our attention, and I think he was
4 instrumental in identifying the matters of significant
5 concern that I think need to be considered by all of us
6 and resolved.

7 CHAIRMAN PALLADINO: Okay.

8 MR. EBERSOLE: I might add that we live with this
9 all the time. It just doesn't get as explicit as this
10 has.

11 CHAIRMAN PALLADINO: Okay. Well, thank you,
12 gentlemen. Now I wonder if we might proceed with the
13 rest of the staff briefing.

14 MR. DENTON: Let me go back to Darrell Eisenhut.
15 We only have a few topics left, and we'll try to
16 summarize those.

17 MR. EISENHUT: If I may go to slide number eleven,
18 this is a discussion of the Seismic Design Reevaluation
19 Program.

20 There has been considerable discussion over the
21 last few months on this issue. You will recall we
22 discussed this at some length in the March...

23 CHAIRMAN PALLADINO: I'm sorry, what slide are we
24 on? Thank you.

25 MR. EISENHUT: On slide 11, Seismic Design Basis

1 Reevaluation Program, we discussed this in some depth
2 during the March and April Commission meetings.

3 You will recall at that time that we put in place in
4 the 5% license, a short license condition, which
5 basically requires the reevaluation program.

6 The Commission asked us to go back, consider and
7 develop a more detailed license condition after
8 consultation with the ACRS.

9 That process has been completed, we do have a
10 letter from the ACRS which basically endorses a
11 proposed license condition as included in the proposed
12 full power license amendment, amendment ten, which was
13 sent down to the Commission.

14 I would just--slide 12 enumerates that, so I'd like
15 to skip that in the interest of time and go on to slide 13.

16 MR. DENTON: I think in slide 13, the regional
17 administrator has covered what he's done in looking at
18 the performance.

19 Unless you have questions about readiness, I think
20 that's been covered by Jack Martin.

21 MR. EISENHUT: I was going to say the same thing
22 holds for 13, 14, and 15. Basically we're summarizing
23 the overall readiness (Inaudible) quality and overall
24 status of the plant, the basis of the inspections, a
25 number of third party reviews, etc.

1 We believe those have now reached to the end of the
2 process, to our satisfaction.

3 Slide 16 and 17 are summary slides that are put
4 together by ELD. I propose not going through those
5 also in depth.

6 They basically summarize the entire hearing status
7 as we understand it. They're included here for
8 completeness.

9 We again, from that standpoint, don't see any issue
10 that needs to further be discussed.

11 If I could go to slide 18, then, with the issuance
12 of the 5% license, which reinstated the suspension,
13 there were two license conditions requiring additional
14 work prior to going above 5%.

15 Those are the items under Item A. those two
16 license conditions have been satisfied and are
17 addressed in two safety evaluations, supplements number
18 24 and 25.

19 The full power license amendment that is before the
20 Commission is relatively straightforward in this case.
21 There are seven items that were changed by this
22 amendment.

23 They basically are in the mode of an update. The
24 technical specifications, there were some minor changes
25 that had to be put in place.

1 The fire protection system question simply refers,
2 in this case, to an SSER-23. And that is literally the
3 change that was made in the license condition to
4 incorporate reference to another SSER.

5 COMMISSIONER ASSELSTINE: Darrel, I had a question
6 about that one. I looked through it. It seemed like
7 there were an awful lot of deviations for this plant on
8 fire protection.

9 Is my sense right that there is an extraordinary
10 number of deviations on this plant? Appendix R doesn't
11 directly apply, but in terms of a comparison of the
12 plant to Appendix R, there are a large number of items
13 where they don't meet?

14 MR. VOLLMER: I think, to give you a little bit of
15 history on that, the plant had been reviewed in
16 accordance with the standard review plan requirements,
17 probably in 1978, which, at that time, had the standard
18 review plan requirements for fire protection, which
19 generally embodied at least the fire protection
20 features of Appendix R.

21 And they were given an acceptable write up by the
22 staff on that. Some years later, a couple of years
23 ago, then, with Appendix R, as we did with all NTOLs,
24 we went back with the feeling that we should make sure
25 that all plants consider any deviations that they might

1 have from Appendix R, even though it's not applicable
2 for the recent OLs.

3 We went back and asked them to re-look at their plant,
4 and came up with these deviations.

5 Now to answer your question specifically, I've
6 asked this question of my staff. They feel that this
7 particular plant is in good shape from a fire
8 protection point of view, and that the deviations that
9 they have are not unusual for a plant of this vintage
10 and that they have evaluated all of the differences
11 between the plant configuration in Appendix R and feel
12 that appropriate measures have been taken to
13 accommodate any of the Appendix R deficiencies.

14 COMMISSIONER ASSELSTINE: Good.

15 MR. EISENHUT: I should also point out that those
16 items, SSER-23, there were some six or eight items
17 listed.

18 We very recently have gotten a letter from the
19 utility that those items are now in place.

20 COMMISSIONER ASSELSTINE: Good.

21 MR. EISENHUT: And have been completed, in fact,
22 the modifications. Item four under the license
23 conditions was supplement under NUREG 737 on dates for
24 emergency response capability facilities.

25 Five is the item on seismic design verification,

1 seismic design reevaluation, excuse me. Six is to
2 update the license in accordance with 50.73. It's a
3 clarification.

4 The expiration date change reflects the fact that
5 this plant is now, I think, it's changed to 2008.

6 There are three new license conditions. These
7 three new license conditions at the bottom of the page
8 were two generic issues that had been undergoing
9 development during the period of time since the low
10 power license was issued.

11 And as you will recall, we now have a standard
12 condition reference 44 CFR 350 for emergency
13 preparedness.

14 It's our view that this license amendment does not
15 involve any exemptions to the regulations by issuing
16 amendment ten of the license.

17 One last matter I would mention is that we do have
18 before us a number of 2.206 petitions. First, we had a
19 petition that was submitted in February, which was the
20 remedy that was requested was not issuing a 5% license.

21 Then we had a second 2.206 submitted in May with a
22 number of supplements to that up including, I believe,
23 we've received four 2.206 petitions in the last four or
24 five days.

25 The staff will be looking at those and processing

1 them. Up to this point, we see nothing in those 2.206
2 petitions that should stand in the way of a decision.

3 Basically, that is the last item that we propose.

4 MR. DENTON: This concludes our planned briefing,
5 Mr. Chairman. This review of these design errors that
6 were detected several years ago have consumed
7 considerable amounts of staff man power and resources.

8 We've made the applicant do an awful lot of
9 checking. We do conclude that it does meet the
10 Commission regulations.

11 COMMISSIONER BERNTHAL: May I just ask one question
12 about the seismic design basis reevaluation, and make
13 this clear for the record?

14 Is it a statement of fact, then, as it exists now
15 that the staff concurs and the utility's seismic design
16 reevaluation, we've received a document just very
17 recently, I guess, from the staff.

18 Could you summarize that for me?

19 CHAIRMAN PALLADINO: That would...

20 MR. DENTON: We've had the program under
21 development and what we were proposing was a license
22 condition that would require a program.

23 COMMISSIONER BERNTHAL: Yes.

24 MR. DENTON: And we have a license condition that
25 we're satisfied with.

1 MR. EISENHUT: And that license condition requires
2 the submittal of a program for a review by January 30,
3 1985.

4 MR. DENTON: Yes, certain elements in the program.

5 CHAIRMAN PALLADINO: Could I ask the staff to make
6 its overall recommendation with regard to power
7 ascension and going up to full power for this plant?

8 MR. DENTON: I think we find that the plant does
9 meet the Commission's regulations for power ascension
10 and full power operation.

11 CHAIRMAN PALLADINO: And do you have a
12 recommendation on what we do?

13 MR. DENTON: Well, I'd recommend issuing a license,
14 but we've stopped making recommendations because I
15 don't want to appear to be an advocate for operations.

16 (Laughter.)

17 I want to just assert that we have done the review,
18 and we think it fulfills the regulations.

19 CHAIRMAN PALLADINO: Okay. That's fair enough.

20 COMMISSIONER ASSELSTINE: I have one question, Joe.

21 CHAIRMAN PALLADINO: Okay. Of the staff?

22 COMMISSIONER ASSELSTINE: Yes.

23 CHAIRMAN PALLADINO: Go ahead.

24 COMMISSIONER ASSELSTINE: I think it's just a
25 clarification on supplement 24, page 3-2, there's a

1 paragraph on environmental qualification of electrical
2 equipment.

3 Does that paragraph basically mean that they are in
4 compliance with 50.49? It didn't say so explicitly. I
5 thought that was the gist of it, but I just want to
6 make sure.

7 MR. DENTON: That's page 3-2?

8 COMMISSIONER ASSELSTINE: 3-2, yes.

9 MR. DENTON: The answer to that would be yes, they
10 are in compliance with 50.49.

11 COMMISSIONER ASSELSTINE: Okay.

12 CHAIRMAN PALLADINO: Now I am aware of at least two
13 more topics that should be addressed. One, we have the
14 report from OIA on investigations associated with one
15 of the 2.206 petitions. And I think we ought to hear
16 that report.

17 And then I would like OGC to bring us up to date on
18 the status of consideration of earthquakes on emergency
19 preparedness.

20 But unless the commissioners have some other
21 thoughts, I would propose at this time to call on Mr.
22 George Messenger of OIA to report on the 2.206
23 petition that they investigated.

24 MR. MESSENGER: Mr. Chairman, I have with me the
25 investigator, Ronald Smith.

1 CHAIRMAN PALLADINO: Could you speak into the mike?

2 MR. MESSENGER: I have with the me investigator,
3 Ronald Smith, should you have any questions that
4 possibly I couldn't answer.

5 The Office of Inspector and Auditor conducted an
6 investigation into allegations against seven NRC
7 employees which was initiated June 14, 1984 as a result
8 of two petitions dated April 12 and May 3, 1984,
9 submitted by Thomas Devine, Government Accountability
10 Project GAP, pursuant to 10 CFR 2.206.

11 The petitions contained two general allegations,
12 whether there have been misleading or material false
13 statements by the NRC staff to the Commission during
14 the March 19, 26, 27, or April 13, 1984 briefings, or
15 in Supplemental Safety Evaluation Reports, SSER 21,
16 December '83 or SSER 22, March '84, and the causes of
17 QA breakdown within the NRC staff responsible for
18 Diablo Canyon.

19 When interviewed concerning these two general
20 allegations, Thomas Devine provided information which
21 formed the basis for 16 allegations.

22 Fourteen of the allegations were that individual
23 NRC employees, on different occasions, either by
24 statement or omission, falsely advised the
25 commissioners on various issues of import to the

1 commissioners' decision on low power testing at Diablo
2 Canyon.

3 Two allegations were against the NRC staff for,
4 one, an alleged false statement in NUREG 0675, which is
5 SSER 22, and for, two, failing to give sufficiently
6 complete an accurate notice to the Atomic Safety and
7 Licensing Appeal Board of a particular issue.

8 None of the allegations as submitted were
9 substantiated by this investigation. A report on the
10 results of the investigation was completed late August
11 1, 1984.

12 On July 24, 1984, Thomas Devine declared that he
13 was withdrawing all allegations and would follow upon
14 that declaration in writing.

15 His reasons for withdrawal were set out in a letter
16 to the Commission dated July 25, 1984.

17 The copy of this letter was provided to OIA by the
18 Commission on July 30, 1984. This matter is addressed
19 under separate cover to the Commission.

