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MEETING  
BEFORE THE  
CALIFORNIA AIR RESOURCES BOARD  
SCIENTIFIC REVIEW PANEL ON TOXIC AIR CONTAMINANTS

SOUTH SAN FRANCISCO CONFERENCE CENTER  
255 SOUTH AIRPORT BOULEVARD  
SOUTH SAN FRANCISCO, CALIFORNIA

THURSDAY, JUNE 19, 1997

10:00 A.M.

Vicki L. Medeiros, C.S.R.  
License No. 7871

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MEMBERS PRESENT

- Dr. James Pitts, Chairman
- Dr. John Froines
- Dr. Gary Friedman
- Dr. Craig Byus
- Dr. Stanton Glantz
- Dr. James N. Seiber

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

2 --o0o--

3 DR. PITTS: Good morning. My name is Jim Pitts,  
4 and I Chair the Scientific Review Panel, and many or most of  
5 you look familiar.

6 I am sorry about the delay. I hoped Jim Seiber  
7 would be here, but I can assure you I got up this morning on  
8 a simple flight from Orange County, it was about 45 minutes,  
9 and talk about overbooking. It was quite a thrill.

10 I understand why he might be late. We appreciate  
11 your patience, all of you, and we will proceed to move along  
12 at this time.

13 I think all of you are familiar, or should be  
14 with Professor Glantz, Dr. Froines, Dr. Friedman and Dr.  
15 Craig Byus.

16 I have a bit of interesting information. This  
17 handsome gentleman over here is featured in an article on  
18 Partners in Health, and Dr. Friedman is right there in the  
19 photograph.

20 We appreciate it. After you have done such great  
21 job here of joining us, you are all very busy people. This  
22 is another example.

23 DR. FRIEDMAN: That is PR, and don't take it too  
24 seriously.

25 DR. GLANTZ: Are you on the cover of Sports

1 Illustrated?

2 DR. PITTS: I did want to take this occasion to,  
3 while we are at it, in which to, just as Chair, I want to  
4 express my appreciation to the Panel Members, including  
5 Peter, who is in a major conference a couple thousand miles  
6 away, couldn't make it, but had tried and put input into this  
7 particular agenda, and Jim Seiber, when he arrives.

8 All the others here, I want to thank the Panel  
9 Members for their efforts. As you may or may not recognize,  
10 there is a considerable amount of effort that goes into this  
11 entire process and interacting.

12 It is a challenge. I like to do fine stress, and  
13 positive stress and negative stress.

14 They are all very busy people, and you are faced  
15 with stacks of material to review, which they do, and they  
16 have done a great job, and I appreciate that.

17 I would also like to thank Bill Lockett, who is the  
18 Liaison, who has been very effective communing with our Panel  
19 and our Panel Members, and not only the Chair but all the  
20 Members, and the various members of the DPR, and the ARB, and  
21 Peter Mathews for assisting us with the administrative  
22 matters.

23 I would like to congratulate you. While we are  
24 passing out awards, OEHHA for bringing us today the packet on  
25 Environmental Tobacco Smoke Health Effects of Exposure to

1 Environmental Tobacco Smoke.

2           This has been a monumental challenge,  
3 scientifically, and it has certainly taken major efforts on  
4 the part of scientists and administrative staff to put this  
5 on the table today at this time.

6           I think we certainly want to express our  
7 appreciation to all of the people that are involved, and I  
8 know Lauren and other members of staff, and the rest of you  
9 all, we do appreciate it very much.

10           Who is the first person who would like to speak  
11 today?

12           Let me, before you go, I should -- you're right. I  
13 should announce, we have a new member appointed to the  
14 Panel. Dr. Paul Bloch, who is on the faculty of UC San  
15 Francisco, and he was appointed by the Senate Rules.

16           He also is several thousand miles away. This is  
17 avoiding conference time, this time of year, and he is also  
18 fly fishing too, but you have to assume it is work.

19           We look forward to him, and we are forwarding  
20 documents to him, and we look forward to him showing us in  
21 the next meeting, and we keep him active, I assure you,  
22 during the summer.

23           DR. VANCE: Can we turn it on Peter?

24           I'm Dr. Bill Vance, and I am Deputy Director for  
25 Scientific Affairs in the Office of Environmental Health

1 Hazard Assessment.

2 We are very happy to be here this morning to  
3 present to you the documents on Environmental Tobacco Smoke  
4 and the health assessments of the substance.

5 The work followed a February 1992 memo, it was  
6 actually a joint memo from Jan Sharkles, then the Chairwoman  
7 of the Air Resources Board, and Dr. Steven Book, then the  
8 Interim Director of the Office of Environmental Health  
9 Hazards Assessment.

10 The memo was to Jim Strough, the Secretary for  
11 Environmental Protection. This memo outlined the scope of  
12 the document before you today.

13 The memo also outlined the process for the public,  
14 scientific and SRP Review. Although ETS the health  
15 assessments of ETS, was not entered in the 1807 Toxic Air  
16 Contaminant Process, it has paralleled the process, including  
17 your involvement and review today.

18 This slide is a very brief summary of the process  
19 that we have followed since 1992 in the chronology of the  
20 development of the various documents that make up this one  
21 that is here today.

22 In October 1992, we convened jointly with the Air  
23 Resources Board, a two-day workshop to look at the scope and  
24 the issues.

25 Between 1994 and 1996, we developed six different

1 chapters on Environmental Tobacco Smoke.

2 Each chapter was treated separately, so that each  
3 one entered a public comment period between 45 and 60 days,  
4 to include a public workshop.

5 These six chapters were eventually rolled into, I  
6 believe we are now at eight chapters, one of those simply  
7 being an introduction, into the document that is here today.

8 In February 1997, we released the final public  
9 review and comments draft on the Internet, as well as the Air  
10 Board printed up a number of copies and made those available  
11 to the public.

12 Our public comment period closed on May 5. We  
13 received comments postmarked as late May 20, and between May  
14 20 and January 10, Lauren Zeise and her crew were able to  
15 respond and summarize to a tremendous number of comments and  
16 to prepare what we call Appendix B, the response to comments,  
17 and the summary of those comments.

18 We have also in that time received comments from  
19 several members of the SRP and have responded to those  
20 comments.

21 Today is the meeting for your review. We look  
22 forward to hearing your comments today.

23 It is my pleasure now to introduce Dr. Lauren  
24 Zeise, the Chief of the Reproductive and Cancer Hazard  
25 Assessment Section in our office, and the Project Officer

1 with overall responsibility for the contents of the report.

2 It is because of her personal dedication to the  
3 project and the dedication of her colleagues and staff that  
4 we are here this morning to present the health assessment on  
5 Environmental Tobacco Smoke.

6 DR. PITTS: May I ask a quick question?

7 Let me see if I have the numbers right. Do they  
8 sum up to something like in that period six public workshops  
9 over that time, one public forum, and six public comment  
10 periods?

11 DR. VANCE: Yes.

12 DR. PITTS: Well, I think that sort of summarizes  
13 the material.

14 DR. VANCE: Six for the chapters, and seven for the  
15 document that is before you today.

16 DR. PITTS: Thank you very much.

17 DR. GLANTZ: To follow-up on that, would you say  
18 that it would be fair to say that this report has been the  
19 subject of more workshops, and more public comment periods  
20 than anything else we have ever seen?

21 Is that an accurate statement?

22 DR. VANCE: My history on the documents that have  
23 been brought before this Panel is limited, but I will tell  
24 you that we have bent over backwards to make this an open  
25 public process with ample opportunity for everyone's input.

1 DR. PITTS: Lauren.

2 DR. ZEISE: Before I give my presentation, I would  
3 like to introduce the other members of the ETS team with us  
4 here today.

5 To my immediate right is Amy Dunn, who has over the  
6 past five years or so dedicated a good part of her  
7 professional life to the development of this document and  
8 really needs to be acknowledged, and also Dr. Jim Donald, who  
9 coordinated a lot of the efforts around the developmental and  
10 reproductive toxic sections of the document.

11 DR. PITTS: Welcome and thank you.

12 DR. ZEISE: Okay. What I thought we would do today  
13 is to provide a brief overview of the report, Appendix B, the  
14 response to comments and the comment summaries, as well as  
15 the revisions document.

16 In addition, there is a document that was passed  
17 out today, a handout on comments received to date from the  
18 SRP on the revisions to the final draft document and on the  
19 Appendix B.

20 That was passed out to the Committee and handouts  
21 were available to the public, and can also have additional  
22 copies made for anyone else who would like to see that  
23 document.

24 As Dr. Pitts and Dr. Glantz and Dr. Vance have  
25 pointed out, there has been an extensive review of the

1 individual chapters of this document.

2           Each document after being released was subject to a  
3 comment period, a workshop, close of the public comment  
4 period, about 45 to 60 days later, depending on when the  
5 document was released.

6           Comments were reviewed, and the document was  
7 revised. Now the review resulted in a variety of end points  
8 being identified as causes associated with Environmental  
9 Tobacco Smoke, and this included the developmental effects of  
10 low birth weights, sudden infant death syndrome, respiratory  
11 effects in children, and there are a number identified, acute  
12 lower respiratory tract infections, asthma induction and  
13 exacerbation, chronic respiratory symptoms, middle ear  
14 infections.

15           With respect to carcinogenic effects, the document  
16 reviewed studies published after the rather extensive review  
17 by the Environmental Protection Agency, but we also want to  
18 acknowledge in our documents additional comprehensive review  
19 with respect to this effect by the National Academy of  
20 Sciences and by the Surgeon General's Office.

21           These studies do not conflict with those earlier  
22 findings. We also found causal evidence for nasal sinus  
23 cancers.

24           With respect to cardiovascular effects, there is  
25 considerable evidence for heart disease mortality, and after

1 we released this document there was a very large heart  
2 disease study that confirmed what we have identified as a  
3 causal association.

4           There are a number of other end points for which  
5 there is some very suggestive evidence of a causal  
6 association.

7           For developmental effects, spontaneous abortion and  
8 adverse impact on cognition and behavior.

9           However, additional research is needed to confirm  
10 whether or not these suggestions in effect are fact.

11           In addition for respiratory effects exacerbations  
12 of cystic fibrosis and a decrease in pulmonary function.

13           We reviewed the evidence in response to public  
14 comments that were available on asthma exacerbation in adults  
15 and have actually changed our conclusion on that end point.

16           With respect to carcinogenic effects, there is  
17 considerable suggestive evidence for cervical cancer.

18           If we just focus on the end point for which there  
19 is a causal association and consider the degree to which the  
20 population in California might be impacted, we see that the  
21 impact appears to be considerable, with a large number of  
22 cases of chronic respiratory effects occurring as well as  
23 acute respiratory effects, as well as mortality, or SIDS,  
24 lung cancer and cardiovascular disease.

25           So, the impact is considerable. These are annual

1 impact figures on the slide.

2 For comparison with the EPA document, and with  
3 other figures or reports, we see that the annual impact in  
4 the US is also very sizable.

5 I will briefly go through the various chapters.  
6 With respect to exposure measurement prevalence, the  
7 Environmental Tobacco Smoke is a complex mixture with toxic  
8 constituents and there are about 50 Proposition 65  
9 carcinogens, and there are Twelve air toxic contaminants that  
10 have already been identified by this Committee, six  
11 reproductive and developmental toxins, and there are  
12 irritants and systemic toxins, and also there are a number of  
13 other agents for which there is suggestions of reproductive  
14 toxins and carcinogenicity.

15 The chapter on overuse, some of the issues with  
16 respect to exposure ascertainment, and epidemiological  
17 studies, and issues regarding questionnaires and surveys, how  
18 measurements of constituents are made, issues related to  
19 personal monitoring to identify exposure of cases or identify  
20 exposure in epidemiological studies and biomarkers, the  
21 exposure in California has been decreasing with respect to  
22 ETS, and the report reviews some recent reviews on this  
23 issue.

24 It reviews the prevalence trends in the general  
25 population and notes that for certain subpopulation, in fact,

1 exposure to tobacco smoke may, in fact, be on the rise, so  
2 that for certain subpopulations, one would not want to apply  
3 the general prevalence trends to characterize their  
4 exposures.

5           With respect to developmental effects and ETS  
6 exposure, there are prenatal manifestations which include low  
7 birth weight, which may compromise high risk infants.

8           Further research is needed to understand the role  
9 of Environmental Tobacco Smoke and spontaneous abortion and  
10 it is unclear whether ETS impacts utero, tube or other birth  
11 defects.

12           With respect to postnatal manifestations, postnatal  
13 ETS exposure is an independent risk factor for SIDS, the  
14 evidence suggests that ETS may impact neuropsychological  
15 development, and there is little or no evidence that ETS has  
16 any significance on height growth in children.

17           I think the information on reproductive, male and  
18 female reproductive effects can be characterized as being  
19 extremely limited.

20           ETS female reproduction tobacco smoke appears to be  
21 antiestrogenic. The impact of ETS on female fertility are  
22 not well studied so not much can be made from the information  
23 available there.

24           Possible ETS association with early menopausal  
25 identified but no conclusion could be reached with the type

1 of data available.

2 With respect to male reproduction, there is  
3 basically an absence of any information.

4 Respiratory effects and ETS exposure was reviewed  
5 at length in the EPA document. California reviewed the  
6 evidence and found acute effects in children for asthma  
7 exacerbation, lower respiratory track illness and middle ear  
8 infection.