20 That completes my statement.

21 CHAIRMAN PALLADINO: Thank you. In this letter of
22 July 25th, the allegation was made, I guess it was
23 signed by Mr. Devine, saying, for example, the staff
24 took credit for interviews with whistleblowers who have
25 never met the staff.

1 Can you comment on that?

2 MR. SMITH: Not without reviewing the reports, sir,
3 because the allegation, I'd have to try to figure out
4 which allegation he's referring to there, because,
5 again, he's taken--Mr. Devine has taken information
6 that--oh, I'm sorry.

7 I misunderstood your question. You mean as to me?
8 I thought you were talking about the staff, because
9 similar allegations were made to the staff.

10 CHAIRMAN PALLADINO: No.

11 MR. SMITH: All right.

12 CHAIRMAN PALLADINO: This was an allegation made
13 about you.

14 MR. SMITH: Yes. The basis for the comment was
15 that, as I understand it, was that Mr. Devine wanted me
16 to talk to the same people who had provided him
17 information which he also provided me.

18 When he apprised me of this, I said, "Do they have
19 or do you have any information which you have not
20 already provided to me?"

21 I never got a response that such was the case,
22 which led to my response that, "If you are just having
23 me talk to these people to get the same information I
24 already have, there is really no reason to talk to
25 them."

1 Because basically whether I get the information
2 firsthand from the individual or secondhand through him
3 as their counsel, is really irrelevant, because it's
4 the information that's of import to the investigation.

5 CHAIRMAN PALLADINO: Do you feel you've looked into
6 the necessary information, the available information, to
7 make sure that you had an adequate, reasonable finding?

8 MR. SMITH: Based on the allegations which Mr.
9 Devine and I, together, drafted and which he
10 subsequently modified, and the information which he
11 provided to me, I can say with all professional
12 confidence that, yes, that's true.

13 CHAIRMAN PALLADINO: Other questions for OIA?

14 COMMISSIONER ASSELSTINE: Ron, I gather you had
15 concluded, though, that some of these allegations were
16 vague and imprecise.

17 That suggests in my mind that you'd want to go back
18 to the people that had provided the allegations and
19 resolve any vagueness that you think might be
20 associated with the allegations, just to make sure you
21 fully understand exactly what they're telling you.

22 I wonder if you could address that point a bit? I
23 know you did in your August 1st memo, but I guess I
24 didn't fully understand your comment.

25 MR. SMITH: Imprecise might be the word to put more

1 emphasis on, rather than vague. I suppose vague in
2 this context was more conclusiary than descriptive.

3 By imprecise, some of the allegations were framed
4 in terms, which upon investigation, either the
5 reference in the transcript, for instance, was taken
6 out of context, and therefore was not correct in the
7 way the allegations framed the particular event to have
8 occurred.

9 At least as I read the transcript and as I
10 understood the explanation of the events as provided
11 particularly by the people who answered the specific
12 allegations against them, the second one that comes
13 quickly to mind is that of imprecise and vague would
14 be, there was an allegation concerning whether some
15 discussions of a particular individual's or
16 individuals' affidavit and information he had provided
17 had been discussed in IE report page 8337, I believe.

18 In talking to the individual associated with 8337,
19 that was true. And the reason that was true is because
20 that particular report covered different matters, and
21 intentionally was not included in that report.

22 So I guess that is an example that it was vague in
23 the sense it was a general comment that something
24 wasn't included in a report.

25 It was imprecise, also, as it turned out, because

1 it intentionally was not included.

2 COMMISSIONER ASSELSTINE: Is it fair to say that
3 the allegations themselves were all clear enough so
4 that you fully understood and there weren't any
5 questions in your mind about what they were pointing
6 to, but rather, once you looked at it, you didn't find
7 that those allegations were substantiated?

8 MR. SMITH: I've been thinking this morning and
9 this afternoon and hearing some of the soliloquy going
10 on earlier today, back to my days as a prosecutor.

11 And to be quite honest, when I finished with the
12 allegations, I could, not to be too facetious, found
13 myself salivating again that maybe I had a shot at a
14 good criminal charge in many of the cases.

15 So yes, I was satisfied I understood them. I must
16 qualify that in that in some discussions yesterday, we
17 have a procedure in our office where, as an independent
18 review, in one particular allegation regarding whether
19 there was an agreement by the NRC that Mr. Yin would be
20 the one to whom GAP allegers would talk, it was my
21 clear understanding, and I think an objective reading
22 of both the allegation and the evidence I had, that the
23 thrust of Mr. Devine's allegation was that there had
24 been a specific agreement with the NRC that Mr. Yin
25 would be the person to talk to the allegers.

1 When the transcript is examined, in fact, Mr.
2 Devine did ask that that be the case, whereupon Mr. Yin
3 himself responded that, "No, I shouldn't receive these
4 myself, but as part of a group."

5 Now it's now my understanding, and I have not
6 talked to Mr. Devine to confirm this, but I understand,
7 as a matter, that he may be also saying that that was
8 the agreement.

9 In other words, in answering the question, "Can we
10 talk to Yin?"--I know this is rather complicated, but
11 it's the best I could work it out--when the NRC
12 answered, "No, not to him alone," and then he answered,
13 "As part of a group," then it's possible that Mr.
14 Devine is inferring, and I think it would have to be an
15 inference, that that response constituted agreement
16 that Mr. Yin would thereafter be involved in all
17 interviews.

18 I, of course, read the transcript differently, and
19 I looked at the very narrow issue as I understood it,
20 and as I say, in my judgment, that would be an
21 inference.

22 I cannot see that there was any such agreement.

23 CHAIRMAN PALLADINO: Other questions? Well, thank
24 you very much. Next I'm going to ask OGC to say of
25 the status of Commission activities with regard to the

1 impact of earthquakes on emergency planning.

2 MR. MALSCH: Mr. Chairman, by Commission order
3 dated April 3, 1984, the Commission requested the
4 party's response to several questions bearing on
5 whether this case warranted some specific consideration
6 of the effect of seismic events on emergency planning.

7 Responses were received from Pacific Gas & Electric
8 Company, the NRC staff, and joint interveners.

9 My understanding is that the Commission is still
10 considering this matter and is in the process of trying
11 to draft a decision, but that at least on root issue,
12 there is Commission majority in support of the
13 proposition that this case does not warrant any
14 specific pre-licensing consideration of the effects of
15 seismic events on emergency planning.

16 But the details of the order are still being worked
17 on and we do not have exact agreement on the text of
18 the order itself.

19 CHAIRMAN PALLADINO: This says that the Commission
20 stands by the San Onofre decision, in this matter.

21 MR. MALSCH: At least on this particular matter.

22 CHAIRMAN PALLADINO: Any other comments? Any other
23 topics or questions for discussion by members of the
24 Commission?

25 MR. MALSCH: I had one other question. That was

1 just to confirm what I think is the case, that all the
2 licensing board's conditions have been satisfied.

3 I think I heard Darrell say they were, but I
4 wasn't certain that was the case.

5 CHAIRMAN PALLADINO: Darrel Eisenhut?

6 MR. EISENHUT: That is correct, yes, sir.

7 CHAIRMAN PALLADINO: Any other?

8 COMMISSIONER ASSELSTINE: I had one other quick
9 question, and that has to do with the most recent
10 appeal board decision on the motions for reopening.

11 We have not seen an analysis either by OPE or by
12 OGC of that decision, and I guess I just ask OGC if
13 they're aware of any concerns regarding that decision
14 that would in any way affect the Commission's decision
15 on whether to proceed with the full power vote today.

16 CHAIRMAN PALLADINO: Which one is that, Jim, that
17 you're talking about? Is that the one where we...

18 COMMISSIONER ASSELSTINE: Here it is. ALAB 775.

19 MR. TRUBATCH: As a legal matter, the tendency of
20 those petitions is very similar to the tendency of any
21 exceptions before the appeal board when the Commission
22 decides to go forward with the effectiveness decision.

23 As for the technical content, I think you should
24 address that question to OPE.

25 CHAIRMAN PALLADINO: Bill Reamer. Where are they?

1 Bill Reamer? Will you get him for me?

2 COMMISSIONER ASSELSTINE: Is he here or not?

3 CHAIRMAN PALLADINO: What's that? I'm trying to
4 ask Bill Reamer. I want to make sure that whatever I
5 am about to say relates to the right ALAB.

6 COMMISSIONER ROBERTS: I want to ask Jack Martin a
7 quick question, if he's still here.

8 COMMISSIONER ASSELSTINE: He's in the back.

9 COMMISSIONER ROBERTS: Do you concur with the NRR
10 statement made by Mr. Denton that the plant meets our
11 regulations and can go to full power? Do you concur in
12 that judgment?

13 MR. MARTIN: Yes, I do.

14 COMMISSIONER ROBERTS: Thank you.

15 MR. MALSCH: Mr. Chairman, I did have one small
16 follow up.

17 CHAIRMAN PALLADINO: I'm not sure we've addressed
18 the question of Commissioner Asselstine.

19 COMMISSIONER ASSELSTINE: I think Jack's working on
20 it. I can see him back there.

21 CHAIRMAN PALLADINO: What I was trying to determine
22 was that the one where we have notation votes?

23 COMMISSIONER ASSELSTINE: No.

24 MR. TRUBATCH: That is the appeal board decision
25 denying the second round or subsequent round of request

1 to reopen the record on construction quality assurance
2 and design quality assurance.

3 COMMISSIONER ASSELSTINE: Yes.

4 MR. TRUBATCH: There is a petition pending before
5 the Commission to review that decision, and there have
6 been oppositions filed by PG&E and the NRC staff.

7 CHAIRMAN PALLADINO: Where do we stand on when they
8 take the votes on that, do you know?

9 MR. TRUBATCH: There has been no OGC analysis.

10 COMMISSIONER ASSELSTINE: There's not vote sheet
11 because there's no OGC or no OPE analysis of it yet.

12 CHAIRMAN PALLADINO: I see. Is it essential that
13 we...

14 MR. TRUBATCH: To repeat again, on the legal side,
15 we see it as no different from the dependency of
16 exceptions before the appeal board which have never
17 stopped the Commission or which the Commission doesn't
18 find interferes with the effectiveness procedure.

19 COMMISSIONER ASSELSTINE: I guess what I'm
20 wondering is if Jack is aware of anything in the
21 substance of the decision that indicates to him a
22 problem that would be in any way relevant to the
23 Commission's vote on a full power license.

24 MR. ZERBE: We're not aware of it, that there is,
25 but we haven't made a detailed review of that ALAB,

1 so if you want that, we would have to do that
2 separately here.

3 COMMISSIONER ASSELSTINE: Okay. So I should be
4 surprised if in the very near future we got a paper
5 from OGC and OPE saying there are big problems with
6 that decision?

7 MR. ZERBE: Yes, you should be surprised with that.
8 (Laughter.)

9 COMMISSIONER ASSELSTINE: I've been surprised in
10 the past.

11 (Laughter.)

12 MR. TRUBATCH: Could you qualify that surprise in
13 what sense?

14 COMMISSIONER ASSELSTINE: Well, in the sense that
15 Jack says that based upon the review they've done so
16 far, he doesn't see a big concern.

17 MR. TRUBATCH: Well, there's a difference between
18 the effect of the decision on a full power license and
19 where the decision is a matter of a decision, warrants
20 review.

21 There could be a policy issue in the decision which
22 the Commission should take up, whether they're right or
23 wrong.

24 COMMISSIONER ASSELSTINE: Yes. What I'm asking is,
25 are they in any way relevant to a decision to go to
full power? Jack said he doesn't think so.

1 MR. MALSCH: I had one small item. The meeting has
2 been very useful and provided a lot of information, and
3 I think it would be useful if the Commission would
4 agree that a transcript of the meeting could be cited.

5 CHAIRMAN PALLADINO: What's that?

6 MR. MALSCH: That a transcript of the meeting could
7 be cited and used by the parties in legal briefs or
8 arguments or whatever.

9 Normally that's not permitted. But I think that
10 would be useful in this case.

11 CHAIRMAN PALLADINO: What do we have to do to
12 permit that?

13 MR. MALSCH: Just agree with that proposition,
14 that's really all.

15 (Laughter.)

16 CHAIRMAN PALLADINO: Is there anything...what's the
17 downside of doing that?

18 COMMISSIONER BERNTHAL: Be careful, Joe.

19 (Laughter.)

20 MR. MALSCH: There is no downside to that. It's
21 just that the rules provide that unless the Commission
22 provides otherwise it's not proper to cite transcripts
23 of Commission meetings, even if they're open meetings.

24 CHAIRMAN PALLADINO: And you are recommending that
25 we...

1 MR. MALSCH: I recommend that the parties be
2 allowed to cite.

3 CHAIRMAN PALLADINO: Any objection by other
4 commissioners?

5 COMMISSIONER ASSELSTINE: No.

6 COMMISSIONER BERNTHAL: I guess not.

7 CHAIRMAN PALLADINO: All right. Thank you. Any
8 other matters of general discussion that we should
9 address now?

10 Well, I'm going to propose that after I make a
11 comment or two, that we take about a 15-minute break.

12 When we come back, I'd like the Commission to
13 address the question as to whether or not it's ready to
14 vote.

15 By that I mean, does it have enough information,
16 and if there is not enough information on the feeling
17 of a particular commissioner, he should identify what
18 it is, and then we'll have to get the sense of the
19 Commission.

20 If there is agreement there is sufficient
21 information to make a decision one way or the other,
22 then I would call for a vote on that question. So...

23 COMMISSIONER BERNTHAL: Can we ask another
24 question when we come back, in case we'd like a little
25 more information?

1 CHAIRMAN PALLADINO: We always can ask questions.
2 I don't mean that we're cutting off debate. I'm hoping
3 that the key individuals are not going away, so that if
4 you have questions, they can be answered.

5 Okay. Well, we will recess for 15 minute, and if
6 the Commission needs any more time than that, we'll get
7 word back to you.

8 (Whereupon, a brief recess was taken.)

9 CHAIRMAN PALLADINO: The Secretary was approached
10 by a representative of Mothers for Peace, with a
11 request to be able to address the Commission for ten
12 minutes.

13 A polling of the Commission has indicated a
14 willingness on the part of the Commission to hear the
15 representative for five minutes by the clock.

16 There was also a request from a representative from
17 GAP to address the Commission. They strictly are not a
18 party, however, they have been involved heavily in this
19 case.

20 The majority of the Commission have agreed to grant
21 five minutes to GAP. The applicant will then,
22 therefore, also be given five minutes to respond, and
23 if the staff wishes to respond, they can have five
24 minutes.

25 But all of these will be by the clock. Inasmuch as

1 we may be receiving new information, the Commission
2 feels we will have to break again to reflect on that
3 information for ten minutes, and then we'll reconvene
4 to see where we go from there.

5 At this time, I wonder if we could have the
6 representative from Mothers for Peace join us at the
7 table.

8 The Secretary will keep time and alert you when you
9 have one minute to go.

10 MS. CULVER: Gentlemen, my name is Nancy Culver. I
11 represent the San Luis Obispo Mothers for Peace, and I take
12 the long view in this case, ten and a half years.

13 During that ten and a half years, that we participated
14 in this case as interveners. The NRC has dealt with
15 the issue we have raised, by and large, by either
16 ignoring them or by telling us things that turned out
17 to not be true.

18 For example, we raised the issue of quality
19 assurance for six years, and each time, you refused to
20 hold hearings.

21 And now you have the nerve to complain to us about
22 the so-called last minute quality assurance
23 allegations, while at the same time, you're confronted
24 with the Pullman audit, and other evidence of a
25 widespread breakdown of quality assurance.

1 Even today, you continue to deny any hearings on
2 construction quality assurance.

3 Now as for the issues of assurances that turned out
4 to be false, maybe you didn't mean to tell us things
5 that weren't true, and if that's so, we question your
6 competence.

7 And if you did mean to tell us things that weren't
8 true, then we question your integrity.

9 If the utility had acted as you have, your own
10 regulations and the law would allow you to suspend or
11 revoke the license of the plant, and depending on the
12 degree of willfulness, ask for criminal prosecution.

13 The unresolved issues in this case are too numerous
14 to discuss and are contained in the hundreds of legal
15 filings by our attorneys.

16 I want to focus today on only two--seismic design
17 and the complicating factors of an earthquake on
18 emergency planning.

19 The NRC approved the seismic design based on a
20 whole list of assumptions, many of them highly
21 controversial.

22 Even worse, new evidence, studies done just in
23 recent months, demonstrate that that design may be even
24 more inadequate than we had previously thought.

25 Contrary to NRC findings, the Hosgri Fault appears

1 to be a thrust fault capable of forces two to three
2 times earlier estimates, and it may actually dip
3 directly underneath the plant, and some experts believe
4 that focusing of seismic energy is probable, not a
5 "maybe," not "iffy."

6 In addition, the NRC has concluded that Diablo
7 Canyon sits in an area of low to moderate seismic
8 activity.

9 Gentlemen, you're the only people who think that.
10 Since 1978, seven earthquakes have occurred on or near
11 the Hosgri Fault, including one on that fault just six
12 weeks ago.

13 We have asked for new hearings on seismicity to
14 consider this important new evidence. You, in turn,
15 have asked the utility to perform a new study to be
16 completed in 1988.

17 How in the world can you allow Diablo Canyon to
18 operate at full power for four years before you even
19 evaluate the significance of this new information for
20 the plant's seismic design?

21 We raised the issue of the complications of an
22 earthquake for emergency planning in licensing
23 proceedings several years ago.

24 You ruled against us, wouldn't hear that issue,
25 based on a previous case in which you said the issue

1 would be studied generically.

2 Now three years later, no analysis has been done
3 either generic or site-specific, and you're poised to
4 license the plant.

5 Since an earthquake is at this particular plant the
6 most likely cause of emergency, an emergency plan that
7 fails to take into account an earthquake isn't worth
8 the paper it's written on.

9 I realize you don't think a lot about earthquakes,
10 living in Washington, D.C. I urge you to do so.

11 Whether an accident at Diablo Canyon might be
12 caused by an earthquake, by an ineffective quality
13 assurance program, by piping problems, or by any one of
14 a dozen other issues that you have ignored, the
15 residents of California know exactly where to place the
16 blame.

17 We will hold you five men at this table wholly and
18 completely responsible, and in that event, we will seek
19 criminal prosecution.

20 You will be held accountable for your failure to
21 take Diablo Canyon's deficiencies seriously.

22 CHAIRMAN PALLADINO: All right. Thank you. Any
23 questions by commissioners? All right. Thank you very
24 much.

25 Okay. Now can we have the representative from GAP?

1 MR. DEVINE: My name is Thomas Devine. I'm the
2 legal director at the Government Accountability
3 Project.

4 I would like to make two overview comments about
5 this morning's briefing. First is a response to the
6 Office of Inspector and Auditor report.

7 I won't go into detail except to say that OIA has
8 now reached the same level they concluded about the NRC
9 staff in 1981.

10 Their investigation didn't meet the minimum
11 government standards for the definition of an
12 investigation.

13 I further would like to say that the Commission
14 itself could have been a little more thorough in your
15 questioning of Mr. Smith.

16 As he told me after the briefing out in the
17 hallway, if you had asked him whether the staff had
18 been candid in their responses to him, he would have
19 said he doesn't know.

20 Well, we told him the staff was not candid in their
21 responses to him, and he chose not to talk to talk to
22 the whistleblowers who could prove it.

23 Number two, I think the most significant thing that
24 has occurred in this decision concerns the chart that
25 you all handed out on the Office of Investigations.

1 There are 99 allegations there, which have been
2 classified not necessary for resolution prior to full
3 power licensing.

4 Among the allegations which have been defined out
5 of relevance for a full power licensing decision are a
6 destruction of documents, false statements, and
7 harassment and retaliation of employees who try to
8 raise problems.

9 Until today, those have been relevant issues for a
10 full power license. Today they're not even on the
11 agenda.

12 Instead, after receiving evidence last December
13 that in the seismic design review, the licensee
14 destroyed the calculations which disagreed with
15 predetermined conclusions, transferred out the
16 engineers who didn't follow the party line, and then
17 rewrote the engineering logs to erase any reference to
18 their work.

19 That's been deemed irrelevant for the licensing
20 decision. The Office of Investigations hasn't gotten
21 to it in seven months.

22 And instead, you are accepting the accuracy of the
23 licensee's current answers as an assumption and just
24 reviewing them for technical support. In my opinion,
25 that's a disgrace.

1 Third, as whistleblower support organization, we
2 concentrate on pursuing charges of retaliation by
3 employees.

4 We try to protect the right to dissent. This
5 morning, Mr. Martin stated that there is no pattern of
6 retaliation at Diablo Canyon which would affect the
7 quality of the plant.

8 Well, I've worked with the whistleblowers who have
9 raised the issues at Diablo Canyon, and we have
10 presented over 50 affidavits to the Nuclear Regulatory
11 Commission.

12 Out of the employees who signed those affidavits,
13 one is still working at Diablo Canyon. All of the rest
14 of them either resigned due to harassment, been fired,
15 or laid off.

16 Now that strikes me as a pattern. The employees
17 on-site think it's the kiss of death to go to the
18 Nuclear Regulatory Commission.

19 But has it had any effect on the plant? Well, I'd
20 like to point out to you an example of evidence we
21 received from last week.

22 Last Thursday on site, the employees were told that
23 they should sign a training sheet certifying their
24 participation in a training program.

25 The problem is, the training program didn't occur.
It never happened. In fact, as you gentlemen can see,

1 they were asked to sign a blank form.

2 Fifteen people out of a shop of 16 chose to sign
3 that blank form because they didn't want any trouble.
4 The 16th refused, and he was laid off two days later.

5 Now frankly, gentlemen, I think there is some
6 effect (inaudible) from this. I wonder if this is
7 something that you consider out of line, having 15
8 people sign a blank piece of paper certifying their
9 participation in a welding improvement program.

10 Ironically, one of the phony retraining forms
11 involved a program to prevent further falsification of
12 records. The response was to falsify a new set of
13 records.

14 Finally, the staff has said that there is nothing
15 out of line, that the majority of the allegations just
16 don't have any impact.

17 I don't know how the staff can make that
18 conclusion. How do they know? Since the April 13
19 Love-Howard test vote, the technical staff has spent a
20 total of four hours talking with all of the
21 whistleblowers who presented 800 allegations in sworn
22 statements during that time.

23 They didn't even begin to respond to them. If they
24 had, they would have received the evidence which I'm
25 going to present to you now.

1 I will give you two examples of information that
2 the staff could have gotten if they were interested.

3 First is the area of accuracy of drawings. We
4 pointed out to you earlier this year that drawings that
5 the operators have didn't agree with the drawings of
6 approved design.

7 That means the operators might be relying on things
8 that are inaccurate. Well, the staff told us in June
9 that those problems had all been solved last year.

10 Well, as a matter of fact, they weren't. I'm going
11 to distribute to you all an internal report dated
12 December 11, 1983, and another one dated December 10,
13 1983.