9 Acute effects in adults are eye and nasal  
10 irritations and odor annoyance, and as we indicated earlier  
11 there is some evidence for exacerbation of adult asthma, but  
12 at this point the evidence is inclusive.

13 With respect to chronic effects in children, asthma  
14 induction and exacerbation, some evidence for impact on lung  
15 growth, and development and exacerbation on cystic fibrosis,  
16 in adults it may contribute with other insults to chronic  
17 respiratory impairment, which may effect that subpopulation  
18 in an adverse way.

19 With respect to cancer, as the earlier  
20 authoritative reviews did establish an effect in lung cancer  
21 and the recent studies provide additional evidence for that  
22 effect, with respect to nasal sinus cancer, a causal  
23 association with ETS exposure is identified.

24 A further study is needed to really establish the  
25 magnitude of the impact.

1           Cervical cancer, the epidemiological and  
2 biochemical evidence are suggestive of an effect, and since  
3 this report was released, there are additional studies that  
4 also provide suggestive evidence.

5           With respect to other cancers, recent suggestive  
6 studies on breast cancer indicate the need for considerable  
7 further investigations, perhaps ascertain a susceptible  
8 subpopulation.

9           There is insufficient evidence to draw any  
10 conclusion for stomach, brain, bladder, leukemia, childhood  
11 cancers.

12           For ETS in cardiovascular effects, there is  
13 increased risk of coronary heart disease mortality in  
14 nonsmokers exposed to spousal ETS, and clinical studies  
15 indicate ETS exposures cause a variety of effects related to  
16 coronary heart disease.

17           At this point I would like to acknowledge the many  
18 people that were involved in the development of this  
19 document.

20           Authors Anna Wu, who is not here with us today,  
21 Lynn Haroun, David Ting, Michael Lipsett, Gayle Windham and  
22 Kirsten Waller, they were the primary authors of this  
23 document.

24           In addition, a large number of staff in OEHHA have  
25 contributed substantially to this document, I won't enumerate

1 their names here. They are identified on the acknowledgment  
2 page, but it was a real team effort, and I want to thank you  
3 everyone involved in the effort.

4 I will go through briefly, the Appendix B. In  
5 fact, I will highlight some of the comments and the issues  
6 that we received from the public.

7 I wanted to note that we did receive considerable  
8 comment. There were basically 35 different submissions from  
9 individuals or institutions.

10 Phillip Morris submitted comments as an institution  
11 but also included its supported comments from a variety of  
12 individuals.

13 They were extensive, and many of these submissions  
14 were made with attachments. We basically had a lot of  
15 comments from these different groups.

16 Tobacco institutes commented as an institution, but  
17 also there were individuals who submitted comments, similarly  
18 RJ Reynolds.

19 From the general public, we have a host of comments  
20 as well. Some of which may have been sponsored elsewhere,  
21 but it was not identified in the submissions by the  
22 commentors.

23 We thank all of the commentors, because I think we  
24 really were able to look over these comments, review our  
25 previous conclusions with respect to the Environmental

1 Tobacco Smoke with respect to the large load of information  
2 of that submitted.

3 In some cases these comments did result in changes  
4 to the document and improvements to the document.

5 DR. FROINES: Could you describe how they came into  
6 the last vote, just for the record?

7 DR. ZEISE: The public comment period closed May  
8 5, and what that meant was that the document the postage was  
9 required to be postmarked by May 5.

10 We did receive a variety of comments one to two  
11 weeks after the close of the comment period.

12 The post mark date on the submissions were May 5.

13 DR. VANCE: We checked very closely.

14 DR. ZEISE: Okay.

15 DR. GLANTZ: Was the postmark a postal cancellation  
16 or was it a postage meter?

17 DR. ZEISE: Postage meter.

18 DR. FRIEDMAN: Tell us again the magnitude of  
19 comments in here.

20 Looks like three feet.

21 DR. ZEISE: Some of those were published articles  
22 that were submitted, I tell you that was extremely helpful  
23 because we did not have to go and dig out the public articles  
24 out of the literature.

25 If you remove those, maybe it was more like this.

1 DR. FRIEDMAN: For the record, it looks like you  
2 are holding two to three feet.

3 DR. PITTS: For the record, approximately a meter.

4 DR. ZEISE: Let me review the types of comments  
5 received.

6 They were extensive, so some of these types of  
7 comments received may not be reflected on the slide.

8 You do have the response to comment document where  
9 we went through the comments received and detailed them, at  
10 least summarized them.

11 A large proportion of the comments dealt with  
12 specific details regarding the way that we recorded and  
13 evaluated the studies.

14 Another set of comments dealt with the adequacy of  
15 the development of the document and the public comment  
16 process.

17 Another set of comments dealt with the adequacy of  
18 Appendix A, and I think at this point we feel pretty  
19 comfortable saying that if you group Appendix A and B  
20 together, we believe we have addressed all of the major  
21 comments received.

22 We also received a variety of comments on the  
23 objectivity of the document, issues were raised regarding our  
24 weight of evidence, and how conclusions were reached.

25 In this regard, there were some commentators felt

1 that you really could not use epidemiological research to get  
2 at some of the health effects that we were reviewing.

3           So that was a major comment in that regard by  
4 others. Another comment regarding the weight of evidence was  
5 with respect to the way that the META analysis information  
6 was being used in terms of reaching a conclusion regarding a  
7 health end point and it's relationship with ETS exposure.

8           There was also comments submitted regarding an  
9 attributable risk calculations and a variety of a comments on  
10 recent literature which was basically we tough point that we  
11 had to call an end to whether or not we were going to  
12 continue to review and release the document.

13           Very, very recent papers are not included, but they  
14 are discussed in the Appendix B document.

15           We received a variety of citations that really were  
16 directed at ancillary issues. Also, another large amount of  
17 submissions that were information about what we call the gray  
18 literature, either meeting proceedings or abstracts.

19           So, we reviewed all of the comments at length, and  
20 you have the document. We have made revisions to the final  
21 draft, which I will briefly characterize.

22           You do have the document where we indicate all the  
23 specific revisions that were made. We basically made  
24 additions to clarify points.

25           In addition, some details were provided and we

1 basically extended some of the discussions to include some of  
2 those details.

3 With respect to consideration of new issues, the  
4 attributable risk calculations, there were a series of  
5 comments on that, and we have included a section on  
6 attributable risk.

7 Also an additional new information with respect to  
8 misclassification, and we have provided greater discussion on  
9 misclassification, you can find this in the document.

10 There also is a change in conclusion as we noted  
11 earlier, asthma exacerbation in adults, we now know the  
12 evidence is somewhat suggestive. We basically are  
13 identifying it, it is inconclusive in the document overall.

14 Thank you, and I look forward to your questions.

15 DR. PITTS: Before we open it to questions, I  
16 welcome Jim Seiber who has made through the many perils of  
17 travel these days, right?

18 We appreciate your showing up and look forward to  
19 your comments.

20 DR. SEIBER: It is called the Bay Bridge here.

21 DR. PITTS: Yes, and you also missed the fact that,  
22 for the record, I did want to mention I thank all the Panel  
23 Members, including yourself, for all of your efforts for the  
24 last year.

25 It has been a very active and interesting year, and

1 I deeply appreciate it.

2 Okay. Questions?

3 Let's go to the lead persons. Again, for those are  
4 not familiar with the process, the key players in this entire  
5 evaluation are the lead persons that are appointed from the  
6 SRP, this forum, and interact with the staff on the various  
7 aspects of the science involved in the generation of these  
8 documents.

9 I have Dr. Byus and Dr. Friedman as the two leads.  
10 It is up to you two. The ball is both of your court.

11 DR. FRIEDMAN: I think that I am correct in saying  
12 that Craig is the main lead for the document, and I agreed to  
13 take the lead on the lung cancer.

14 DR. PITTS: Fair enough.

15 DR. BYUS: I would like to make a brief comment  
16 about how it was an extremely well written document.

17 This was on all grounds.

18 I have been on many grand review panels and NIH and  
19 many risk health assessments documents here on this  
20 Committee, and I can say this is definitely is one of the  
21 best documents that I have ever read.

22 It is very clearly written and described the way  
23 that it was approached very carefully. You chose the words  
24 carefully, and the ideas are brought out in a simple matter  
25 rather than overly complex, and the document does not ramble

1 around, and it is quite to the point, and it is a pleasure to  
2 read, even though it is quite long.

3 I spent, since I was out of town when I just got  
4 this last revision, I have read most of the Appendix B  
5 responses. I have not read every single one. I have read  
6 almost every one.

7 I do agree with everything that you have said, and  
8 there is nothing of substance that is actually new. I spent  
9 a lot of time reading responses and comments, and I think you  
10 did outstanding job, and I could not have done a better job.

11 It is very important issue as well. I commend you  
12 for bringing it even further up to date with additions of the  
13 several new articles which are very important.

14 So, I'm sure its status is the best thing out there  
15 now on ETS, and you should be very proud.

16 DR. ZEISE: Thank you.

17 DR. FRIEDMAN: I would second Dr. Byus's comments  
18 and commend the group on what a fine job they did.

19 In looking at the responses to comments, I tried to  
20 pay particular attention to those that I heard brought up at  
21 the February meeting, because they sounded plausible when  
22 they were presented, and you dealt with them well.

23 I personally have always been concerned about the  
24 question of confounding by actual smoking among supposed  
25 never smokers before exposure and I didn't feel that you

1 brought in a lot of new discussion, but I thought it would be  
2 good to summarize this and in this additional handout I think  
3 that out you did a nice job in expressing your overall view  
4 of this issue.

5 I appreciate that you added that.

6 DR. PITTS: Thank you.

7 Dr. Froines. We will go alphabetically.

8 DR. FROINES: No comment.

9 DR. PITTS: No comments. Okay.

10 Dr. Glantz, I would expect a possible comment from  
11 this source.

12 DR. GLANTZ: I also think you have done a superb  
13 job.

14 This is now the definitive document on the subject,  
15 and I think it will stand as such for a long time.

16 You should be very proud. I know that you people  
17 worked very hard dealing with this.

18 I do have a couple of minor things, because I am  
19 compulsive. In looking at this thin handout here, the  
20 response to the comments from myself and Gary, I notice that  
21 you randomized the order of the responses in order to confuse  
22 me.

23 There were few things that I suggested on the  
24 attachment one, most of which dealt with minor wording  
25 changes, I presume that you did all of those.

1 DR. ZEISE: Yes.

2 The things that we would like to change, we  
3 discussed in the handout.

4 DR. GLANTZ: Okay. Would it be accurate to say  
5 that there were a couple of places I suggested changing a few  
6 words, and I assume that you are going to make all those  
7 other changes?

8 DR. ZEISE: Yes.

9 DR. GLANTZ: And there were just a couple of things  
10 in the response to comments in Appendix B that I wanted to  
11 bring up.

12 On in page 4, this is of Appendix B, and since this  
13 is the response to comments I do not know how crucial this is  
14 in here, but I would like to point it out for the record, in  
15 the bottom paragraph, you have a statement here that animal  
16 models specifically designed to study ETS have only been  
17 recently developed, and the models in many of the older  
18 publication are questionable now, I suggest that you take  
19 that out.

20 I don't think that is correct to say there are  
21 newer models, but I think that the old one's were okay.

22 If you go to page 10, at the top, the response to  
23 comment number 8, where the comment was that the final draft  
24 does not meet the RAC recommendation and that uncertainty  
25 should be recorded.

1           But I think you have dealt very well with  
2           uncertainties by reporting confidence throughout the report.

3           I would just change the response and say we did  
4           deal with uncertainties. We were compulsive about it  
5           actually.

6           If you go to page 14, right before where it says  
7           Tobacco Institute, the last one, 2, 3, 4, 5 lines, I did not  
8           quite understand what you were trying to say there.

9           DR. ZEISE: It had to deal with the issue of  
10          latency tendency period for lung cancer, that exposure way,  
11          in the past decade are of relevance.

12          The issue of using a Z factor today, based on  
13          today's prevalence, needs to be carefully thought about with  
14          respect to lung cancer.

15          DR. GLANTZ: You may want to add a sentence to  
16          that.

17          I mean I agree with you, but that was not clear.

18          Then on page 17, at the bottom, there are several  
19          places in Appendix B where you refer to the Kawachi study,  
20          and it has now been added to the document, so throughout the  
21          appendix when you refer to the Kawachi study, and also the  
22          Cardinas study, which has also been added, just add a  
23          sentence that says this is added to the document, because I  
24          think that shows responsiveness.

25          I'm just -- I'm just thumbing through here. I

1 will be very quick, Jim.

2           There are a couple of quick items.

3           DR. FROINES: While he's looking, I did have a  
4 question for this that is minor on page 2-18.

5           DR. ZEISE: 2-18.

6           DR. FROINES: Yes, section 2.4.5.

7           It is just a minor point, and it is really for me,  
8 not necessarily. I found that first paragraph on  
9 4-aminobiphenyl, I was not sure what was the conclusion I was  
10 to draw from that, in terms of how one views the issue of  
11 4-aminobiphenyl.

12           DR. ZEISE: Let me review this, it has been a  
13 while.

14           DR. FROINES: I think it is an interesting  
15 compound, important compound.

16           DR. ZEISE: Very much so.

17           In fact, we looked at the variations of  
18 pharmacokinetic analysis of DNA adduct formation across  
19 individuals in the population you see a considerable spread  
20 for some populations depending on the study.

21           DR. FROINES: That is why I was not clear this  
22 covered everything on the subject.

23           DR. ZEISE: Why don't we look at that in this  
24 regard with respect to subpopulation issue in particular, and  
25 I think Dr. Friedman mentioned the cigarette smoking the

1 other day.

2 We will look with respect to that issue.

3 DR. FROINES: The way that it is written in terms  
4 as to what this one should include.

5 DR. SEIBER: Go to page 81.

6 DR. ZEISE: I think Amy has something to say.

7 DR. DUNN: The main point that was intended to be  
8 made with that section is that with respect to, often the  
9 argument is made that because you do not see the same levels  
10 of coatening in nonsmokers as you would expect, given what  
11 appears to be the effect level in nonsmokers compared to  
12 smokers, in comparing the biomarker coatening levels you do  
13 not see the effect, or you don't see the levels of coatening  
14 that you would expect, but if you look at formula biphenyl  
15 you see that there are much higher exposures to formula  
16 biphenyl to nonsmokers than in the mainstream smoke.

17 So that in comparison for the different biomarkers,  
18 you can't linear correlate with coatening.

19 I think that is the main thing.

20 DR. FROINES: I may want to look at that and make  
21 sure it is clear.

22 That was clearer than I think this is.

23 DR. SEIBER: Okay. On page 81, and 82 and 86,  
24 there are things that you say you added text to the report,  
25 and it did not appear in the June 6 document.

1           So you should make sure that you add it. You had  
2 the June 6 document with all the changes in response to  
3 comments, those, at least when I read it, in Appendix B to be  
4 specific, you didn't actually say that you added it, but I  
5 don't think that you included it in the other document.

6           DR. ZEISE: In the revisions document. Okay.

7           DR. SEIBER: I thought you would just make sure.

8           I thought what you said was fine.

9           Then if you go to page 150, and actually there are  
10 several commentors that made the point that the Schwartz Lung  
11 Cancer Study should be included, is there any reason not to  
12 include it the document?

13           DR. ZEISE: If you would like we could add, you  
14 already asked for the Cardinas Studies to be added, if you  
15 would like we could add the study.

16           DR. SEIBER: Will adding those change the  
17 conclusion of the report at all?

18           DR. ZEISE: No, and we discussed that in Appendix  
19 B.

20           DR. SEIBER: In fact you have, and I think you  
21 should take the material from Appendix B where you discuss  
22 the Schwartz and the other reports, and move them into the  
23 document with appropriate editing for flow and stuff.

24           DR. ZEISE: I think that what we would like to do  
25 is to do editions, basically stay on the discussion somewhat

1 and just be more careful with the wording for the main  
2 document, a bit more editing.

3 DR. SEIBER: Again several commentors suggested  
4 that, and it seemed reasonable to me.

5 On page 156, the bottom of, the commentor talks  
6 about a couple of new cervical cancer studies.

7 The same comment applies here, why is it hard to  
8 add those into the document?

9 For points of completeness and responsiveness.

10 DR. ZEISE: We can add them.

11 DR. SEIBER: Will you.

12 DR. GLANTZ: Will it change the conclusions at  
13 all?

14 DR. ZEISE: No.

15 DR. GLANTZ: I think that for completeness I would  
16 make sure that in Appendix B, you make sure that it is added  
17 to the main document.

18 On page 175, the last response, you say we have it  
19 remains debatable whether using nonsmokers not exposed to ETS  
20 is the correct baseline for such comparisons.

21 Actually I think that is a good idea, one of the  
22 strains in the recent breast cancers studies and the Kawachi  
23 Heart Disease Study was they had nonexposed, nonsmokers as  
24 their control group.

25 I think it is clear that using nonexposed,

1 nonsmokers is the best control group. I think that sentence  
2 should be taken out.

3 Is that okay.

4 DR. ZEISE: We will replace that with another  
5 sentence.

6 DR. GLANTZ: I think that was too strong. Some of  
7 the things several people raised the same issue, and we have  
8 already dealt with.

9 At the bottom of page 195, where you talk about the  
10 limitations in the Layard Study, the second to last  
11 paragraph, the last full paragraph, I can't recall; is that  
12 information in the main document?

13 DR. DUNN: Yes.

14 That information is in the document.

15 DR. GLANTZ: Okay.

16 On page 205, you are responding to comment number  
17 two there, this refers to the sentence that I asked you to  
18 take out about oxidant gases, the oxidants of cigarette  
19 smoke.

20 My reading of the evidence on why ETS effects  
21 vascular function has to do with interfering with the nitric  
22 oxide. I think this is --

23 I think that the commentor is right when he says it  
24 is not likely oxidant gas exposure from passive smoking is  
25 causing these vascular effects, but that is not what people

1 think any more, that is what people thought awhile ago.

2 You need to change the response.

3 DR. ZEISE: Okay.

4 DR. GLANTZ: That is it.

5 DR. ZEISE: Thank you I appreciate the careful  
6 read.

7 DR. PITTS: Okay. Dr. Seiber.

8 DR. SEIBER: I will not repeat again what a great  
9 document it is, it really is good, and I showed it to the a  
10 few colleagues who said the same thing.

11 From an academic point of view, there are a number  
12 of researchers who will be very happy to see, if nothing else  
13 the literature.

14 DR. BYUS: Maybe you could add a preface to the  
15 fact document commenting what a great job they have done.

16 DR. SEIBER: I have one.

17 DR. GLANTZ: Can I say one thing for the record?

18 Several of the commentors complained that this  
19 document was not up to the standards of the RAC Report, and  
20 since you were the Chairman of the RAC Report Committee, I  
21 can ask that you to address that in a generic criticism,  
22 whether you think it was up to the standards.

23 DR. SEIBER: You took the words right out of my  
24 mouth.

25 DR. PITTS: That happens.

1 DR. SEIBER: One of the comments were the RAC  
2 recommendations followed, and of course, I did not go  
3 recommendation by recommendation, and furthermore, it is an  
4 interesting point that I don't know that there is any  
5 requirement that the RAC recommendations be followed, because  
6 the Calderon bill did not say that we needed to go backwards  
7 in time. It did not give a time table for implementation.

8 I believe Dr. Becker is leading an implementation  
9 group to see that this happens. I guess the philosophical  
10 question would be.

11 Does it matter?

12 Secondly, a more general question, or answer, would  
13 be yes, I think so, and certainly, with regard to peer  
14 review, and public comment, involvement of parties and  
15 sufficient hearings.

16 But that is only one of many, many,  
17 recommendations. I guess to be specific on recommendations,  
18 I did not go back and check each recommendation against what  
19 is in the record.

20 DR. GLANTZ: Would you say it is up to the  
21 standards that the Committee was hoping to see.

22 DR. SEIBER: Certainly as far as good science,  
23 sound science, it is an extremely extensive review of the  
24 scientific literature, nothing was left out.

25 There is no last minute pieces of information that

1 I can judge, and I think that I pick it up in your comments  
2 as well.

3 In that regard, I think if you track the general  
4 recommendation of the record, I would say that it followed  
5 the recommendations.

6 DR. PITTS: I just have a couple.

7 DR. SEIBER: Go ahead, Jim.

8 DR. PITTS: I thought you were done.

9 Continue.

10 DR. SEIBER: One question that occurred to me when  
11 I read the report and comments and so forth, we may get to it  
12 when we talk about our recommendations, the sentence in the  
13 Executive Summary, under General Findings, pretty much  
14 summarizes it and it says, ETS is an important source of  
15 exposure to toxic air contaminants indoors.

16 So, my question, fairly obvious, does that mean  
17 that it is not important outdoors, is there data, is there  
18 either exposure measurements, or health studies that were  
19 conducted on exposures of people who got their primary ETS  
20 exposure out of doors?

21 DR. ZEISE: As you know, epidemiologically, it is  
22 very difficult to study Environmental Tobacco Smoke because  
23 of the many sources.

24 There are a variety of studies that looked at  
25 exposure at work. The extent to which the exposure occurred

1 outdoors at work, we would have to look at that specific  
2 issue.

3           There are certainly exposure studies that look at  
4 measuring exposure outdoors.

5           DR. SEIBER: Can you venture an opinion on -- well,  
6 let me ask you this way, did you mean to exclude outdoor  
7 exposures in most of the conclusions and summary of the  
8 document?

9           DR. ZEISE: We did not mean to exclude it, but we  
10 did not address it specifically.

11           DR. GLANTZ: This is a point that I missed.

12           Is it better to just delete the word indoors right  
13 there.

14           DR. SEIBER: Partly it is a lack of knowledge on my  
15 part.

16           I can see where most of the epidemiology was  
17 probably on people who got the primary, if not sole exposure  
18 indoors.

19           Yet, we have all been in situations where we were  
20 around ETS out of doors. I don't know how important it is in  
21 some occupations I expect it could be important.

22           For me it is kind of a question that dangles there  
23 and is not addressed in the report.

24           DR. GLANTZ: I think that there is not much  
25 evidence in looking at outdoor exposure, but I think that the

1 document would be clearer to delete the word indoors.

2 It is not like most indoor exposure comes from ETS,  
3 but outdoors there are other things, if you look at the total  
4 burden of toxics chemicals, and we will get to this when you  
5 get to the findings that ETS is major source of exposure when  
6 you compare it to outdoor exposures of stationary sources.

7 Why not delete the word indoors. Are you happy  
8 with that?

9 DR. SEIBER: I don't know about that, I do not know  
10 if there is data to support the deletion.

11 Can we really say it is an important of exposure to  
12 TAC's, air contaminants outdoors, and you would have to look  
13 at the relative amounts of the different sources.

14 I see Peggy Jenkins coming up, and she may have  
15 some data.

16 DR. ZEISE: Peggy has done considerable work on  
17 this with respect to the exposure part of the problem, so I  
18 would like to introduce Dr. Peggy Jenkins from the Air  
19 Resources Board.

20 DR. JENKINS: Thank you.

21 Actually, I was just pointing out some numbers that  
22 are in the report, from an old activity pattern survey that  
23 is addressed in the ETS document.

24 We did look at, from our survey research in the  
25 late 80's, the percent of exposure, the number of minutes per

1 day, to which people were exposed to ETS in all different  
2 locations.

3 DR. DUNN: Page 2-40.

4 DR. JENKINS: Based on our data back in the late  
5 80's, you can see even then there was about Twelve or 13  
6 percent outdoor exposure for females, and 16 to 24 percent  
7 exposure was for males.

8 That was across their the day, it included work  
9 place, we did not break it down work versus home.

10 This kind of information is in the report. The  
11 difficulty is, of course, over time with the rules changes,  
12 and the fact that people are now stepping outdoors more to do  
13 their smoking, I would say, just offhand, probably the  
14 percentage of exposure, relatively speaking, has gone up  
15 outdoors and down indoors.

16 But I do not know of any current data that are  
17 looking at that. I do not know if that directly.

18 DR. SEIBER: I saw the pie charts, but that does  
19 not really talk quantitatively, and I could not tell whether  
20 that was important for a concentration point of view or not.

21 DR. JENKINS: That does not allow you to calculate.

22 DR. SEIBER: That is a good question that you  
23 raised whether it has gone up and down.

24 DR. GLANTZ: Getting back to deleting the word  
25 indoors, I think that would be clearer actually, because we

1 are saying it is an important source of exposure period.

2 We are not saying it is an important source indoors  
3 and outdoors, just that it is an important source.

4 DR. SEIBER: An alternate would be to say that ETS  
5 is a source of exposure to toxic air contaminants indoors and  
6 outdoors and add something on particularly the data with  
7 regard to indoor, so we don't leave it out, but I do not know  
8 whether simply deleting the word indoors would be scientific,  
9 whether we could defend that.

10 We are still on the executive summary, this is the  
11 first sentence under general findings on page ES-1.

12 DR. GLANTZ: I do not want to delete the word  
13 indoors.

14 It is very important source for a lot of people it  
15 is the main source of toxic exposure, that would be  
16 misleading, if you wanted to add something to the end, and  
17 say something like perhaps out doors, or a parenthetical  
18 statement that says there is not adequate data to assess  
19 outdoor smoke.

20 DR. SEIBER: I would prefer that. I would leave  
21 the sentence as is and add a statement that, either it could  
22 be, or there is inadequate data, or something, so we do not  
23 address outdoor exposure.

24 DR. PITTS: I think we can certainly do that.

25 It seems to me that in making the point that the

1 major source is indoors, that is probably where you find it  
2 most of the time.

3           If there is exposure, and that seems to be one of  
4 the major concerns, I don't understand all of the biochemical  
5 technology, and so forth, and so on, and the toxicology, but  
6 it is important with the children at the high levels.

7           You have to think not only the actual  
8 concentration. Why don't we leave it indoors and add a  
9 qualifications statement or something like that.

10           DR. SEIBER: Something that addresses outdoors.

11           I saw that you are going to bring the report back  
12 to SRP.

13           Is that correct?

14           DR. GLANTZ: This is it.

15           DR. PITTS: The second sentence, the exposure in  
16 the home.

17           DR. GLANTZ: How about adding a sentence or a  
18 parenthetical statement that says, there is also some  
19 exposure outdoors.