14 CHAIRMAN PALLADINO: Do you have another copy?

15 MR. DEVINE: There was five that I gave you all,
16 Chairman.

17 COMMISSIONER ROBERTS: I think you missed one
18 stack. I'm sorry.

19 MR. DEVINE: Those are separate documents.

20 CHAIRMAN PALLADINO: We'll make a copy.

21 MR. DEVINE: You will note on the December 10, 1983
22 memo--I'm sorry if I'm going too fast, but I've only
23 been given five minutes--that the piping drawings and
24 the operator drawings don't agree.

25 In fact, the operator drawings don't even show

1 valves that are located in the plant.

2 The response of management to this was documented
3 by the engineer on December 19, 1983. It is also
4 understood per conversation with you to his supervisor,
5 that no PNID-designed to ovid operator-comparison
6 is to be done, and any problems with the ovids
7 operator drawings is to be ignored.

8 This was for Unit 1, gentlemen. I don't think they
9 know what they've got up there, and it's a deliberate
10 management decision not to find out. There is a second
11 problem I'd like to give you as an example today.
12 Please excuse my error, there was a fifth.

13 CHAIRMAN PALLADINO: Wait a minute. These are not
14 all stapled and I'm not sure what I've got here.

15 COMMISSIONER ASSELSTINE: This is a full package.

16 MR. DEVINE: The second example involves
17 hydrostatic tests. These are the only tests where we
18 checked to see if the plant can meet the claimed
19 margins in its design.

20 Well, this spring, a whistleblower, an engineer on
21 site, was reviewing the records for Unit 2. He found
22 that 60% of the hydrostatic test for Unit 2 legally
23 should have failed.

24 Some of the cases were due to overpressurization
25 up to 70% in the examples that we saw. That could lead

1 to damage of the pipes and premature aging.

2 Other examples were due to underpressurization,
3 where they were up to over 1000% under the minimum
4 required in order to prove that the plant could meet
5 its design.

6 This happened in 60% of the hydrostatic tests for
7 Unit 2, according to the allegor. He wasn't permitted
8 to go back to Unit 1 and check on it.

9 As far as I can tell, both of these incidents
10 should have been reported to the Commission. Neither
11 of them were.

12 And we don't know whether that plant can meet its
13 design.

14 Gentlemen, I called up Mr. Bishop, of Region V, in
15 early June to inform him about both of these problems.
16 Mr. Bishop said, "Thank you."

17 Now it's the end of July, beginning of August.
18 It's still not in the record until this moment. The
19 reason it's not in the record is because the staff
20 didn't give a darn.

21 And now the question is whether you gentlemen do.

22 CHAIRMAN PALLADINO: All right. Thank you. Any
23 questions by commissioners?

24 All right. Does the applicant wish to respond?

25 COMMISSIONER BERNTHAL: Let me just make one

1 comment for Mr. Devine's benefit, so that people
2 understand that these aren't things that have just now
3 come before us, at least in the first case you
4 mentioned.

5 I have looked at the affidavit, the new affidavit
6 which you submitted earlier today, and in fact
7 discussed the matter with our Office of Investigations.

8 I, of course, am not going to make a judgment on
9 my own that matter at this time, but I have given that
10 some attention today.

11 MR. MANIATIS: I'm George Maniatis (phonetic),
12 executive vice president of Facilities and Electric
13 Resources Development for Pacific Gas & Electric
14 Company.

15 With me today are Howard Friend, of Bechtel, the
16 Diablo Canyon project completion manager, Jim Schiffer,
17 our manager of nuclear plant operations, and Bruce
18 Norton, our licensing attorney.

19 I'd like to thank the Commission for this
20 opportunity to make a few remarks in support of our
21 request for a full power operating license for Diablo
22 Canyon.

23 Let me say at the outset that we concur fully with
24 the staff's assessment regarding the readiness of
25 Diablo Canyon to commence operation above 5% power.

1 The work done by all parties to the Diablo Canyon
2 proceedings, to reach this state of readiness, has been
3 diligent, thorough, and massive.

4 As you've been informed by the staff, we have
5 successfully completed all actions and activities
6 required by the Nuclear Regulatory Commission for a
7 full power operating license for Unit 1.

8 These actions and activities have included
9 successful completion of fuel loading, start up and low
10 power testing, completion of all physical work required
11 for full power operation, completion of all reviews
12 requested by the staff, resolution of all issues
13 raised in the licensing proceedings to the
14 satisfaction of PG&E, the staff of the Nuclear
15 Regulatory Commission, the Advisory Committee on
16 Reactor Safeguards, and the Atomic Safety and Licensing
17 Appeal Board, and most important, attainment of a high
18 state of readiness to operate Diablo Canyon in a safe
19 and reliable manner at all power levels, including full
20 power, as described by Mr. Martin.

21 Attainment of this state of readiness to commence
22 operations above 5% power is by any measure a notable
23 technical achievement and team accomplishment.

24 As the executive with overall responsibility for
25 the design, construction, licensing and operation of

1 Diablo Canyon, I wish to assure this Commission that
2 the senior management at PG&E will continue to exercise
3 strong and vigilant oversight of the operation of
4 Diablo Canyon to assure its safe and reliable operation
5 at all times.

6 In conclusion, I would like to reiterate that Unit
7 1 of the Diablo Canyon Nuclear Power Plant is ready now
8 in all respects to commence power ascension and
9 operation above 5% power.

10 The number and breadth of independent reviews
11 certify to the correctness of the plant's design and
12 construction are unprecedented in the industry of
13 commercial nuclear power.

14 We believe that these reviews, together with the
15 affirmative recommendations of the staff, Region V, and
16 the ACRS, provide this Commission with needed assurance
17 that Diablo Canyon can be operated at full power
18 without endangering the public health and safety.

19 Accordingly, we respectfully urge the Commission to
20 act favorably on our request and grant PG&E authority
21 to operate Diablo Canyon at full power. Thank you.

22 CHAIRMAN PALLADINO: Any questions? Thank you very
23 much. Does the staff have any comments they'd like to
24 make at this time?

25 MR. DIRCKS: I think there were a couple of points

1 in Mr. Devine's statement that we'd like to clear up
2 for the record.

3 MR. BISHOP: This is Tom Bishop. I was just going
4 through our computer program that prints out our 1,404
5 allegations.

6 I didn't have quite the time to go through all of
7 it, but both those instances that Mr. Devine mentioned
8 are in our program and were part of the assessment in
9 coming to the conclusions that we made to you and the
10 other commissioners.

11 Specifically, allegation 1286 deals with the
12 December '83 internal memo. On that particular
13 subject, I'm speaking from memory, but our report we
14 issued on that subject of the accuracy of those
15 drawings recognizes that there are some bits and pieces
16 to be cleaned up.

17 We are quite confident that the drawings that are
18 available to those operators both in the form of the
19 ovids, as they're called, or the piping and
20 instrumentation diagrams, are accurate for their
21 intended purpose.

22 And that was the reason for our allegation review
23 board drawing the conclusion that this particular item
24 did not need complete resolution prior to a full power
25 consideration.

1 The second item, dealing with the Unit 2
2 hydrostatic tests, again was known to us.
3 Unfortunately I didn't have time to look through the
4 1,400 to give you the exact number.

5 We are aware that the Unit 2 hydrostatic test
6 program has some work done on it. I am not going to
7 endorse the degree of problems that Mr. Devine infers.

8 I haven't checked those details in Unit 2. But
9 again, in Unit 1, we are quite confident that those
10 hydrostatic tests have been properly done.

11 I would speak not only from the staff's perspective
12 but also those that relate to the ASME Code piping or
13 independently accepted by the code-authorized nuclear
14 inspector.

15 There's a lot more to be said but just to let you
16 know that we are familiar with those two issues and
17 they were considered in our recommendations to you.

18 CHAIRMAN PALLADINO: Thank you. Any questions?

19 MR. SMITH: Ronald Smith, OIA. I hoped not to be
20 back up here, but I feel I must correct the statement
21 made by Mr. Devine.

22 He has taken comments in the discussion effort to
23 maintain open communication completely out of context,
24 which were speculative in nature.

25 I reiterate my earlier testimony that I have

1 absolutely no basis in connection with his allegations
2 to have any doubt as to the staff's integrity or
3 honesty before this Commission.

4 As I said, I've attempted to keep open
5 communication with Mr. Devine, and I'm, quite frankly,
6 disappointed that he would take that effort and use it
7 in the manner he did.

8 CHAIRMAN PALLADINO: Any questions by
9 commissioners?

10 COMMISSIONER ASSELSTINE: No.

11 CHAIRMAN PALLADINO: It was at the request of one
12 commissioner, and I would concur with it, that we
13 should break for ten minutes and consider brief
14 matters.

15 Then we'll come back and address the questions
16 raised.

17 (Whereupon, a brief recess was taken.)

18 CHAIRMAN PALLADINO: Please come to order. At this
19 time, I'd like to poll the Commission to determine
20 whether or not the Commission feels that it has the
21 information it needs to make a decision on whether or
22 not to permit power ascension and operation up to full
23 power.

24 Basically, is the Commission ready to vote. I for
25 one feel that I have the necessary information to make

1 a decision. I am prepared to vote. Let me ask
2 Commissioner Roberts.

3 COMMISSIONER ROBERTS: I share the same view.

4 CHAIRMAN PALLADINO: Commissioner Asselstine?

5 COMMISSIONER ASSELSTINE: There is one aspect on
6 which I don't think we have the information we need to
7 make a decision, and that's on the complication effects
8 of earthquakes on emergency planning.

9 But the difficulty with that is the manner in which
10 the Commission has handled that issue. And that's an
11 item of concern to me.

12 CHAIRMAN PALLADINO: Well, I think the approach has
13 been to treat that as a separate matter on the basis
14 that the Commission is reaffirming its San Onofre
15 decision.

16 Commissioner Bernthal?

17 COMMISSIONER BERNTHAL: Yeah, I'm prepared to vote.
18 I would just comment that with respect to Commissioner
19 Asselstine's comment on earthquakes and emergency
20 planning, I guess we simply arrive at different
21 opinions, really on the technical issue here.

22 I do not consider the plants as designed in
23 California to be unique as compared to a number of
24 other plants where in recorded history very destructive
25 earthquakes have occurred as well, and I think the

1 Commission should make a decision in the near future on
2 whether generic consideration should be made of that
3 broader issue.

4 But I do not consider that issue to be unique to
5 this site.

6 CHAIRMAN PALLADINO: Commissioner Zech?

7 COMMISSIONER ZECH: If I may, Mr. Chairman, I'd
8 like to make a statement. First of all, I'd like to
9 compliment and commend all who come before the
10 Commission today.

11 I think the statements have been very helpful and
12 professional, very valuable, certainly has been helpful
13 to me.

14 The history of the licensing of Diablo Canyon
15 Nuclear Power Plant is complex and protracted. The
16 record of the proceeding is voluminous.

17 I have reviewed a considerable part of the record.
18 I have visited Diablo Canyon plant, I have talked to
19 the utility management personnel, including some of the
20 operators.

21 However, the time available to me as a commissioner
22 has simply not been sufficient for me to satisfy myself
23 that I have read, analyzed, and adequately reflected
24 upon all the relevant material.

25 If my vote were needed either yea or nay, I believe

1 I would need several more weeks before I could come to
2 a decision. Therefore, I have concluded that I cannot
3 vote today on the full power license decision for
4 Diablo Canyon.