20           DR. ZEISE: That we can do.

21           DR. GLANTZ: And.

22           DR. SEIBER: And your pie charts tend to support  
23 that, so you have some data.

24           DR. PITTS: Fine.

25           DR. SEIBER: On the same line, and I do not want to

1 beat it over the head, is there a good definition of indoor  
2 versus outdoor, suppose you are sitting in the car with the  
3 windows down, is that indoor or outdoor?

4 DR. PITTS: When it rains, do you get wet?

5 I'm on the experimental list. You can model it. I  
6 just stick my hands out.

7 DR. SEIBER: It seems like not a very important  
8 point, but the law 1807 specifically talks about outdoor,  
9 seems to make some kind of discrimination between indoor  
10 versus outdoor, and this is a more general question for me.

11 DR. GLANTZ: Well, I think you are beating a little  
12 bit of a dead horse here.

13 The clarification that you suggest is fine, but to  
14 get into a debate of what indoors means in this context is  
15 silly.

16 DR. SEIBER: I am happy to leave it in this source,  
17 but I think that we need to talk about it at some point.

18 It has been a poorly defined point in a number of  
19 our debates.

20 DR. FROINES: I agree, I think that there are a lot  
21 of complex issues that we are talking about right now.

22 I will give you an example. Formula biphenyl is a  
23 habit. It is a very important carcinogen primarily because  
24 of cigarette smoking as was said earlier it is not know to be  
25 admitted in California according to the ARB, but we know in

1 fact that it is admitted in California because we are having  
2 this discussion.

3 So, the question is an interesting question do we  
4 now take up formula biphenyl as a toxic air contaminant in  
5 the outdoor air because of its emission from the  
6 Environmental Tobacco Smoke.

7 We are bordering on tricky questions that we have  
8 to address at some point. For the sake of time and effort,  
9 it is time to move ahead.

10 DR. SEIBER: I am happy to move ahead.

11 I think that we all know that it is in the home,  
12 and parental smoking, is the major source of children and  
13 infants are indoors most of the time.

14 I am happy with that.

15 DR. PITTS: It is just a general question.

16 Whether you develop a risk assessments document and  
17 then apparently you are discussing the risk assessments of  
18 the entire individual, that implies indoors and outdoors, and  
19 for example, it seems to me, we already faced this some years  
20 ago, and Peggy Jenkins, I want to thank her again for the  
21 excellent work that you and your group and your contractors  
22 have done and the others that are working on indoor air  
23 pollution and establishing exposure levels characterizing  
24 these mixtures, very complex mixtures, and we are talking ETS  
25 and other factors, we are talking about a complex mixture.

1           We have a document that used to exist in 1992 that  
2    came out of formaldehyde, and the exposure flying over the  
3    whole state might be four or five PPB's or something of that  
4    order.

5           The highest level ever seen, identified as the  
6    worst smog attack in history, where the ozone level was 450  
7    parts per billion, and the highest level identified by Dr.  
8    Froines, by Dr. Kazan was about 80 PPB.

9           Well if you look indoors, and for an example a real  
10   concern would be the new schools, the temporary housing, the  
11   mobile homes, that we use to house children, under the new  
12   Governor's program we need more school rooms, then you look  
13   at the paneling, you look at the indoor concentration, and  
14   they do not drop to zero in a short period of time, and you  
15   really have a case where we did talk about indoor, it wasn't  
16   a major source, certainly again for children, so this is not  
17   a special case here.

18           It is subject that we could bring up in terms of  
19   more general, did you have any other comments.

20           DR. SEIBER: I think you mean for formaldehyde and  
21   that sort of thing.

22           DR. PITTS: Are there any other comments?

23           DR. SEIBER: The point is you cannot separate  
24   indoor versus outdoor because there are gray areas where we  
25   all live in both environments, so I find it rather artificial

1 that we have had to make those kind of distinctions.

2 DR. PITTS: We did the document here.

3 Do you have any other questions?

4 DR. SEIBER: It just a general comment, and I don't  
5 think it is question that requires any change.

6 That is the title of the second chapter has the  
7 word prevalence in it. Prevalence is more of a medical  
8 incident type of thing, and I do not want to use the word  
9 prevalence when we talk about chemical concentrations, where  
10 we really need the concentration data.

11 I was thumbing through here and prevalence seemed  
12 to refer to the percentage of people who were in different  
13 situations.

14 That is okay in that case. That is all, Jim.

15 DR. PITTS: Okay. I have a couple of comments as  
16 Chair, maybe put a little more perspective.

17 Peggy, could you tell us roughly how many  
18 compounds, toxic compounds, have we in this Panel over the  
19 past Twelve years in existence, identified as toxic  
20 contaminants.

21 How many of those are found in ETS?

22 DR. ZEISE: Twelve, I believe there are twelve.

23 DR. PITTS: Okay. Twelve.

24 That is a very interesting point. When we talked  
25 about the tobacco company being a complex mixture, that would

1 very obviously be in the concentrations.

2 DR. ZEISE: I should say there are a number of  
3 additional chemicals listed under Proposition 65.

4 DR. PITTS: Yes, that must be up to 30.

5 DR. ZEISE: Over 50.

6 DR. PITTS: That is good to have on the report.

7 From a perspective point of view on this, when was  
8 the last risk assessment published of this nature, and by  
9 what agency or group, was the EPA, what were the dates of  
10 those?

11 In other words, is this a very timely document,  
12 that is updating, making it over some period of years,  
13 bringing a real update to this whole field?

14 DR. ZEISE: The EPA document was published in  
15 1992.

16 They focused on the respiratory impact although  
17 they did review some information on cardiovascular effect.

18 It basically made remarks on that regard, and did  
19 not make remarks with regard to SIDS, but basically it  
20 focused on the respiratory outcomes.

21 The Surgeon General's report was in 1986 and the  
22 NRC report was 1986 as well.

23 DR. PITTS: Okay. Good.

24 One last comment that you should be sure to have on  
25 the record, and you mentioned going back to the 1992, the

1 original agreement set up between the Air Resources Board and  
2 that was the Department of Health Services, DHS, in a year or  
3 two, with the health group that was set up between the Air  
4 Resources Board basically, and the OEHHA on the basis from  
5 the letter from this Panel suggesting that it would be useful  
6 to have ETS reviewed, and there was agreement that it would  
7 be carried out.

8 I thought it was clear that in the agreement, is it  
9 not a typical 1807 tack, that in that the results of our  
10 discussion today, or whatever action will be taken in a risk  
11 assessments side, as far as Air Resources Board is concerned  
12 they have no legal requirement or mandate, to take risk  
13 management action, that is not their purview or  
14 responsibility.

15 Am I right?

16 DR. VANCE: I will defer to the Air Board.

17 DR. PITTS: Well, I think that is important because  
18 for everyone with 1807, would you, I think I might be correct  
19 on that, but I would like it from the bias.

20 EXECUTIVE OFFICER KENNY: My name is Mike Kenny,  
21 Executive Officer from the Air Resources Board.

22 There is a letter that was sent to you, Dr. Pitts,  
23 in 1992, it was distributed among the members of the SRP, and  
24 what it did was it eliminated the review of the ETS, going to  
25 an 1807 like process.

1           It was agreed at that time that ETS would not go  
2 into the formal 1807 process, so therefore it would not come  
3 to the Air Resource Boards for formal identification as a  
4 TAC.

5           That was the original agreement that we arrived  
6 at.

7           DR. GLANTZ: Does that mean when we take action on  
8 this report that it will be the final action?

9           EXECUTIVE OFFICER KENNY: It does not have to be.

10           Whether or not there is an appropriate  
11 informational item it should be presented to the Air  
12 Resources Board with regard to ETS.

13           It does seem to me that it would be appropriate for  
14 this particular information that has been conveyed to you  
15 today, if approved by you, to be presented to the Board at  
16 one of the meetings, so that the Air Resources Board can hear  
17 this information, and also so that we have the appropriate  
18 risk managers at the Federal or State level to hear the  
19 information and take the information and use it as  
20 appropriate.

21           DR. GLANTZ: But what would happen, if that were to  
22 be the case, I'm not, I don't have a problem with what you  
23 are suggesting, but I want to make sure we understand the  
24 procedure.

25           Basically, we would, if we approve this document

1 today, the document is then finished in terms of the content,  
2 there would be no further changes to the document by anybody  
3 else.

4 EXECUTIVE OFFICER KENNY: That's correct.

5 DR. GLANTZ: You would take the final document as  
6 approved by us to the ARB and present it to them, and whoever  
7 else you have there, as an informational item.

8 ARB may make a statement or might not, but the  
9 document itself, if we walk out of here with an approved  
10 document, it is then done.

11 EXECUTIVE OFFICER KENNY: That's correct.

12 DR. FROINES: I think that is good idea.

13 This is an extraordinary document. I think that it  
14 represents the state of the art to call it to the attention  
15 to the ARB is a good idea.

16 DR. PITTS: We appreciate those comments and that  
17 is a very thoughtful and useful suggestion.

18 DR. GLANTZ: Given that we have a rancorous  
19 discussion about lead, which we will get to I'm sure, I'm not  
20 trying to give the Chairman a stroke here, I think for the  
21 record, it would be worth pointing out that there appears to  
22 be a consensus between the Panel and the ARB management on  
23 how to move this report forward.

24 DR. PITTS: The ETS.

25 DR. GLANTZ: Yes.

1 DR. PITTS: We appreciate the suggestion and it is  
2 an important one and we will look forward to, actually as I  
3 understand, you may want an informal presentation, and should  
4 they like an informal presentation, I'm sure I could speak  
5 for the Panel that we will be happy to informally with a  
6 clear understanding that there are no risk management  
7 implications to the ARB if you would like to do so.

8 EXECUTIVE OFFICER KENNY: We will look at the  
9 schedules and try to schedule an informational hearing with  
10 the Board as soon as we possibly could do that.

11 The idea then is that SRP would be present as well  
12 as the ARB representatives.

13 DR. PITTS: The operational informational hearing  
14 and we would refer to it then.

15 DR. FROINES: I need to ask a question. This is  
16 really a question for Peggy Jenkins, my question is would you  
17 agree then that the issue of outdoor Environmental Tobacco  
18 Smoke is one that needs further quantitative evaluation at  
19 this time to look at dose related exposure.

20 EXECUTIVE OFFICER KENNY: I would defer to Peggy on  
21 that because I don't have the background to answer that  
22 question.

23 DR. SEIBER: I can see one place we might get into  
24 that and you brought it up yourself. Twelve of these  
25 chemicals in this complex mixture are already TACs.

1           But presumably there are others in there that ones  
2 that we should be concerned about that are not TACs yet, and  
3 maybe they are not even on the federal TACs list.

4           We might want to look at those because we are  
5 prioritizing any way, and make sure that the priority list  
6 that OEHHA is working up might consider those.

7           I have gone back to see if some are on the  
8 candidate or priority list. That is something to be aware  
9 of.

10           DR. FROINES: My question was really, I was just  
11 wondering she thought or others thought that it would be good  
12 to get some investigators, academic, governmental, or what  
13 have you, to collect some further information on outdoor  
14 exposures, because, my guess is that there are still dose  
15 related issues that are unknown.

16           That would be a signal to academic investigators to  
17 take it up as an issue.

18           DR. JENKINS: I'm not sure I have the knowledge of  
19 the piece of a puzzle. My group handled the public phone  
20 call complaints regarding increased exposure in doorways and  
21 in areas where smokers congregate outside in either work  
22 places or public buildings.

23           In the state we have made a great step forward that  
24 other states haven't yet made, in terms of having our  
25 workplace regulations in place that do prohibit smoking in

1 most work places.

2 I do personally believe some of the problem has  
3 moved to the outdoors, so I think that additional information  
4 on the relative exposures would be useful, and along those  
5 lines we really do not know, we know that people are exposed,  
6 but we do not know the degree of exposure, how much are they  
7 really inhaling.

8 We know it irritates them, but whether those  
9 exposures are high enough concentrations, or long enough  
10 across a day, and across a lifetime to have an impact is  
11 questionable.

12 There are various sort of regulations that are  
13 being put into place and policies with the state.

14 I know that with state buildings there is a  
15 requirement that smokers are supposed to smoke a certain  
16 distance from the entry way so that people can go in and out  
17 without being impacted.

18 I do not believe that is true in most of the  
19 private sector buildings. Additional information would be  
20 very useful, it is not good to move the problem from one  
21 location to another, I think, fortunately in our state, the  
22 exposures have gone down somewhat, but it has not gone away.

23 DR. PITTS: On that line it seems that this is an  
24 important question and worthwhile question, do you know of  
25 any research that is going on, well planned, well

1 characterized, and well conducted research that could address  
2 the issue, because this might we will be something that will  
3 be worth commenting on, that the Panel will be in support  
4 of.

5 DR. JENKINS: I'm not aware, but probably Dr.  
6 Glantz is more current on who is doing what at right at this  
7 time than I am.

8 DR. GLANTZ: I was looking at something, I am  
9 sorry. What was the question?

10 DR. PITTS: Is there any research currently being  
11 conducted that would actually give some numbers, that might  
12 respond to the point.

13 What we were discussing what the outdoor versus the  
14 indoor under a variety of conditions, something that would  
15 well characterize the study and so forth.

16 DR. GLANTZ: I am not aware of any, but it is not  
17 something that I have much thought about, but I think that it  
18 is actually something that is worth looking at, this might  
19 yet end up back in the ARB lap.

20 Because, when people do walk through these smoking  
21 walls that occur outside the buildings you do get a blast of  
22 exposure for a short time, but people can get heavy doses.

23 It is an interesting question and somebody ought to  
24 study that. Right now Stanford is doing a lot of exposure  
25 studies.

1 DR. ZEISE: I think Cathy Hammond is.

2 DR. GLANTZ: Right, at UCB.

3 DR. PITTS: Just checking with the liaison man  
4 here.

5 DR. FROINES: May I ask a technical question.

6 DR. PITTS: If there are no comments, Craig turn  
7 the program over.

8 DR. FROINES: There is a lot of negative views to  
9 this new data and there are a small number of subjects, and a  
10 lack of consideration of dietary factors, and I suspect there  
11 are also some responsive issues that I wouldn't put in  
12 there.

13 DR. ZEISE: Charter 2.

14 DR. FROINES: Is it is minor and we have a huge  
15 agenda.

16 DR. PITTS: Okay. Lets move on.

17 DR. BYUS: I tried to get most of the comments, and  
18 I did not get most of the comments.

19 There are a few of them that are not included in  
20 here, and if we go over that right now and hopefully accept  
21 the findings.

22 I will just tell you what to combine with other  
23 people. There are a few wording things that I will not go  
24 into, I will talk to you later.

25 One of them, find 1, ETS, we should say that

1 Environmental Tobacco Smoke in the first findings so not to  
2 confuse them.

3           The other question was on number 7, that is, do we  
4 want to say the final sentence says, recent epidemiological  
5 studies now have demonstrated that postnatal ETS exposure is  
6 an independent cause of SIDS, and is it really or a risk  
7 factor.

8           One of the commentators suggested not to use the word  
9 cause, since we do not know what the cause of SIDS is.

10           It seems that it would be better to put it down as  
11 a risk factor. If we use the word causally associated, that  
12 is different than the word cause.

13           DR. GLANTZ: Why don't we just say that, or change  
14 it to say instead of, is an independent cause of SIDS, say it  
15 is causally associated with SIDS.

16           Is that okay?

17           DR. FRIEDMAN: What is the difference?

18           DR. GLANTZ: It makes him happy.

19           DR. BYUS: Thank you.

20           DR. FROINES: I think that my question for Gary as  
21 a matter of epidemiology is; what is the appropriate  
22 scientific finding?

23           DR. FRIEDMAN: I do not know that literature well  
24 enough to say whether I would conclude it was causal.

25           I know that they put in the report that it was now

1 distinguishable in prenatal exposure, but I do not know that  
2 it has been shown that it is not confounded with some other  
3 causal factor for SIDS, and that is why smoking seems  
4 associated.

5           So I think that, if one can say that, that it is  
6 causal, but if you can't distinguish it from other causal  
7 factors with SIDS then I think that I would feel more  
8 comfortable with saying that it was associated.

9           DR. GLANTZ: I think that the report has done a  
10 nice job of showing that you can distinguish it.

11           There is some pretty good literature out there now,  
12 especially in a couple of recent studies.

13           In fact, in talking to the people at the EPA they  
14 are now saying, they said the more recent data were available  
15 when they did their report they would have used causal.

16           Okay. Well leave it as is. That causally  
17 associated did not mean the same thing as independent cause.

18           DR. FRIEDMAN: It does to me.

19           DR. BYUS: Okay. Sorry. Leave it as it is then.  
20 All right.

21           DR. FROINES: I think that the important issue  
22 which is scientific, this is the findings of scientific  
23 review panel, this is not the findings of the state, and so  
24 this panel as a matter of science has to draw that  
25 conclusion, and the view the epidemiology statistics needed

1 to draw that conclusion.

2 DR. GLANTZ: I think that the evidence is there to  
3 say causal.

4 DR. FRIEDMAN: I can't contradict that because I do  
5 not know the evidence.

6 DR. GLANTZ: I am comfortable with that.

7 DR. BYUS: I really wasn't, but the evidence was  
8 there to causal association, but semantically they did not  
9 know what the cause of SIDS was.

10 DR. FRIEDMAN: That is the way that the tobacco  
11 companies have been arguing, that we do not really know the  
12 cause of lung cancer, therefore smoking is not associated.

13 So, there are always multiple causes, if something  
14 could be an independent cause, which is causally associated  
15 with.

16 DR. BYUS: Fine, leave it.

17 DR. FROINES: I am raising this about this issue,  
18 but also as a generic issue. The findings of the SRP need to  
19 be scientific findings that we feel comfortable with as  
20 scientist, and that we then say that.

21 We can't simply say we affirm what OEHHA has said.  
22 We have found, as a scientific body, this is the case.

23 DR. GLANTZ: This is the literature that I have  
24 been following closely, and I am very comfortable with the  
25 statement.

1 DR. FROINES: That we are confident in our  
2 findings.

3 DR. GLANTZ: The issue of confounding and the  
4 effects of interuterero exposure are important and confounding  
5 factors at the time that the EPA looked at this, but since  
6 then there have been two or three big, well done studies  
7 published, and carefully controlled for those effects.

8 That combined with the earlier evidence is what  
9 supports this statement.

10 DR. FRIEDMAN: And they control further potential  
11 compounding socioeconomic status?

12 DR. GLANTZ: Yes there were two really big studies  
13 one was done at UCSD and one was from England.

14 DR. BYUS: Okay. I agree with you, it was  
15 semantic, it was not a scientific difference.

16 DR. SEIBER: I'm interested in this number 7,  
17 because somebody brought up earlier whether there were risk  
18 management consequences, or things that could be done, or  
19 things that could lower the risk.

20 Since it says in number 7, prenatal or postnatal  
21 ETS exposure and it does not say what the sources are from  
22 prenatal to maternal active smoking before birth, which makes  
23 a lot of sense.

24 There are situations, I'm guessing, I think there  
25 are, where children are cared for postnatal by care

1 providers, and that might in fact be a type of risk  
2 management that could take place at least an informational  
3 item for people that care for young children there should not  
4 be smoking in and around where the kids are.

5 DR. GLANTZ: In fact, the current DHS can anti  
6 smoking advertising campaign highlights SIDS and infants,  
7 basically saying don't smoke around them and don't let other  
8 people smoke around them.

9 DR. BYUS: Sure. The other main comment that I  
10 received from most people was concerning Tables 1 and 2, that  
11 is shown under comment 18.

12 The current, what we were attempting to do was to  
13 provide some perspective on the risk of Environmental Tobacco  
14 Smoke compared to the other compounds in the studies from the  
15 past.

16 In an attempt to do that Environmental Tobacco  
17 Smoke for example has been added the bottom of the Table 2  
18 Cancer Potency Table.

19 Unfortunately, the way that it is done is in a  
20 different number and a different unit of anything above it.

21 So really it can not be added easily to that  
22 Table. In addition to the cardiovascular unit risk Table,  
23 Table 1, as well.

24 What we are trying to do is to provide some  
25 perspective on what it's potency was. What I believe Dr.

1 Glantz has come up with, somewhere here, is another Table,  
2 which I believe you have a copy of.

3 Do you have a copy of the estimated cancer causes  
4 lifetime ambient, the Death Table, how many deaths in the  
5 State of California, do you have that?

6 And even though that is not complete in the sense  
7 that there are missing numbers that need to be added, I think  
8 that it does provide a perspective of where ETS fits in,  
9 certainly for cancer.

10 As to the other compounds I think that we can  
11 replace Table 1 and 2 with this kind of Table, that would be  
12 a good idea, so that is what I am suggesting.

13 DR. FRIEDMAN: What would you say about ETS on  
14 these Tables?

15 DR. GLANTZ: Let me talk to that, I do not know  
16 which staff person, is there some staff person here, who  
17 whoever put this Table together with great hysteria, okay, no  
18 one will cuff to it.

19 Here is what the suggestion was. When I looked at  
20 the findings, when I saw them a couple of days ago, I had the  
21 exactly the same reaction to Tables 1 and 2 that Craig did.

22 If you recall, when you deal with tables, the  
23 reason we created those tables was to show the relative  
24 toxicity of the different THC's that we have dealt with.

25 It was unit risk for everything else and total life

1 time risk for ETS, so it was apples and oranges.

2 I suggested was that the staff go back to the  
3 earlier reports that we have approved, and for most of them  
4 there is an estimate of the population disease burden in  
5 terms of the number of cancer cases.

6 The thing that you have got is what could be put  
7 together out of the existing reports. Some of them are old.

8 That means that the actual cancer burden is  
9 probably lower than stated in the reports because regulatory  
10 actions have been taken subsequent to the reports.

11 The point is that the typical numbers are around a  
12 thousand cancer cases with fewer or somewhere between 30 and  
13 4,000 cancer cases per lifetime exposure for the State of  
14 California.

15 If you take the deaths from the ETS that are in the  
16 first Table in the report and add them up there are  
17 confidential intervals and I added them up and it is 55  
18 hundred a year give or take a two.

19 Is that right Lauren? You are scowling.

20 DR. ZEISE: Sorry, are you just looking at cancer  
21 deaths or cancer in addition to all deaths.

22 DR. GLANTZ: Cancer all deaths.

23 DR. ZEISE: I would think it would be about that.

24 DR. GLANTZ: That gives you an apples and apples  
25 kind of combination and comparison here, but the question I

1 had with the Table, this is cancer, don't go away.

2 But when you say for example, acetaldehyde on this  
3 Table, the number that we approved in 1993, is 288 cancer  
4 cases per lifetime exposure for 30 million California  
5 population.

6 We are still not comparing apples and apples right,  
7 because that is over a 70 year period, right, so the correct  
8 comparative number for ETS is something like 55 hundred times  
9 70.

10 DR. ZEISE: Right for lung cancer it would be  
11 25,000, for lung alone.

12 DR. BYUS: I meant for lung and not for  
13 cardiovascular.

14 DR. ZEISE: For cardiovascular vascular it would be  
15 much larger.

16 DR. GLANTZ: All right.

17 I think what we need -- the other question that I  
18 had when we talk about cancer cases.

19 Are those cancer deaths or cancer cases?

20 DR. ZEISE: Cancer deaths.

21 DR. GLANTZ: I suggest what we do with this Table  
22 is we change the heading to be estimated fatalities, or  
23 estimated deaths, per lifetime exposure.

24 Then we could simply add ETS with whatever the  
25 countable number is, and we can leave it to Lauren to figure

1 that out.

2 I would not just look at cancer, but I would look  
3 at them all, which I guess you have an estimate for lung  
4 cancer, for SIDS, and for heart disease, and nasal cancer you  
5 could not get a number, so those are the fatal end points  
6 that you might put numbers to.

7 DR. ZEISE: I think that would be in of the order  
8 of 300,000.

9 DR. FRIEDMAN: One thing that is not clear to me,  
10 it talks about cases, with the changed deaths per 30 million  
11 exposed, and I know that California has about 30 million  
12 people.

13 Not all 30 million people are necessarily exposed  
14 to each of these, or to ETS. Are these the number of deaths  
15 that will occur in the California population of 30 million  
16 given the exposure we have, or are you saying if 30 million  
17 people were all exposed to this, this is how many deaths we  
18 would have.

19 DR. GLANTZ: I think it means, that is another  
20 thing that we would probably be clearer in this Table.

21 What these estimates are for the things that are on  
22 the Table, is the number of deaths estimated for the  
23 California population.

24 The assumption is always that everybody is exposed  
25 to the average ambient level. You get a unit risk times the

1 ambient exposure, times the population, and that is where  
2 these numbers come from.

3 DR. FRIEDMAN: I think that it would be clearer  
4 then to say expected number of deaths in California, not talk  
5 about per 30 million.

6 DR. GLANTZ: I agree with that. I think that what  
7 we should with this Table is to get rid of all of the per 30  
8 million exposed, and then change the headline to be estimated  
9 fatalities in California, and maybe put a footnote on it  
10 explaining, because you want this to make sense to normal  
11 human beings.

12 DR. FROINES: I think that someone ought to look at  
13 this Carbon Tetrachloride number in here too.

14 DR. FROINES: I think I can't imagine.

15 DR. GLANTZ: You were here when we voted for that.  
16 I think the other thing that should be added to this table,  
17 another footnote that should be added, is to point out, these  
18 are all estimates from earlier reports, some of these impacts  
19 will, or are most likely going to be for these compounds are  
20 probably going to be less than was estimated at the time  
21 because of control measures that have been put in place since  
22 then.

23 I don't think though, and I talked with Lauren  
24 briefly about this yesterday, I don't think that it is worth  
25 the trouble to go back and update the estimates.

1           I think that the point that the findings makes is  
2 that ETS is bigger than these are. By stating to the extent  
3 the exposure to the other compounds have been reduced, that  
4 difference widens, and it is not worth staff time to see it  
5 how much it widens.