5 CHAIRMAN PALLADINO: Does that mean you're not
6 participating?

7 COMMISSIONER ZECH: I'm not sure of the technical
8 term, Mr. Chairman, but it means that I'm not ready to
9 vote today, and whatever non-participating legally
10 means, I suppose that means I'm not going to
11 participate. But I'm not ready to vote today.

12 (Laughter.)

13 CHAIRMAN PALLADINO: All right. Well, I gather the
14 majority of the Commission is ready to vote. I'd like
15 to ask and poll the commissioners on the question of
16 whether or not the Diablo Canyon plant should be
17 permitted to proceed with power ascension and operation
18 up to full power.

19 Now this has been a very complicated case. It has
20 faced a number of issues, and has taken very careful
21 study to try to make a determination on which way to
22 go.

23 I have concluded that full power operation should
24 be approved and power ascension up to full power should be
25 approved, and I cast my vote in that direction.

1 I have confidence in the seismic design of the
2 plant based on my assessment of the reviews conducted
3 by the NRC staff, the ACRS, and the NRC appeal board.

4 I believe the questions which led to the suspension
5 of low power license in 1981 have been adequately and
6 extensively addressed by the licensee, by the NRC
7 staff, and by the NRC appeal board.

8 I am satisfied that the concerns of NRC inspector
9 Isa Yin have been fully aired and adequately addressed.

10 I rely not only on the staff's views of this matter
11 but also on my assessment of the situation, and on the
12 review of Mr. Yin's concerns by the Advisory Committee
13 on Reactor Safeguards.

14 As I indicated earlier, it is always disturbing to
15 have to face differing judgments--I want to use the
16 right word--not only in the case of reactor operations
17 but also in many other activities that we humans engage
18 in.

19 Nevertheless, there comes a time for making a
20 judgment, and I think that the matter has been aired
21 properly and that we've had independent review.

22 My assessment is that with all due respect to Mr.
23 Yin, we are prepared to proceed with ascension to power
24 and full power operation.

25 I believe that the procedures we have adopted for

1 screening and evaluating many allegations involving
2 Diablo Canyon provide reasonable assurance that the
3 plant is not beset by safety deficiencies that would
4 endanger the health and safety of the public in the
5 vicinity of the plant.

6 I am also satisfied that the resolution of the
7 operator staffing issues at the plant and I note the
8 evaluation of Federal Emergency Management Agency which
9 has approved the adequacy of off-site emergency
10 planning.

11 Let me turn next to Mr. Roberts.

12 COMMISSIONER ROBERTS: A couple of brief points.
13 Diablo Canyon has been reviewed in meticulous detail by
14 an extraordinary team of licensee personnel and
15 contractors, the NRC staff and its contractors, as well
16 as third party reviewers and the Advisory Committee on
17 Reactor Safeguards.

18 Each of these reviews point to a conclusion that
19 this plant has been designed to meet our regulations
20 and built in accordance with the design.

21 There are currently no design or construction flaws
22 of such significance that would indicate the plant is
23 not physically ready for full power operation.

24 The plant staff has been well-trained and been
25 evaluated by the NRC and found adequately qualified to

1 operate this plant. The NRC has gone well beyond the
2 requirements of NRC procedures for public participation
3 and has been responsive to public concerns.

4 A record number of allegations from the public have
5 been reviewed and analyzed.

6 Those which were found to have technical merit have
7 been appropriately acted upon.

8 The fuel loading and low power operations have been
9 closely monitored by the NRC and performance has been
10 found to be satisfactory.

11 The plant has been operated in a safe manner.
12 Without question, the NRC has an obligation to review
13 safety matters and to ensure that safety problems are
14 identified and corrected.

15 It also has a duty to reach a decision once we have
16 fulfilled that obligation.

17 Now after exhaustive and comprehensive review, the
18 NRR staff and NRC Region V have concluded that this
19 plant is ready in all respects for full power
20 operation.

21 I personally believe that this plant is ready to
22 begin power ascension and should be issued a license.

23 CHAIRMAN PALLADINO: You're in favor?

24 COMMISSIONER ROBERTS: Yes.

25 CHAIRMAN PALLADINO: All right. Commissioner

1 Asselstine?

2 (Laughter.)

3 CHAIRMAN PALLADINO: I just like to get these
4 things settled.

5 (Laughter.)

6 COMMISSIONER ROBERTS: You don't like those nods
7 that don't get in the record.

8 CHAIRMAN PALLADINO: Commissioner Asselstine?

9 COMMISSIONER ASSELSTINE: I want to make a few
10 comments on four points. I'll say at the outset that
11 I'm voting against full power operation for the plant
12 based upon the remaining concerns that I have.

13 The first point I want to touch on briefly is the
14 complicating effects of earthquakes on emergency
15 planning.

16 My own view is that the Commission is compelled,
17 both as a matter of law and of logic, to consider the
18 complicating effects of earthquakes in individual
19 licensing hearings in cases for plants such as Diablo
20 Canyon that are located in high seismic areas.

21 I think the Commission's San Onofre decision was
22 wrong, and I think the Commission has done little over
23 the past three years to pursue the kind of generic
24 consideration that was described in that decision.

25 I also think that the majority's return now to that

1 approach, of returning to generic rulemaking
2 consideration, doesn't fit the facts in this case,
3 either.

4 There will be a separate order by the Commission on
5 that subject, and I'll have more detailed views. The
6 majority's rationale still seems to be shifting in
7 support of its position.

8 So I'll discuss in detail my concerns with the
9 majority's decision once it's finalized.

10 I recognize this is a problem of the Commission's
11 making and that it would unnecessarily penalize the
12 licensee in denying an operating license at this time.

13 Nevertheless, I still think that's what is required
14 both as a matter of law and as a matter of logic.

15 On the subject of seismic design quality assurance,
16 I have to say that I'm disappointed in the staff's
17 handling of Mr. Yin's concerns.

18 When I voted for low power operation, it was with
19 the expectation that Mr. Yin and the staff were in
20 agreement on how those concerns were to be resolved.

21 I think it was particularly important in this case,
22 given both the past breakdowns in quality assurance for
23 this plant and the particular significance of
24 seismicity for this plant, that those concerns should
25 have been laid to rest in a manner that satisfied all

1 concerned. And the handling of this matter does leave
2 me with some doubts on the seismic design area.

3 I'd like to suggest that the Commission and the
4 staff consider permitting Mr. Yin to pursue his
5 concerns over the next few months until they are
6 resolved to his satisfaction as well.

7 I think that that's something, if it's practical to
8 do, would be worth doing so that not only his concerns
9 would be addressed, but also the members of the public
10 who may share those concerns will be satisfied that
11 seismic design for this plant is indeed adequate.

12 With regard to the Office of Investigator and Auditor
13 report on the allegations regarding the staff's
14 presentations, I'd have to say that I still have some
15 concerns about the quality of the report and the depth
16 of the thoroughness of that investigation.

17 I think that's something that I want to pursue as a
18 separate matter, but I was not persuaded that that
19 matter has been laid to rest as yet.

20 The final item I want to touch on are the appeal
21 board decisions regarding design quality assurance and
22 reopening the record on seismic design quality
23 assurance and construction quality assurance that are
24 now pending before the Commission.

25 My own view is that both of those decisions should

1 be considered by the Commission and considered by the
2 Commission promptly.

3 I am particularly troubled by the lack of any
4 detailed rationale for the appeal board's decision not
5 to reopen the record on both of those issues, and I
6 think the Commission needs to face those issues
7 promptly.

8 My principal concern has to do with the treatment
9 of the complicating effects of earthquakes on emergency
10 planning, and that decision, together with my remaining
11 doubts on the seismic design quality assurance area,
12 lead me to conclude that I must vote against full power
13 operation at this time.

14 CHAIRMAN PALLADINO: Commissioner Bernthal?

15 COMMISSIONER BERNTHAL: Let me first speak to the
16 suggestion that Commissioner Asselstine has made with
17 respect to Mr. Yin being asked to continue some of his
18 studies and resolve some of his own difficulties.

19 I would have no problem with that, Mr. Chairman,
20 provided that that's a practical and workable
21 arrangement.

22 I have concerns that that may not be advisable for
23 an operating plant, and in fact, Mr. Yin himself
24 probably would be the best person to consult in that
25 regard.

1 But if Mr. Yin and his staff felt that that was
2 something that's workable and makes sense, I would
3 certainly accept their professional judgment on that.

4 I also want to speak in some detail to the issue of
5 earthquakes, because the issue of earthquakes is
6 certainly the most visible issue, especially in
7 California and is unique to California, if not to
8 Diablo Canyon itself.

9 One of the major questions that has run throughout
10 our proceedings in Diablo Canyon is the question of the
11 seismic design adequacy of the Diablo Canyon facility.

12 No one should be under any illusions that the
13 science of geology and seismic science at this point
14 today is an exact science.

15 It's a study of forecasting seismic events, which I
16 think has not yet ascended to the rank and reliability
17 of forecasting the weather by a long shot.

18 But the best experts in the field available today
19 have offered us reasonable and, I believe, sufficient
20 assurance that the design basis and construction of
21 this plant is adequate to withstand the maximum
22 probable seismic event in the geologic region of Diablo
23 Canyon.

24 I support it, the ACRS has recommended it, the
25 utility has proposed, the ACRS and our staff have

1 signed off on a continuing review and evaluation of the
2 state of the seismic art and science as it develops and
3 relates to Diab̄lo Canyon for the next several years.

4 I intend to watch that development rather
5 carefully.

6 In particular, I'd like to respond as well to one
7 of the issues that was raised in our second brief
8 session here by one of the intervener groups, a group
9 that has devoted a great deal of time and effort to
10 this problem.

11 Because the issue of the Hosgri Fault and the fact
12 that it's a thrust type fault and not a strike slip
13 fault, as we might have previously thought, was raised
14 at that time, and I'd like to speak to that for a
15 moment.

16 The indications when we went through this issue in
17 some detail at our earlier meeting were that in fact
18 one geologic paper, one geologic study, as I understand
19 it, done primarily on behalf of the petroleum industry,
20 indicated that indeed the Hosgri Fault may be somewhat
21 closer than previous thought to the Diablo Canyon site,
22 but that at the same time, because of the nature of the
23 fault, the probability of a large 7.5 design basis
24 magnitude quake would under this newest hypothesis be
25 less frequent.

1 I therefore find no reason based on that latest of
2 what I am convinced will be many, many more papers on
3 California geology and seismology, to change my
4 position of the seismic adequacy of the Diablo Canyon
5 plant, and I have reached that conclusion, certainly
6 not on the basis of my own expertise alone, but on the
7 recommendation of the ACRS and what has been shown in
8 previous meetings at this table to be the consensus of
9 expert opinion.

10 I would also like to speak briefly to the matter of
11 allegations. We've had a large volume of allegations
12 in connection with the proceeding.

13 But finally, I have to take a look at two issues,
14 and I always try and separate these issues. First of
15 all, do the allegations call into question the
16 structural hardware physical integrity of the plant?

17 I simply find no basis, based on the
18 recommendations of our staff and outside groups,
19 including the ACRS, that have considered this matter,
20 not the matter of allegations themselves, I should
21 emphasize, but have considered the hardware integrity
22 of the plant, for calling into question at this point
23 the hardware of the plant.

24 As to how those allegations might touch on current
25 plant management, I will stand by the staff evaluation

1 of that at the moment, as I would on an operating
2 plant, and we will let these investigations proceed and
3 we will review them as they go on and look very
4 carefully, as we always do, at allegations that might
5 call into question the adequacy of plant management.