6           DR. FROINES: I am not convinced that you shouldn't  
7 just publish the numbers on ETS by themselves.

8           There are so many questions about this that this  
9 gets us into, we are going to have take this up and look at  
10 the accuracy of these numbers, if, and how they should be  
11 presented, if we do this.

12           I think we are potentially in a can of worms if we  
13 use these numbers. I think it useful to have numbers like  
14 this, I think that it is useful to discuss them, but, you  
15 know, this is not trivial because some newspaper reporter is  
16 going to go pick up this list and then we will have to have a  
17 whole discussion about it.

18           The question is whether we want to get into this,  
19 these numbers, or whether we are talking about ETS, and let  
20 it stand on its own.

21           DR. GLANTZ: Do you think that it would make sense  
22 then for finding 18, to delete everything to delete the first  
23 part, and just simply say the public health impacts of ETS  
24 exceed those from all other prior compounds identified as  
25 toxic air contaminants to date by this panel combined.

1           What it says it will not present with this table.

2           DR. FROINES: That is okay.

3           What we don't want, we want to be careful not to  
4 make the other air contaminants look diminimous somehow.

5           DR. GLANTZ: Do you think that we should let them  
6 do the finding of that new number?

7           DR. FROINES: I think to say this is an important  
8 public health problem is correct, but when you get into  
9 starting to make it in comparison to other things, then we  
10 get into all the problems of comparative risk assessments  
11 which we know are difficult and complicated.

12          DR. GLANTZ: Okay. What do people want to do?

13          DR. FRIEDMAN: May I ask a question?

14          DR. PITTS: Yes.

15          DR. FRIEDMAN: These numbers that you came up with,  
16 are they per year, or did you estimate a lifetime risk?

17          DR. GLANTZ: The ETS numbers.

18          DR. ZEISE: The ETS are annual figures for ETS  
19 exposed individuals. We did take a certain average estimate  
20 of exposure, we basically used a prevalence and attributable  
21 risk formulation to come up with the figures.

22          DR. FRIEDMAN: I am just a little concerned, did  
23 you look at certain age groups, I remember that with lead I  
24 think that it was, that you talked about men 40 to 59 or  
25 something, did you do that with ETS too?

1 DR. ZEISE: With ETS we looked at the individual  
2 end point and based it on what was relevant for the  
3 particular end point.

4 For example, for birth weight, and estimated  
5 prevalence we looked at the exposure to, the pregnant women  
6 exposed to ETS.

7 DR. FRIEDMAN: I am just a little worried about the  
8 casual multiplying by 70. You have to do each one of these  
9 carefully and maybe it would be an actuarial.

10 DR. GLANTZ: In the interest of time we should  
11 delete 18, it is just a can of worms.

12 DR. GLANTZ: There are too many complicated issues,  
13 it is not that important a point. Table 1 and 2 get deleted  
14 too.

15 DR. PITTS: Now, before we delete it let the  
16 discussion go on.

17 DR. SEIBER: May I ask a question. How would Table  
18 1 have come out, I am not quite ready to delete it because I  
19 don't know what the numbers are I guess, you have got an XX  
20 in my version, and then a ten to the minus X in another place  
21 there.

22 I wonder, what are the numbers. Do we know?

23 DR. PITTS: I think, Lauren, you should come up.

24 This is an important point, I am not ready to  
25 delete Table 2 either.

1           Let's talk about it, because what people would like  
2 to know, we have a unit risk here, how in terms of micro  
3 grams or cubic meters.

4           DR. ZEISE: I was just wondering if I could have a  
5 copy of the findings.

6           DR. PITTS: I think that would help, I think that  
7 is one of the most sensible things I have heard 30 seconds.

8           DR. GLANTZ: Here is the problem with Table 1 and  
9 Table 2, the way that we have done most compounds where we  
10 did not have a huge amount of epidemiological data that we  
11 have on ETS, there was a unit risk was estimated and an  
12 average ambient exposure was estimated, and then that was  
13 used to come up with the body count.

14           With second hand smoke there is so much  
15 epidemiological evidence that you don't have to do that, you  
16 simply look you look at whether people were exposed or not,  
17 and get a relative risk, and then combine that with  
18 prevalence and attributable risk calculation ion order to  
19 come up with the health impact.

20           The problem, so that there is -- if you look  
21 through this whole report, they never compute a unit risk,  
22 and it is not really even necessary or appropriate to do so.

23           The problem that you have, if you look at Table 2  
24 is that everything else is listed in order of unit risk.

25           I don't think that the data exists, nor is it

1 really necessary to go get it.

2 DR. PITTS: For ETS.

3 DR. GLANTZ: For ETS.

4 DR. PITTS: How do you answer the question, for  
5 atmospheric chemists, where would you place ETS in terms of  
6 unit risk to cancer, let's just take cancer, let's not get it  
7 all mixed up with, that is another risk, say cardiovascular,  
8 where would it fall in terms of cancer, just a rough  
9 estimate, is it ten to minus one, three, five, seven I think  
10 that is a legitimate question to ask.

11 If you cannot answer in that term, just focus on  
12 the one question, cancer potency and you notice that we have,  
13 when we have these numbers, these are, make very clear that  
14 these are conservative, and the risk is a wide range risk.

15 Could you answer that for me? Where would you put  
16 it, if I is the ask that simple question, cancer potency  
17 risk, and I will ask that same question for complex emission  
18 diesel results too, now there is another complex mixture, how  
19 do you treat these?

20 DR. ZEISE: I think that if you look at unit risk,  
21 and you want to compare it on the basis of individual  
22 compounds in the mixture like chloroform you could do that,  
23 but it is difficult, what are you going to use as the measure  
24 exposure in terms of units.

25 DR. PITTS: Exactly, that is what I am getting at,

1 that is precisely my point.

2           There is a big difference between a complex mixture  
3 and Benzopyrene or Formaldehyde and so they have to be  
4 treated in somewhat of a different manner and that is  
5 precisely what I am concerned about.

6           DR. ZEISE: One possibility would be to look at it  
7 in terms of sort of a range of risks, lifetime risk, and  
8 compare that with a lifetime risks for the others, and not  
9 express it as a body count, but in terms of the theoretical  
10 risk estimate, and see how they stack up to look at overall  
11 impact.

12           That could be done with this based on the  
13 cardiovascular mortality estimates, and the lung cancer, if  
14 you wanted a ranking with respect to others.

15           DR. PITTS: What do the toxicologists here think  
16 about that.

17           I'm just raising it in as a private citizen, and I  
18 am curious.

19           DR. GLANTZ: That is what we tried to do with this  
20 thing.

21           DR. PITTS: I do not like this.

22           DR. GLANTZ: I think that the basic problem with  
23 this Table is that it is an apples and oranges comparison.

24           I think to do it, this was put together, actually I  
25 suggested doing it in the first place because we have done it

1 for everything else, and now I regret having done it.

2           The harder we try to make this work, the more  
3 confusing it gets. I think that the best thing to do is, it  
4 is clear that when you look at the lifetime exposure numbers,  
5 that ETS is a very serious compound, and the efforts to try  
6 to fit it in to exactly the kind of paragon we used before  
7 when we were dealing with these other compounds, which were  
8 pure compounds, where we were developing, the whole effort  
9 was directed at unit risks.

10           It just will create more confusion to try to do  
11 this, and raise more questions than it will answer.

12           I think that we can say based on what is before us,  
13 it is very serious thing, but I think we are going to create  
14 huge problems.

15           I really regret having suggested this, it is  
16 turning in a big mess.

17           DR. FRIEDMAN: It would be useful to have the point  
18 18, that it causes a lot of deaths, and it is much greater  
19 than these other things everyone is so worried about in the  
20 environment.

21           DR. GLANTZ: I think that can be said simply based  
22 on what is in this report, and all of the other reports that  
23 we have done, without including the Tables.

24           I would have finding 18, if you want to keep it,  
25 just take the last part of it, and just say the public health

1 impacts of ETS exceed those of all other prior compounds  
2 identified as toxic contaminants to date by this panel.

3 That is a well justified clear statement, if you  
4 want to say that, now John is sighing. If the Panel does not  
5 want to say anything.

6 DR. FROINES: There is a dose response relationship  
7 that we are concerned about. When you say that, you are  
8 making some assumptions that may or may not be, let me  
9 finish. Al Smith, in his environmental perspective article  
10 on arsenic compared the relative compared the risk of radon,  
11 Environmental Tobacco Smoke, and arsenic, in drinking water,  
12 based on the Taiwanese data and showed that the three  
13 actually are comparable.

14 That is arsenic in drinking water was comparable to  
15 Environmental Tobacco Smoke. So that one has to be careful  
16 when you start to make those comments that you are talking  
17 about apples and apples, and oranges and oranges, and you  
18 have normalized to the degree that you can.

19 That is my only concern. I worry about when you do  
20 that you start to make other things diminimous. I don't  
21 think that for example, if you die, for you to die is by no  
22 means diminimous in this state.

23 These are matters of real concern and the danger  
24 of, it depends on how you make the phrase that compares.

25 DR. PITTS: And it depends on whether you are

1 talking about hot spots. You are sitting next door to a  
2 chromium plate, you have a real problem, and smoking might  
3 not, or Environmental Tobacco Smoke for the workers might not  
4 be a big deal.

5           Why don't we just say that you have to be very  
6 careful about this. I have one suggestion, would it be  
7 possible that over lunch perhaps, or in some other way, that  
8 you the leads could get together and decide and come back to  
9 the Panel as a whole with a suggestion as to how you would  
10 like to handle this.

11           You have heard the rates of perspective and the  
12 idea in which to move this along and then we will come back  
13 to discuss it.

14           DR. GLANTZ: Let's take a vote and get a sense of  
15 the vote, keep this or dump it. If people, if the consensus  
16 is to dump it, we do not have to deal with it over lunch.

17           DR. FRIEDMAN: I feel it needs more work. Maybe we  
18 could do it over lunch.

19           I would hate to delay the whole thing of getting  
20 our findings out but I think that it is an important enough  
21 issue that maybe we could approve everything and just work on  
22 18 before the next meeting.

23           DR. GLANTZ: I think we need to bring it to closure  
24 today.

25           DR. PITTS: I did not suggest that we were not

1 going to bring it to closure, I suggested to get together,  
2 the three of you, because I think that Gary has a very good  
3 point.

4 It is a bottom line. It is really a serious  
5 problem, and it is serious relative to other compounds.

6 A general statement is way to sum this up. Perhaps  
7 that is what you are trying to say.

8 DR. GLANTZ: Okay.

9 DR. PITTS: Now, why don't we decide to go ahead  
10 and approve the findings with the subject to be discussed and  
11 the last point to be brought up, is that appropriate, is  
12 there any objection to that?

13 DR. SEIBER: Don't we approve them all at once.

14 DR. PITTS: If could we go ahead, if we are ready  
15 to, to formalize whatever motion I will hear, formalize that  
16 motion, subject to the fact that we will, will in fact look  
17 at this perspective of number 18 and then bring that back  
18 after lunch, and that could be handled at that time and not  
19 let it hold up the entire document.

20 MR. LOCKETT: That is fine.

21 DR. PITTS: Is that okay with the Panel?

22 DR. SEIBER: I'm not sure what we gain, are we  
23 going to vote again after lunch? Why don't we just wait?

24 DR. GLANTZ: Let's get it over with. Do everything  
25 with 18, and 18 will take 30 seconds after lunch.

1 DR. PITTS: I'm waiting for a motion.

2 DR. BYUS: We have the, we have not quite finished  
3 here.

4 DR. SEIBER: We have not gotten our comments in.

5 DR. PITTS: Go ahead. We will leave 18 over lunch,  
6 you can like it or not. The last thing, and they are other  
7 people that have additional comments.

8 The last question is on page 4, we conclude by  
9 saying based on the available evidence ETS should be  
10 identified as a toxic contaminant.

11 Since the Board is not going to identify it as a  
12 toxic air contaminant, maybe we should change that to say,  
13 based on the available evidence we have concluded that ETS is  
14 a toxic air contaminant.

15 Would that be acceptable to everyone?

16 DR. PITTS: Yes.

17 DR. BYUS: It is a toxic air contaminant and  
18 everyone agrees that it is.

19 DR. SEIBER: Is that little T, little C, or is that  
20 big.

21 DR. BYUS: Little T.

22 DR. PITTS: As printed. Toxics air contaminants,  
23 period.

24 DR. SEIBER: You are not implying anything legal.

25 DR. PITTS: Right, air born toxic chemical. I hate

1 to see it get it legally bound up with an identification  
2 process.

3 DR. GLANTZ: Let's just leave it, is a toxic air  
4 contaminant.

5 DR. PITTS: What would anyone else like. Around  
6 the table, let's do it.

7 DR. FRIEDMAN: I'm satisfied.

8 DR. PITTS: With toxic air contaminant in small  
9 print.

10 DR. FROINES: Yes.

11 DR. GLANTZ: Yes.

12 DR. PITTS: Is that satisfied.

13 DR. SEIBER: Any other choices. I'm afraid that  
14 people are going to confuse it with big TAC.

15 DR. GLANTZ: I think that the record is there is a  
16 transcript of this meeting, the ARB has made their position  
17 very clear, and I think it is clear.