6 One issue that I think was brushed over somewhat
7 too briefly today and therefore, if my fellow
8 commissioners will bear with me, I realize it's late, I
9 think we should comment on briefly, is the issue of
10 operator qualifications.

11 That is an issue that was raised by the gentleman,
12 commissioner, who sat at this position on the table
13 before me, Commissioner Gilinsky, considered that a
14 major issue in relation to Diablo Canyon.

15 It's certainly an important issue and in general,
16 one of the most important issues that we face
17 throughout the industry today.

18 I believe in the case of Diablo Canyon that that
19 issue has been adequately addressed by the
20 certifications that we have received with respect to
21 shift advisors that would be present, and by the
22 additional training with which the staff at Diablo
23 Canyon has received in the last several months.

24 I would caution and comment, however, that there
25 should be no illusion in the industry at large or

1 in the management at Diablo Canyon that the standards
2 of today, which I consider a beginning on the road to
3 excellence, are going to be the final standard
4 tomorrow.

5 I consider the standards of today to be adequate
6 beyond a reasonable doubt for the safe operation of
7 this plant and other plants in this country, but we
8 should look forward to the day when we find excellence
9 beyond any question in such operations.

10 Lastly, just a comment on the issue that Jim has
11 raised on earthquakes and emergency planning. I would
12 just point out that my technical basis for standing by
13 the technical judgment made in the San Onofre decision
14 is finally based on my decision that Diablo Canyon is
15 not unique in respect to earthquakes and emergency
16 planning.

17 I would point out that two of the three most
18 destructive quakes in this country in recorded history
19 have occurred, in fact, east of the Mississippi River.
20 Well, I guess one was a few miles west, perhaps, but in
21 any case, the Eastern part of the country.

22 And therefore, I believe that that's a generic
23 issue and an issue that I certainly would not argue
24 with Commissioner Asselstine that the Commission
25 should have considered earlier, and I will make no

1 excuses for the fact that the Commission has not taken
2 up that generic issue at an earlier time.

3 But I don't believe that it's unique to the case of
4 Diablo Canyon. We should have started on this two
5 years ago, and I'm free to take my 10% of the
6 responsibility on that matter.

7 I hope that we will move quickly now. The Chairman
8 wants me to take 20% but I've argued I've only been
9 here half of that time, so I'll take 10%.

10 (Laughter.)

11 And with that, I'm prepared today, Mr. Chairman, to
12 cast my vote affirmatively for full power operation for
13 this plant.

14 CHAIRMAN PALLADINO: Thank you. As you heard--I'm
15 sorry. Commissioner Zech. Additional comments?

16 COMMISSIONER ZECH: I'm not voting, Mr. Chairman,
17 as I stated.

18 CHAIRMAN PALLADINO: As you heard, we have three in
19 favor of authorizing power ascension and operation up
20 to full power. We have one against, and one not voting.

21 Before we adjourn, though, I want to address
22 another point. In order to implement our decision,
23 we're going to need an order which will be prepared by
24 OGC.

25 OGC may have some question about guidance. I'm not

1 sure if you've got all the guidance you need to prepare
2 such an order, but at this time, I thought I'd ask you
3 to see if there is any particular point in which you'd
4 like Commission comments.

5 MR. MALSCH: At this point, we have all the
6 guidance we need.

7 CHAIRMAN PALLADINO: All right. It is going to
8 take some time to prepare the order. I've been talking
9 to OGC representatives before we got started.

10 They are going to try to have an order for the
11 Commission by next Wednesday. They might have the
12 draft by Monday, but let's see if we can't complete the
13 issuance or complete our approval of the order, and as
14 long as the order is consistent with what we said so
15 far, I understand we don't have to have a public
16 meeting to affirm it.

17 In any event, it is the plan to delay the effective
18 date of the order by one week after the date of the
19 order.

20 I'm sorry. We're going to delay the effectiveness
21 of the order by one week beyond the date of the order
22 so individuals who want to take action will have enough
23 time to do so.

24 Now is there any other matter we should be
25 discussing with regard to Diablo Canyon?

1 COMMISSIONER ASSELSTINE: No.

2 CHAIRMAN PALLADINO: All right. A couple of
3 housekeeping items. We are cancelling the affirmation
4 session for this afternoon, and we'll schedule any
5 affirmation item that's on the schedule for a later
6 time.

7 But I would like the commissioners to meet in a
8 brief agenda planning session in the other conference
9 room in about ten minutes.

10 COMMISSIONER ASSELSTINE: Sure.

11 CHAIRMAN PALLADINO: With the appropriate staff.
12 Thank you all. We stand adjourned.

13 (Whereupon, the meeting adjourned at 4:40 p.m.)
14
15
16
17
18
19
20
21
22
23
24
25

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

CERTIFICATE OF PROCEEDINGS

This is to certify that the attached proceedings
before the NRC COMMISSION

In the matter of:
DISCUSSION/VOTE ON ISSUANCE OF FULL POWER LICENSE
FOR DIABLO CANYON

Date of Proceeding: AUGUST 2, 1984

Place of Proceeding: WASHINGTON, D.C.

were held as herein appears, and that this is the
original transcript for the file of the Commission.

JOE NEWMAN

Official Reporter

Joe Newman / ddr

Official Reporter - Signature

COMMISSION BRIEFING
FULL POWER LICENSE AMENDMENT
PACIFIC GAS & ELECTRIC COMPANY
DIABLO CANYON NUCLEAR POWER PLANT, UNIT 1

DIABLO CANYON 1

LICENSEE AND PLANT

• OWNER / LICENSEE - PACIFIC GAS AND ELECTRIC COMPANY (PG&E)

• PLANT

- 2 PWR UNITS
- NSSS - WESTINGHOUSE: 3338 MWT (1084 MWE)
- LARGE, DRY, REINFORCED CONCRETE CONTAINMENT
- ORIGINAL ARCHITECT ENGINEER - PG&E
- CURRENT ARCHITECT ENGINEER - DIABLO CANYON PROJECT
(PG&E / BECHTEL)
- CONSTRUCTOR - PG&E

• SITE

- CENTRAL CALIFORNIA COAST
- VERY LOW POPULATION AREA
- HOSGRI FAULT (5.8 KM)

• EMERGENCY PREPAREDNESS (EP)

- ONSITE EP ADEQUATE:

LICENSING BOARD INIT. DECS. LOW POWER - JULY 1981
AFFIRMED BY APPEAL BOARD, MAY 1983

COMMISSION DECLINED REVIEW

- LICENSING BOARD INIT. DECS. FULL POWER - AUGUST 1982
- ADEQUACY OF OFFSITE EP (INCLUDING FEMA FINDINGS):
LICENSING BOARD INIT. DECS. FULL POWER - AUGUST 1982
- ASLB REQUIREMENT FOR FORMAL FEMA FINDINGS VACATED - JUNE 1984
- LAST EMERGENCY EXERCISE CONDUCTED - OCTOBER 19, 1983
- FEMA INTERIM FINDINGS ON STATE PLAN - JULY 1984

BACKGROUND / CHRONOLOGY

- SEPTEMBER 21, 1981 - COMMISSION BRIEFING RE: LOW POWER AUTHORIZATION
- SEPTEMBER 22, 1981 - LOW POWER LICENSE ISSUED
- LATE SEPTEMBER, 1981 - "MIRROR IMAGE" PROBLEM DISCOVERED BY PG&E
- NOVEMBER 19, 1981 - COMMISSION ORDER SUSPENDS LOW POWER LICENSE
- NOVEMBER 19, 1981 - NRR LETTER RE: REQUIREMENTS FOR FULL POWER
- DECEMBER 8, 1982 - COMMISSION APPROVES 3-STEP LICENSING PROCESS
 - STEP 1 - FUEL LOAD
 - STEP 2 - CRITICALITY AND OPERATION UP TO 5%
 - STEP 3 - OPERATION ABOVE 5% POWER
- NOVEMBER 8, 1983 - COMMISSION APPROVES STEP 1: FUEL LOAD AND COLD SYSTEM TESTING
- NOVEMBER 20, 1983 - FUEL LOAD COMPLETE
- JANUARY 25, 1984 - COMMISSION APPROVES HOT SYSTEM TESTING
- APRIL 13, 1984 - COMMISSION APPROVES STEP 2: OPERATION UP TO 5% POWER (FULL REINSTATEMENT OF SUSPENDED LICENSE)
- APRIL 29, 1984 - INITIAL CRITICALITY ACHIEVED
- MAY 23, 1984 - LOW POWER TESTING COMPLETED
- 1981 - 1984 - NUMEROUS COMMISSION MEETINGS
- SEVERAL COMMISSION ORDERS
- NUMEROUS BOARD NOTIFICATIONS
- JULY 25, 1984 - PLANT READY FOR POWER ASCENSION ABOVE 5% POWER

SELECTED ISSUES

COMPLETION OF IDVP/ITP ISSUES FOR FULL POWER DECISION

STAFFING AND QUALIFICATIONS

- SHIFT ADVISORS
- NUMBER AND EXPERIENCE OF OPERATORS

ALLEGATIONS

PIPING AND SUPPORT ISSUES (INCLUDING I. YIN CONCERNS)

LONG TERM SEISMIC DESIGN BASIS REEVALUATION PROGRAM

PLANT READINESS (INCLUDING LOW POWER TESTING)

CONSTRUCTION QUALITY VERIFICATION

HEARING STATUS AND ISSUES

FULL POWER LICENSE AMENDMENT

DIABLO CANYON 1

SLIDE 3

COMPLETION OF IDVP/ITP ISSUES
FOR FULL POWER DECISION

- SSER 20 (DECEMBER 1983) IDENTIFIES:
 - 9 ISSUES TO BE RESOLVED PRIOR TO CRITICALITY/LOW POWER
 - 4 ISSUES TO BE RESOLVED PRIOR TO FULL POWER
- COMMISSION BRIEFING MARCH 26, 1984:
 - 9 ISSUES FOR CRITICALITY/LOW POWER RESOLVED
- SSER 24 (JULY 1984):
 - DOCUMENTS THE RESOLUTION OF REMAINING ISSUES

OPERATIONS STAFFING AND QUALIFICATIONS

SHIFT ADVISORS (SA)