18 DR. SEIBER: That is all right with me. If you are  
19 sure we have clarified it.

20 DR. BYUS: We are not done.

21 Do you have any other comments?

22 DR. SEIBER: Yes I apologize, but I got here late,  
23 and these are not major things, but under number 17, where  
24 you are giving numbers there, the numbers of children and so  
25 forth, in most cases you give ranges, but in two cases you

1 gave the absolute numbers, and I wondered why that was.

2 For example 360 deaths from lung cancer is an  
3 absolute number, 120 deaths from SIDS, yet all the others  
4 were range.

5 I was just questioning, are those not subject to  
6 ranges, is there some reason why those are not ranges, and  
7 the others are?

8 DR. FRIEDMAN: Can I ask who writes these  
9 findings?

10 DR. GLANTZ: I think these numbers, Lauren you  
11 should, like sit there. These numbers correspond to a Table  
12 in the document.

13 DR. FROINES: I think that the answer to that  
14 question is that the lead person who works with Bill Lockett  
15 and the ARB to develop the findings.

16 DR. FRIEDMAN: And who actually writes them? The  
17 three people.

18 DR. FROINES: The lead person has the primary  
19 responsibility for putting together the draft, and the staff  
20 helps that process.

21 DR. FRIEDMAN: Maybe we should be asking Craig why  
22 is there is not a range.

23 DR. BYUS: It was taken out of the Table where  
24 there was no range, that is the answer. We can fix that.

25 DR. SEIBER: If there isn't any, then it is fine.

1 DR. GLANTZ: Lauren wants to say something.

2 DR. ZEISE: Basically the ranges were taken from a  
3 range of maximum likelihood estimates.

4 Basically where they come from is a range of  
5 maximum likelihood estimates of relative risk from which  
6 attributable risks and calculated in the EPA report.

7 So these numbers correspond to numbers, the ranges  
8 here correspond to numbers out of the EPA report, for lung  
9 cancer there was a META analysis and there was a point value  
10 for that, that is associated with best value.

11 DR. FRIEDMAN: Wasn't there confidence levels  
12 around that?

13 DR. ZEISE: Yes, but basically just put in the  
14 corresponding numbers that the EPA reported in their  
15 document.

16 The ranges don't, that are given here, don't  
17 reflect a confidence interval, but reflect a range of maximum  
18 likelihood from different studies.

19 DR. GLANTZ: That is all explained in detail in  
20 some detail in the document itself.

21 DR. SEIBER: So what you are saying is that there  
22 is a single study there, and these others are from several  
23 studies.

24 DR. ZEISE: Basically.

25 DR. FRIEDMAN: Well, Jim would it satisfy you then,

1 where there is single number to say approximately; maybe that  
2 would work?

3 DR. SEIBER: Yes, because I think that it is kind  
4 of misleading to say 120 it sounds like we really know what  
5 we are talking about, and we don't.

6 DR. PITTS: Plus or minus. There speaks another  
7 environmental chemist.

8 DR. SEIBER: That will be fine. The only other  
9 comment that I have, and seems to me you have caught all  
10 these, but the faxed version I got yesterday I circled  
11 several places where it said parental smoking, mothers, you  
12 know, it kind of blamed it all on the parents, and I took  
13 some exception to that because I think it doesn't matter who  
14 the smoker is.

15 DR. PITTS: You mean as a parent.

16 DR. SEIBER: It could be a grandparent, or the  
17 brother, or sister, and I think we caught most of those.

18 I don't know whether you did it on purpose or --

19 DR. PITTS: Okay.

20 DR. BYUS: Any one with any other comments on the  
21 findings? Okay, if not, I move that we accept the findings,  
22 conditional to the conclusion on the newly written point 18,  
23 and the report.

24 DR. PITTS: Second to the motion.

25 DR. FRIEDMAN: Second.

1 DR. PITTS: Any further discussion? All those in  
2 favor raise your hands, signify by saying aye, any opposed,  
3 and then the motion is passed, and it should be noted for the  
4 record that it was passed unanimously for the entire packet.

5 Take a deep breath all of you. As a reward for  
6 this, we are going to take a 5 minute break, and we would  
7 like to take a shift in the agenda to bring one  
8 administrative matter up, which is 6, and then bring it up to  
9 number two.

10 We are fortunate to have Mike Kenny here, the  
11 Executive Officer of ARB, and he is under a real time  
12 schedule and he has graciously agreed to move his schedule  
13 back and we appreciate that.

14 Let's take a five minute break, and then we will  
15 hear the lead situation and we will go to lunch after that.

16 I do promise the Panel, even though we are in San  
17 Francisco, it will not be October 31, but lunch occurred at  
18 three o'clock or something like that, and it ultimately  
19 delegated on the part of the Panel and was totally  
20 justified. Totally justified.

21 (Thereupon a brief recess was taken.)

22 DR. PITTS: We will proceed with this  
23 administrative item, and we have other items in terms of  
24 future agendas at the end of the program for today.

25 This we are bringing up now and Michael Kenny is

1 here now the Executive Officer of the ARB. Let me just a  
2 second, give a quick background, sort of state where we are  
3 for the audience.

4           Actually in terms of the lead document, the Air  
5 Resources Board passed a resolution concerning the newer  
6 toxicity concerning uncertainties in terms of the impacts of  
7 lead on children, and others, and passed this at a Board  
8 meeting on April 24.

9           We do not need the details now, as a result of  
10 that, the concern was that they recommended to vote to put  
11 the information in as a preface to the risk assessments  
12 document that the Panel had approved at the previous October  
13 31 meeting.

14           At any rate, this is a matter of some concern  
15 because it was mixing risk assessment which was scientific  
16 management by adding a preface and that changed in the sense  
17 it was actually not based on the science side of the  
18 question, but had more of a management side, it was not  
19 appropriate from the respect of scientific testing.

20           Then on the twenty-third I wrote a letter to John  
21 Dunlap, the Chair,, and indicated beware of the SRP involved  
22 the ARB's recent discussion and action on lead on April 24  
23 will meet with a great deal of interest and concern.

24           The May 20 meeting of the SRP and the attached  
25 resolution was passed unanimously. We look forward to

1 hearing what actions the ARB will take in response to our  
2 resolution, this letter was May 23, as always I am available  
3 for discussion concerning this or other matters concerning  
4 SRP et cetera, et cetera.

5 Now specifically, done again very quickly for the  
6 background, the actual resolutions that were passed on May  
7 20, basically said the following, resolve that the ARB should  
8 take action to remove it's preface adopted in the April 24,  
9 1997 Board meeting, from the staff report, slash, executive  
10 summary, proposed identification of inorganic and toxic air  
11 contaminants, March 1997.

12 Two, if ARB decides to keep the preface in the  
13 staff report executive summary, the SRP finds that this ARB  
14 modified document is seriously deficient and maybe there is  
15 another resolution indicating how this should have been  
16 handled.

17 That is basically the situation. There have been,  
18 I should add, several series of discussions, informal  
19 discussions, on this matter.

20 Where there were discussions back and forth with a  
21 number between SRP members and me myself as Chair, I had  
22 discussions with a number of individuals in the ARB, with the  
23 Chairman with others in the administrative post, and we  
24 kicked this back and forth, what was involved here in the  
25 discussions, and actually were I must say not of a rancorous

1 nature, in deference of my friend over here, and the only  
2 stroke that I was concerned about, or am concerned about, is  
3 my lousy backhand, which is terrible.

4           So, that is not the issue. I'm pleased that, one  
5 of the key points that I made, or should make as Chair, is  
6 the Panel decision, the Panel has to make the decision and we  
7 interacted as Chair, or the part of intermediary to this  
8 matter.

9           It seemed very important to have something as a  
10 panel in writing specifying what actions the ARB were  
11 planning to take in addressing this resolution that we  
12 formally passed, as a formal resolution.

13           We hoped to have that so that we would have a basis  
14 that would be unambiguous basis for discussion at this time.

15           For a variety of reasons that has not occurred, but  
16 we are fortunate to have you here today to discuss with us  
17 what the possibilities exist for working out this situation.

18           I would point out that is what we will do in just a  
19 moment. I would note for the record, yesterday as Chair, I  
20 received a copy of a letter from my Ron Sher, the Senate to  
21 John Dunlap, in which he makes a series of, expresses his  
22 concerns about this problem, and this is going forward to  
23 Chairman done lap who happens to be in Italy right now and  
24 communications maybe somewhat difficult.

25           I hope they are over some Chianti in any case. I

1 have been authorized to give the letters or copies to the  
2 Panel, and to yourself, and as I indicated, I prefer that  
3 until Chairman Dunlap reads this, and the ARB has their  
4 opportunity to make their comments, I would like the Panel to  
5 keep it in a confidential nature between the Panel and that  
6 is up to you and the ARB how they want to handle this.

7 I wanted to be sure and there is not an infinite  
8 time limit on the confidentiality but until John Dunlap gets  
9 a chance to read it and interact with you and then of course  
10 it is an open topic.

11 EXECUTIVE OFFICER KENNY: I appreciate that very  
12 much, thank you Dr. Pitts and Members of the Panel. What I  
13 wanted to do was go through a little bit of where we want to  
14 be, and hopefully we can reach a mutual resolution of this  
15 issue.

16 We have had a long history of working very well  
17 with the SRP, and the Panel and the ARB interaction has  
18 always been very positive and very good.

19 It is unfortunate the April 24 meeting led to a  
20 misperception with regard to what the Air Resources Board was  
21 trying to do on that day.

22 The ARB was not trying to change the risk  
23 assessments that had been approved by this panel. That risk  
24 assessment is a final document, that risk assessment is a  
25 stand alone document.

1           The Air Resources Board was simply trying to  
2 reflect, in the staff report aspect of what was being  
3 presented to it on that particular day, what it's feelings  
4 were with regard to information that had been presented to  
5 you during the dynamic of the hearing through witness  
6 testimony.

7           That is why you have to see the preface that you  
8 have before you today. Again I want to reiterate, that  
9 preface was not designed by the Board to modify the SRP  
10 findings, the SRP documents, or the SRP resolution in any  
11 fashion.

12           What we really have is a situation in which there  
13 are two documents that we are referring to here, there is the  
14 SRP executive summary and attendant documents, parts A, B,  
15 and C, there is also an initial statement of reason, which is  
16 an executive summary which is produced by the staff for the  
17 Board's review as we go through our administrative law process  
18 in terms of getting any regulation approved by the Office of  
19 Administrative Law.

20           If you look at those executive summaries, the one  
21 approved by the SRP, and the one that was approved by the  
22 ARB, they are substantially similar, however, they are still  
23 distinct documents.

24           In terms of the documents themselves and where the  
25 preface lies, the preface is only applicable to the ARB

1 document, it is not applicable to the SRP document, and it is  
2 not intended that preface would be part of the SRP document.

3 I think that what that does is that it makes it  
4 very clear that in fact we really have to distinction bodies,  
5 the SRP and the Air Resources Board, each of them has a role  
6 under the law that they need to play, and each of them reach  
7 the conclusion with regard to the role that they have the  
8 obligation to play.

9 That is what we are trying to do with these  
10 documents. If you look at the documents, actually I have two  
11 copies of them here, they are not final documents, but you  
12 can see that one document is an SRP version and it says very  
13 clearly on it that it is an SRP version, and one document  
14 says that it is an Air Resources Board version.

15 They are not just substantially dissimilar, but  
16 again they are two distinct documents and they were prepared  
17 basically, historically as two distinct documents.

18 I think that is where the resolution lies for this  
19 dispute. There is a follow-up here, we have learned  
20 something very important with regard to the necessity for  
21 communication and the effort to avoid misperception with  
22 regard to what is happening in terms of the interplay between  
23 the SRP and the Air Resources Board.

24 It is important for us to acknowledge that there  
25 was no design to change the SRP findings. I think will see

1 for the future an effort made to ensure that that kind of  
2 misperception does not exist.

3 If you have any questions I will happy to address  
4 those.

5 DR. PITTS: Okay. Open to the Panel. One point, I  
6 think if you, somewhere I have this, if you open up the  
7 September 1996 Brown documents, and that came to us in  
8 October 31, when we acted on that, and that is where we made  
9 clarifications on that document, was it not true that the  
10 title page of that document had a different statement than  
11 the cover.

12 EXECUTIVE OFFICER KENNY: I think that was true.

13 DR. PITTS: The title page actually said it was an  
14 executive summary, and when you open it up, the title page  
15 said staff records executive summary, and struck me, as I  
16 mentioned to Genevieve that may have been a possible source  
17 of confusion.

18 EXECUTIVE OFFICER KENNY: I think that is true.

19 DR. PITTS: I think that is what actually happened,  
20 that is worth noting, and then when it came to the final  
21 document, the March document, objection.

22 It is open to the Panel. It is your ball game.

23 Who would like to start. I will go around  
24 clockwise and ad hoc digital manner.

25 I will not say Twelve clock, you cannot say Twelve

1 o'clock high any more with a digital watch. Shoot.

2 DR. SEIBER: I appreciate Mr. Kenny being here to  
3 try to clarify this and I personally hope we can lay it to  
4 rest.

5 Could you explain a little bit more how the preface  
6 would be placed, now I understand the Red document, and we  
7 will just refer to it them as Red and Tan for simplicity  
8 here, and what kind of language would be around the preface  
9 that constitutes the resolution passed by the Board.