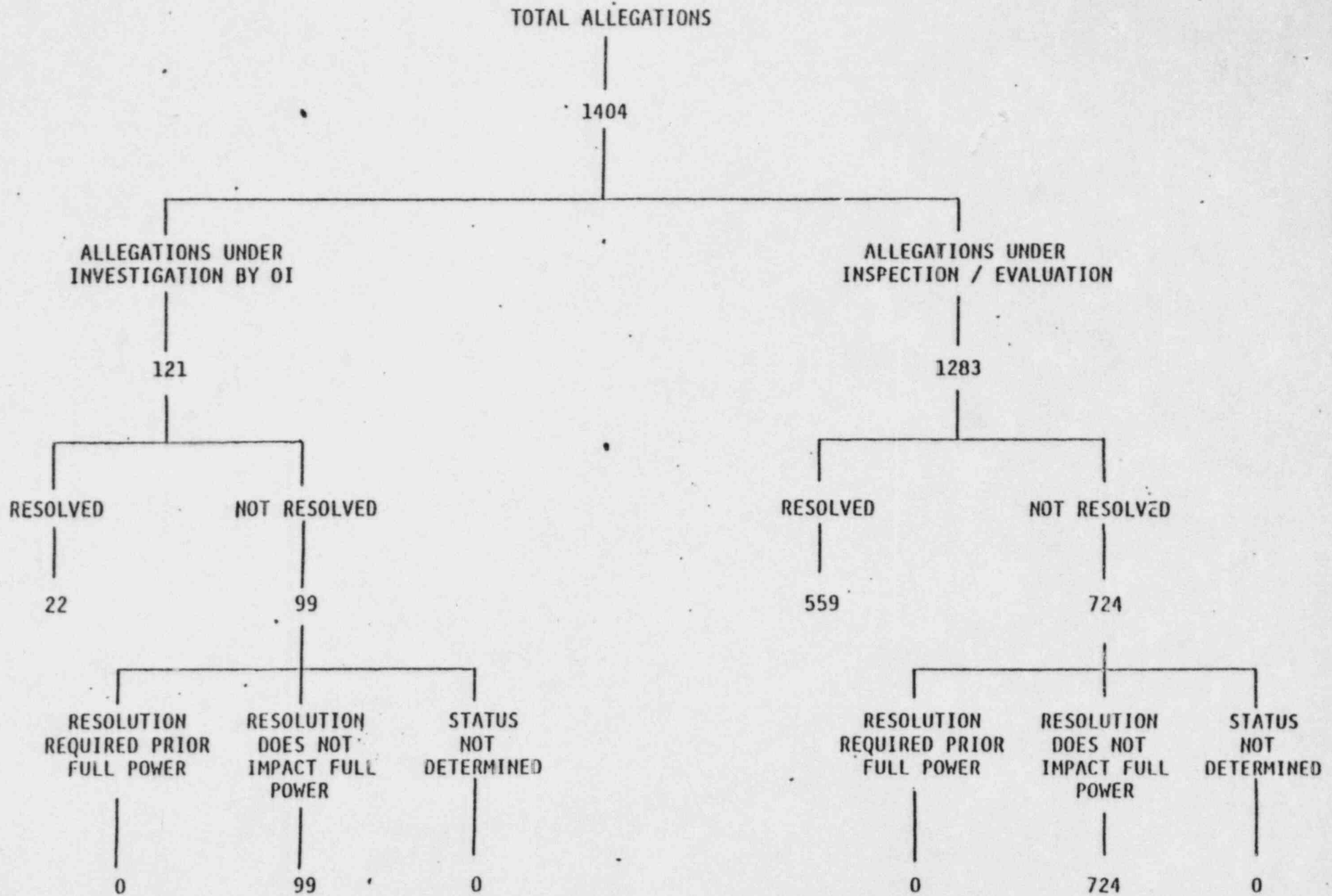
THE STAFF

- REVIEWED SA QUALIFICATIONS
- REVIEWED SA PROCEDURE
- REVIEWED SA TRAINING PROGRAM
- REVIEWED EXAMINATIONS OF FIRST GROUP OF SA CANDIDATES
- MONITORED EXAMINATIONS OF SECOND GROUP OF SA CANDIDATES
- MONITORED OPERATING CREW PERFORMANCE DURING STARTUP AND LOW-POWER TESTING

CONCLUSIONS

- DIABLO CANYON SHIFT ADVISORS MEET THE GUIDELINES ADOPTED BY THE COMMISSION IN THE CHAIRMAN'S JUNE 14, 1984 LETTER
- THE DIABLO CANYON SHIFT ADVISORS ARE SUCCESSFULLY INTEGRATED WITH, ACCEPTED BY, AND WORKING WITH THE OPERATING SHIFT CREWS

ALLEGATION STATUS AS OF JULY 8, 1984



DIABLO CANYON 1
SLIDE 6

PIPING & SUPPORTS

ISSUES CONSIDERED BY PEER REVIEW GROUP

A. LICENSE CONDITIONS

1. REVIEW OF SMALL BORE COMPUTER CALCULATIONS
2. RIGID-RIGID SUPPORTS
3. INACTIVE SNUBBERS
4. THERMAL GAPS
5. PIPING SYSTEM WALKDOWNS
6. "QUICK-FIX" PROGRAM
7. SMALL BORE AND LARGE BORE TECHNICAL ISSUES

B. INDEPENDENT DESIGN VERIFICATION PROGRAM

C. PROGRAMMATIC ISSUES

PIPING & SUPPORTS
PARTICIPANTS IN PEER REVIEW GROUP ACTIVITIES

| | <u>ORGANIZATION</u> | <u>SPECIFIC ISSUES</u> |
|--------------|---------------------|------------------------|
| D. ALLISON | IE | QA |
| R. BOSNAK | NRR | LC 2, 3, 6; IDVP |
| T. BURR | EG&G | LC 2, 3, 6 |
| P. CHEN | ETEC | LC 1, 4, 5 |
| H. FLECK | ETEC | LC 1, 4, 5 |
| M. HARTZMAN | NRR | LC 1, 2, 3, 7; IDVP |
| R. HEISHMAN | IE | QA |
| J. KNIGHT | NRR | |
| K. MANOLY | REGION I | LC 1, 2, 3, 7; IDVP |
| K. MORTON | EG&G | LC 2, 3, 6 |
| E. RODABAUGH | ECR | LC 4, 5 |
| B. SAFFELL | BCL | LC 2, 3, 6; IDVP |
| E. SULLIVAN | NRR | LC 4, 5; IDVP |
| J. TAYLOR | IE | |
| R. VOLLMER | NRR | |

I. YIN INVOLVED IN GROUP ACTIVITIES TO EXTENT POSSIBLE

PIPING & SUPPORTS

PRINCIPAL PEER REVIEW GROUP ACTIVITIES

| | |
|-------------------------------------|---|
| • MEETINGS WITH ACRS & SUBCOMMITTEE | 4 |
| • MEETINGS WITH LICENSEE | 3 |
| • DESIGN AUDITS | 7 |
| • SITE INSPECTIONS | 3 |
| • MEETINGS WITH ALLEGERS | 3 |
| • REVIEW GROUP MEETINGS | 4 |

STAFF AND CONSULTANTS RESOURCES IN EXCESS OF 2 PROFESSIONAL
STAFF YEARS

PIPING & SUPPORTS

CONCLUSIONS OF PEER REVIEW GROUP

- SEVEN CONDITIONS IN LOW POWER LICENSE SATISFACTORILY RESOLVED
- PREVIOUS STAFF CONCLUSIONS ON INDEPENDENT DESIGN VERIFICATION PROGRAM REMAIN VALID
- PROGRAMMATIC ISSUES INVOLVING ONSITE ENGINEERING RESOLVED
- ABOVE ISSUES SHOULD NOT PREVENT OPERATION OF DIABLO CANYON AT FULL POWER

SEISMIC DESIGN BASIS, REEVALUATION PROGRAM

- ACRS LETTER OF JULY 14, 1978 SUGGESTED:
"THAT THE SEISMIC DESIGN OF DIABLO CANYON BE REEVALUATED
IN ABOUT TEN YEARS TAKING INTO ACCOUNT NEW INFORMATION"
- "CROUCH PAPER" (EARLY 1984) - NEW INTERPRETATION OF FAULTING
IN CENTRAL CALIFORNIA
- MEETINGS:
 - COMMISSION: MARCH 26-27, 1984 (FIRST STAFF PROPOSAL FOR
LICENSE CONDITION TO COMMISSION)
APRIL 13, 1984
 - NRC STAFF/PG&E: MAY 8, 1984
 - ACRS SUBCOMMITTEE: MAY 24, 1984
 - ACRS FULL COMMITTEE: JUNE 14, 1984
- COMMISSION ORDER CLI 84-5 (APRIL 13, 1984) AND LETTER FROM
CHAIRMAN TO ACRS (APRIL 13, 1984) REGARDING LICENSE CONDITION
FOR PROGRAM
- LICENSE AMENDMENT NO. 9 (APRIL 18, 1984) SETS FORTH LICENSE
CONDITION
- ACRS LETTER (JUNE 20, 1984) ENDORSES SPECIFIC PROGRAM ELEMENTS
AS PROPOSED BY STAFF
- LICENSE AMENDMENT NO. 10 (PROPOSED) SETS FORTH SPECIFIC PROGRAM
ELEMENTS AS LICENSE CONDITION

FOUR ELEMENTS FOR SEISMIC DESIGN BASIS
REEVALUATION PROGRAM

- (1) EVALUATE NEW INFORMATION
 - (2) REEVALUATE DESIGN BASIS EARTHQUAKE
 - (3) REEVALUATE GROUND MOTION
 - (4) ASSESS RESULTS FROM ITEMS (1), (2) AND (3) ABOVE UTILIZING
PROBABILISTIC RISK ANALYSIS AND DETERMINISTIC STUDIES
- PROGRAM TO BE SUBMITTED TO STAFF BY JANUARY 1985
 - PROGRAM TO BE CONDUCTED BY PG&E
 - ALSO, PARALLEL EFFORT BY STAFF

PLANT READINESS

FULL POWER OPERATIONAL READINESS

- LOW POWER TEST PROGRAM
- EVALUATION OF OPERATING CREWS PERFORMANCE
- STATUS OF CONSTRUCTION AND CONSTRUCTION INSPECTIONS
- ITEMS REQUIRING ADDITIONAL LICENSEE ACTION PRIOR
TO EXCEEDING 5% POWER

CONSTRUCTION QUALITY VERIFICATION
SUMMARY OF PLANT HARDWARE QUALITY VERIFICATIONS

1. THE REGULAR NRC INSPECTION PROGRAM

- DEFINED BY IE MANUAL CHAPTER 2512 AND PREDECESSORS
- SUBSTANTIAL PORTION OF INSPECTORS' TIME GIVEN TO DIRECT INSPECTION OF ACTUAL CONSTRUCTION DETAILS
- PERFORMED DURING PLANT CONSTRUCTION AND SUBSEQUENT MODIFICATION

2. NRC FOLLOW-UP ON ALLEGATIONS

THOUSANDS OF HOURS OF NRC STAFF EFFORT DEVOTED TO THE FOLLOW-UP AND RESOLUTION OF ALLEGATIONS IN RECENT MONTHS COVERING:

- SAFETY-RELATED STRUCTURES
- SAFETY-RELATED PRESSURE BOUNDARIES AND MECHANICAL SYSTEMS
- SAFETY-RELATED ELECTRICAL SYSTEMS
- SAFETY-RELATED COMPONENTS
- QUALITY OF SPECIAL PROCESSES
- INSTRUMENTATION, CONTROLS, AND PROTECTIVE FEATURES
- OTHER QUALITY-RELATED INSPECTIONS

3. QUALITY VERIFICATIONS PERFORMED BY THIRD PARTIES

- INDEPENDENT DESIGN VERIFICATION PROGRAM (IDVP)
- ASME CODE INSPECTIONS
- AUTHORIZED CODE INSPECTORS

CONSTRUCTION QUALITY VERIFICATION
LICENSEE QUALITY ASSURANCE PROGRAM
SINCE SEPTEMBER 1981

- PG&E STOPWORK ORDERS
- H. P. FOLEY STOPWORK ORDERS
- PG&E AUDITS
- H. P. FOLEY AUDITS
- PULLMAN POWER PRODUCTS AUDITS

DIABLO CANYON 1
SLIDE 15

HEARING STATUS

APPEAL BOARD COMPLETED:

- CONSTRUCTION QA
 - ALAB-756 (DECEMBER 1983) - DENIED MOTIONS TO REOPEN THE RECORD.

- REOPENED HEARING ON DESIGN QA ISSUES
 - ALAB-763 (MARCH 1984) - FAVORABLY RESOLVED ISSUES IN CONNECTION WITH UNIT 1 BUT REQUIRED LICENSE CONDITIONS REGARDING JET IMPINGEMENT ANALYSES AND CCW OPERATION

- RECENT MOTIONS TO REOPEN THE RECORD ON DESIGN QA AND ON CONSTRUCTION QA, AND LICENSEE CHARACTER AND COMPETENCE BASED ON ALLEGATIONS
 - ALAB-775 (JUNE 1984) - DENIED MOTIONS

- EMERGENCY PLANNING
 - ALAB-776 (JUNE 1984) - ON APPEAL BY STAFF AND PG&E, VACATED LICENSING BOARD CONDITION REQUIRING FORMAL FINDINGS BY FEMA PURSUANT TO 44 CFR 350

HEARING STATUS (CONTINUED)

APPEAL BOARD PENDING:

- APPEAL BY GOVERNOR AND JOINT INTERVENORS OF LICENSING BOARD
INITIAL DECISION AUTHORIZING FULL POWER, AUGUST 1982
- MOTION TO REOPEN RECORD ON SEISMIC ISSUES, JULY 1984

COMMISSION

- PETITIONS FOR REVIEW PENDING
 - ALAB-756 (DENIAL OF INITIAL MOTION TO REOPEN RECORD ON
CONSTRUCTION QA)
 - ALAB-763 (DECISION ON REOPENED DESIGN QA ISSUES)
 - ALAB-775 (DENIAL OF RECENT MOTIONS TO REOPEN RECORD ON DESIGN,
QA AND ON CONSTRUCTION QA AND LICENSEE CHARACTER
AND COMPETENCE)
 - ALAB-776 (VACATED LICENSING BOARD CONDITION REQUIRING FORMAL
FEMA FINDINGS PURSUANT TO 44 CFR 350)
- DETERMINATION OF NEED TO CONSIDER EFFECTS OF EARTHQUAKES ON
EMERGENCY PLANNING (CLI-84-4)
- IMMEDIATE EFFECTIVENESS REVIEW OF LICENSING BOARD AUGUST 1982
DECISION AUTHORIZING ISSUANCE OF FULL POWER OLS.
- APPLICATION FOR STAY OF ANTICIPATED FULL POWER DECISION
BY COMMISSION, JULY 1984

FULL POWER LICENSE AMENDMENT

A. COMPLETED LOW POWER LICENSE CONDITIONS:

1. ADDITIONAL JET IMPINGMENT ANALYSES (SSER 24)
2. PIPING AND SUPPORT ADEQUACY (SSER 25)

B. REVISED LICENSE CONDITIONS (SSER 27)

1. MAXIMUM POWER LEVEL (100% - 3338 MWT)
2. TECHNICAL SPECIFICATIONS (UPDATE)
3. FIRE PROTECTION SYSTEM (REFERENCE SSER 23)
4. EMERGENCY RESPONSE CAPABILITY (COMPLETION DATES)
5. SEISMIC DESIGN BASES REEVALUATION PROGRAM (DETAILS)
6. REPORTING OF VIOLATIONS (10 CFR 50.73 CONFORMANCE)
7. EXPIRATION DATE (APRIL 23, 2008)

C. NEW LICENSE CONDITIONS (SSER 27)

1. CONTROL OF HEAVY LOADS (NUREG-0612 PHASE II)
2. EMERGENCY PREPAREDNESS (FEMA 44 CFR PART 350; NRC 10 CFR SECTION 50.54(s)(2))
3. MASONRY WALLS (CRITERIA AND MODIFICATIONS)

12/82

TRANSMITTAL TO: Document Control Desk, 016 Phillips

ADVANCED COPY TO: The Public Document Room

DATE: 8/15/84

cc: OPS File

FROM: SECY OPS BRANCH

C&R (Natalie)

Attached are copies of a Commission meeting transcript(s) and related meeting document(s). They are being forwarded for entry on the Daily Accession List and placement in the Public Document Room. No other distribution is requested or required. Existing DCS identification numbers are listed on the individual documents wherever known.

Meeting Title: dir/Pass Vote on Full Power Operating License for Disabled Canyon

Meeting Date: 8/2/84 Open Closed

| Item Description: | Copies Advanced To PDR | * | DCS Copies (1 of each checked) | | |
|--|------------------------------|---|-----------------------------------|----------------|--------------------|
| | | | Original Document | May be Dup* | Duplicate Copy* |
| 1. TRANSCRIPT When checked, DCS should send a copy of this transcript to the LPDR for: <u>W/miniographs</u> | 1 | * | 1 | — | — |
| 2. <u>memo ACRS to Paicadins, dtd 7/16/84</u> | 1 | * | — | 1 | — |
| 3. <u>testimony prepared by J J Gw dtd 7/30/84</u> | 1 | * | — | 1 | — |
| 4. _____ | — | * | — | — | — |

(PDR is advanced one copy of each document, two of each SECY paper.)

*Verify if in DCS, and Change to "PDR Available."

50-275
323

TESTIMONY BEFORE THE COMMISSION HEARING
FOR ISSUANCE OF DIABLO CANYON UNIT 1
FULL POWER OPERATING LICENSE

JULY 30, 1984

Prepared By: I. T. Yin

Mr. Chairman and members of the Commission, thank you for inviting me to present my personal view of matters concerning the issuance of Diablo Canyon Unit 1 full power license.

As you know, I was requested by the Headquarters staff to participate in the NRC's investigation of allegations concerning the construction of Diablo Canyon. I was specifically assigned to pursue allegations in the piping design control area. Based on inspections conducted periodically from November 29, 1983 to May 2, 1984, I identified many significant technical and QA deficiencies. Contrary to the approach normally taken by my Region with significant problems, no enforcement conference was held, nor was there any enforcement action taken. No requests were made for licensee program upgrade, and there was no attempt to broaden the inspection areas and scope. Defective programs, such as Quick Fixes and Onsite Project Engineering Group design activities were allowed to continue until July 1984, when the licensee decided to abolish these practices. My request to followup on the licensee program revision was denied.

In the followup of the seven License Condition items that were incorporated into the low power license, even though I was the instigator for six of the seven items, and would normally be considered to be the most knowledgeable man on the issues and details, nevertheless, I was not considered essential in the followup review and evaluation. Peer Review Team inspection for Items No. 1 and 7 was conducted on the third week of May 1984, during my vacation overseas. Peer Review Team inspections for Items No. 2 to 6 were performed during the fourth week of May 1984, when I returned from vacation, and accompanied the ACRS on the site tour. Subsequent review of the Peer Review Team reports contained in the draft SSER revealed that they contain mostly undocumented reviews and casual observations. There were cases where the inspection sample selected was extremely small, where problems originally identified continued to exist, where review criteria were compromised without technical justification, and where Teams failed to address the specific program deficiency issues. For the number of staff assigned and hired to work in the Peer Review Teams, and the length of time spent since the April 13, 1984 Commission meeting, I don't feel as though we've really addressed all the issues.

The 29-page "Concern Items on IDVP Evaluation of L/B and S/B Piping and Pipe Support Design," resulting from my review of a number of Cloud reports, were submitted to NRR for evaluation on April 25, 1984. Although these were a part of my original planned inspection, I requested NRR staff involvement based on the consideration that: (1) since NRR co-managed the program, any

findings would be against our own staffers, and (2) since NRR had already accepted the program, they should be able to explain the situation, if deficiencies were being identified. The inspection was not scheduled until the week of June 17, 1984. Burdened by long presentations, indoctrinations for the Special Review Team members, discussion on issues unrelated to the IDYP, unavailability of documents that had been stored in remote locations, and my personal schedule difficulties, the actual time that I spent inspecting that week was less than 12 hours. My request to travel back Sunday to continue the inspection first thing Monday was denied.

As you can see, I was not pleased with how NRR has been managing and resolving my inspection findings. I believe additional investigation and inspection effort is warranted to properly close out identified areas of concern. I believe this could be accomplished in three to five weeks. This followup inspection would provide the Commission a clearer picture of the extent of the problem or the lack of problem.

In any event, if the Commission decides to grant the Diablo Canyon I a full power operating license today, I shall respect the Commission's judgement and decision, and shall cooperate fully in any followup actions deemed necessary. Looking back, I know that I have been honest in my work, and feel that I have fulfilled my assigned duty. Despite difference in professional opinion, I have not doubted the NRR management's honesty and integrity, and wish them the best of luck in handling the many other ongoing troubled facilities.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, D. C. 20555

July 16, 1984

H

Honorable Nunzio J. Palladino
Chairman
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Dr. Palladino:

SUBJECT: ~~REDACTED~~ REVIEW OF THE REPORT OF THE DIABLO CANYON PEER REVIEW
GROUP

During its 291st meeting, July 12-14, 1984, the Advisory Committee on Reactor Safeguards completed its review of a draft report (Reference 1) prepared by the Diablo Canyon Peer Review Group as requested by your memorandum dated July 9, 1984. This matter was considered during a Subcommittee meeting held in Washington, D.C. on July 11, 1984. During our review we had the benefit of discussions with members of the NRC Staff, including NRC Inspector, Mr. Isa Yin, representatives of the Pacific Gas and Electric Company (Licensee), and representatives of the Independent Design Verification Program (IDVP) organization. We also heard statements from two members of the public and had the benefit of the documents listed.

The draft report of the Peer Review Group relates to activities undertaken by the Licensee in accordance with the seven conditions imposed by the Commission in the low power license for the Diablo Canyon Nuclear Power Plant, Unit 1. The report also addresses issues raised regarding the scope and effectiveness of the IDVP and concerns relating to quality assurance aspects of the work done by the onsite engineering group.

The Peer Review Group has concluded that the seven license conditions have been addressed satisfactorily by the Licensee, that the previous conclusions of the NRC Staff regarding the acceptability of the IDVP remain valid, and that the Programmatic Issues concerning the onsite engineering group have been resolved.

Although Mr. Yin participated to some degree in the reviews made by the Peer Review Group, he has concerns about the extent of the reviews and the judgmental basis for some of its findings. We believe that Mr. Yin's concerns represent a difference in professional engineering judgment. We believe that the Peer Review Group's review of the Licensee's activities was adequate for the purpose.

7/16..To EDO for Appropriate Action..Cpy to: Chm,Cmrs,RF,SECY..
84-0740

~~840770556~~ 2PP

July 16, 1984

We agree with the conclusions reached by the Peer Review Group that the issues discussed in the draft report have been resolved and should not prevent operation of the Diablo Canyon Nuclear Power Plant, Unit 1 at full power.

Sincerely,



Jesse C. Ebersole
Chairman

References:

1. Memorandum from Richard H. Vollmer, NRR, to R. F. Fraley, ACRS, dated July 6, 1984, Subject: Diablo Canyon License Conditions on Piping and Supports
2. Memorandum from Nunzio J. Palladino, NRC Chairman, to Jesse C. Ebersole, ACRS Chairman, dated July 9, 1984, Subject: Review of Diablo Canyon Issues
3. Memorandum from I. T. Yin, Region III, to Richard H. Vollmer, NRR, undated, Subject: Comments on SSER License Condition 2.C (11) Prepared by the Diablo Canyon Piping Peer Review Panel
4. Draft Memorandum from I. T. Yin, Region III, to Richard H. Vollmer, NRR, undated, Subject: Comments on SSER License Condition 2.C (11) Prepared by the Diablo Canyon Piping Peer Review Panel
5. Letter from Thomas Devine, Counsel, Mothers for Peace, Government Accountability Project, to Nunzio J. Palladino, et al., dated July 11, 1984, Subject: Diablo Canyon Nuclear Power Plant