10 EXECUTIVE OFFICER KENNY: What you would do is you  
11 would have the preface as adopted by the ARB on the inside of  
12 the Red document the inside cover there.

13 I think it is important to also acknowledge that  
14 because that Red document also does contain the findings of  
15 the SRP as they were adopted in September or October, that in  
16 fact we would have to put some language with that, that makes  
17 it very clear that the preface is limited to the Air  
18 Resources Board and the preface is not designed to modify or  
19 change in any way the findings of the SRP.

20 DR. PITTS: Okay. Stan,.

21 DR. GLANTZ: I will pass for now.

22 DR. PITTS: You are passing? Do you know there is a  
23 term for somebody that falters, that checks, and then comes  
24 back and raises, that is called sand bagging, and I saw that  
25 happen to somebody once in the war and it was not a good move

1 for someone of friendly fire.

2 I would like to here, since you commented this  
3 morning at some length, I gather you have a number of people  
4 here, why don't you come and tell us what your impression of  
5 this. On the record and.

6 DR. GLANTZ: I was trying to be moderate.

7 DR. PITTS: You are to be congratulated on that.

8 DR. GLANTZ: Okay. I have, I think there are a  
9 couple of different issues here. The first one is the issue  
10 of the Board coming in and sort of messing with the science  
11 as certified by the SRP.

12 We are at least moving in the right direction on  
13 that. I think that you are now recognizing that that should  
14 not happen.

15 Isn't that true?

16 EXECUTIVE OFFICER KENNY: We have always recognized  
17 that. I don't think that the Board intended to mess with the  
18 science.

19 DR. GLANTZ: Okay. The intention, I think there is  
20 an agreement on the intention. The second issue is whether  
21 in fact the statements made in the preface are correct  
22 scientifically, which to me is the more important point.

23 I was not at the last SRP meeting, but I am pretty  
24 sure that it was made pretty clear that this body thought  
25 they were not correct.

1           I read the stuff, and I thought that they were not  
2 correct. The lead industry when they came in and made the  
3 presentation, I have not read the entire transcript of the  
4 ARB meeting, but I looked at pieces of it.

5           The way that it was presented was very misleading  
6 and it was my impression that the ARB was under the  
7 impression that they were being presented with new  
8 information that had not been presented to this Committee.

9           That is not true, the arguments that the Lead  
10 Industry brought before you, before the Board, were things  
11 that had been discussed ad nauseum before this Committee.

12           If ETS set the record for the amount of workshops,  
13 and discussions, and public comment periods, my guess is that  
14 lead came in second.

15           So, I am very troubled, I think that ARB made a  
16 mistake, a scientific mistake in adopting that preface, and  
17 it is very troubling to me that having had the SRP point that  
18 out, because the ARB are not scientists as we are, they do  
19 not plow through the stuff months and years as we did.

20           I am very troubled that they will not just say  
21 oops, and remove it. I think that the ARB has the  
22 prerogative, and I don't think that anyone on this Committee  
23 will disagree, has the prerogative to say what it wants,  
24 whether it makes sense or not, but I would hope that given  
25 that this Committee has stated in very, very, strong terms

1 that the statements were made by the ARB are simply not  
2 correct as a matter of science, that they would just remove  
3 them.

4 I think that you would have the ARB in a much  
5 stronger position to defend it's action on a scientific  
6 basis.

7 Having said that, it is my view that the SRP has  
8 made it's views on this exceptionally clear, and to the point  
9 that the States Senate is now concerned about this.

10 This has really gone from being an issue of  
11 science, which is what this Committee deals with, to a  
12 political problem.

13 What I would personally like to see is to have us  
14 reiterate our view that that preface contains statements that  
15 are not defensible from a scientific point of view.

16 We want to make it very clear that our report is  
17 approved by this Committee should stand as it was, or send it  
18 back to us.

19 At that point my personal preference is to then  
20 having made that statement again very clearly is to advise  
21 the ARB that we think that they should reconsider that  
22 preface but then to go leave it as an issue the between  
23 Administration and the legislator and let us get back to  
24 worrying about science.

25 That is my personal view, I think this is consuming

1 a huge amount of effort. I do not understand why the Board  
2 does not simply recognize that they got a little bit  
3 bamboozled at that hearing.

4 That is what I was going to be moderate about.  
5 That is sort of my personal view.

6 I never have to take this up again.

7 EXECUTIVE OFFICER KENNY: If I could respond. I  
8 think that what the Board was really trying to do was reflect  
9 in what they thought was a reasonable fashion the nature of  
10 the debate going on the day that they identified lead as a  
11 toxic air contaminant.

12 I think that the Board was also trying to make it  
13 very clear that the identification phase was coming to an end  
14 that day and the Board was going to identify lead, but at the  
15 same time they were trying to acknowledge that there was  
16 going to be a subsequent phase to this process, and they were  
17 trying to provide for some recognition of this issue that had  
18 been raised in the context of that hearing.

19 I really think that the effort here was done by the  
20 Board in substantial good faith. They went out of their way  
21 in fact, in response to a direct request to even modify the  
22 SRP findings, to say no, that was an inappropriate action to  
23 take.

24 I understand what you are saying. I think there is  
25 simply, I think that the Board was really trying to do the

1 right thing on this.

2 DR. FROINES: I want to make a comment. I think  
3 that we have come to a place where SRP and the Board are now  
4 in a confrontational place with respect to each other.

5 I think that is a very bad place to be, and I think  
6 we should back away. Nothing will be served by the current  
7 circumstances.

8 I think that we need to put this behind us. I  
9 think we need not to get into this situation again, where  
10 there is the real tension as shown by these letters in the  
11 Wall Street Journal.

12 I wanted to make one comment about what you said,  
13 it is not appropriate for the Air Resources Board to consider  
14 that what is going on at that hearing, and I have read the  
15 transcripts, and I have read the transcripts from the Irvine  
16 meeting, there was no debate going on.

17 Those were your words. There should not be a  
18 debate going on.

19 It is not a debate between the Lead Industries  
20 Association and this Panel. It is not a debate.

21 The Board is to hear our findings, the Board may  
22 then hear from the Lead Industry Association has to say, and  
23 I think that is terrific, but it is not a debate, nor should  
24 it be, nor was it intended to by the Legislature that it be.

25 That is where the problem comes from. The problem

1 is that what you have is an industry representative in a  
2 Committee coming up with language that doesn't form the basis  
3 for the preface.

4 Is that going to happen with diesel, is that going  
5 to happen with ETS, is that going to happen with any other  
6 chemical.

7 I think that there is a process question that says,  
8 you can't have, whether it be the NRBC, the Lead Industries  
9 Association, or any other interested party serving in a  
10 committee that comes up with a preface that seems to counter  
11 the findings of this Panel.

12 That is the problem. The problem, you can take  
13 this and put one, and one, and one, in another, and that is  
14 fine, that deals with the procedural issue.

15 There is a very deep problem that emerged, and you  
16 actually contribute to it when you say there is a debate  
17 going on.

18 There was no debate and as I say there shouldn't be  
19 a debate. That's the issue.

20 We have to step back, and say okay, we made a  
21 mistake, and we are not going to have that kind of  
22 interference again.

23 I do not think it is good.

24 EXECUTIVE OFFICER KENNY: Let me more precisely  
25 state what I want to say, which is that there was a debate

1 going on to the extent that the Board was engaged in  
2 determining whether or not it was going to identify lead as a  
3 toxic air contaminant.

4           It was hearing testimony with regard to that  
5 effect. There was no debate with regard to the SRP  
6 findings.

7           The SRP findings basically were final on the date  
8 that this Board made a determination that those findings were  
9 approved.

10           So, I'm not trying to say that that kind of debate  
11 was being engaged in. What I am trying to point out though  
12 is that the Board was engaged in it's statutory obligations  
13 to make a determination as to whether or not to identify this  
14 particular compound.

15           During the context of that is when the testimony  
16 was occurring. The Board was really trying to do was to  
17 simply provide for a bridge or a transition of the risk  
18 management phase.

19           I think that you are right about this not occurring  
20 in the future, for the very simple reason, one of the things  
21 that we have learned from this is that when we have a  
22 document that reflects efforts by the SRP, also by the  
23 Environmental Health Hazards Assessment, and by the Air  
24 Resources Board, that it makes sense to make sure that the  
25 document is very clearly articulated as to whom it belongs.

1           And that is I think really where some of the crux  
2 of this issue is at also. I think for the future you will  
3 not see this kind of a blended situation.

4           You are going to see documents that are very  
5 specifically identified as being completed documents and  
6 final documents in terms of what the SRP does with them, and  
7 then a separate and secondary ARB approach in terms of how  
8 the initial statement of reasons is done.

9           I think that is a major resolution in terms of  
10 assuring that misperceptions don't reoccur.

11           DR. FROINES: I personally think that we should  
12 then back away from this as a confrontation, and assume that  
13 everyone is working on the long term goal of improving the  
14 air quality of California, and that we put this behind us.

15           That is what I would favor. I think others would  
16 favor that.

17           I think it is important that we are clear with each  
18 other and express our concerns and then move on, and I think  
19 that will be for the best for everyone in the long term.

20           DR. GLANTZ: That is what I was trying to say,  
21 too. I think that this has been beaten very hard.

22           To reiterate what John said, you need to know and  
23 be very clear that we do not believe that any new information  
24 was presented to the ARB at that meeting, they claimed it was  
25 new information, but believe me, I went to enough workshops,

1 and read enough public comments, I promise you, there was  
2 nothing new there nothing that this Committee had not  
3 considered in great depth.

4           The net result is that you have the ARB making a  
5 statement which I would say, and if anyone here disagrees  
6 with me, that is not justified by the science.

7           I do not think it is good policy, that is a fact.  
8 My advise to you is that I think one of the things, one of  
9 the hallmarks of this entire process until lead came along,  
10 was the lack of political meddling, and lobbyist, and all of  
11 that other kind of stuff.

12           Industry was in here representing their view,  
13 putting in their comments, and defending their point of  
14 view.

15           We did not see the heavy politicization of the  
16 whole process that occurred in the lead document.

17           I think it should reflect very well on the ARB and  
18 on the administration and the Deukmejian administration  
19 before them, which is how long I have been on here, that  
20 these decisions have been made based on the best available  
21 science, not some compromise made in some meeting because the  
22 right people showed up and yelled and screamed and jumped up  
23 and down.

24           I would strongly urge the ARB to reconsider what  
25 that preface says. It is your right, I think that there is a

1 consensus among this panel, you have the prerogative to say  
2 that the Moon is made of green cheese in your document if you  
3 want, but I think that it is a very bad move, I think that it  
4 reflects very poorly on the Board.

5 I would urge you to reconsider it. Having said  
6 that, I agree with John, I think that we have made our point  
7 about as loudly and clearly as we can.

8 You need to decide how you want to respond to it.  
9 I think that if indeed there is a separate document that is  
10 the SRP document, that does not include the preface, and  
11 where it is clear if you choose to continue the preface, if  
12 you make it very clear that the SRP doesn't agree you, I  
13 think that is a reasonable resolution to the current  
14 situation.

15 From the point of view of the Panel. From my point  
16 of view as a member of Panel.

17 I don't think it is good resolution from the point  
18 of view of science to have the ARB putting something out  
19 there where it's primary scientific advisory committee on the  
20 subject is telling you that it is wrong.

21 As I say if you go back and look at the transcripts  
22 of the meetings we had on it, and I think there are  
23 transcripts of the public workshops too, and of the public  
24 comments, you will see that the issues that they raised have  
25 been beaten into the ground and addressed and readdressed.

1 I frankly think you guys got a little bit  
2 bamboozled by that, and you should fix it. That is my  
3 personal advise to you. I think from the point of view of  
4 the Panel, we need to actually see the final, final  
5 documents, but it sounds to me like the integrity of what we  
6 have done is going to be maintained, and you are just  
7 choosing to ignore some of it, that is your prerogative, my  
8 kids ignore me all the time.

9 I agree with John, I think this has gone, I think  
10 the point has been made, and I would hope that we can move  
11 back to the very kind of positive working relationship that  
12 we have historically had between this Committee and the  
13 Board.

14 DR. FROINES: I think it is very important for us  
15 to have a positive working relationship with the Board.

16 I think it is crucial, otherwise we can't get  
17 anything done. We are on the record, and I think we should  
18 now move ahead, and I think we are probably ready.

19 DR. PITTS: Okay. Craig.

20 DR. BYUS: I agree. I really do think that this is  
21 the preface to risk management, but I think you have made a  
22 big mistake, I think preface is bad.

23 It not well written, and it does not reflect what  
24 the science says in the document, it is full of  
25 uncertainties, there are a large number of uncertainties,

1 which is not the case.

2 In fact there are less uncertainties with lead than  
3 there are with most of the other documents that we have  
4 prepared.

5 The uncertainty level is not very large, you are  
6 saying it is considerable, that is the crux, if you are going  
7 to use that preface as a bridge to your risk management then  
8 I think we do have a real problem.

9 We have a problem here, because you would not  
10 really be following what it we suggest scientifically.

11 You don't have to I suppose, you always have in the  
12 past it seems. There is where the real problem lies.

13 If you are going to use the preface to lead you on  
14 your risk management then I think that we have a great new  
15 problem and maybe we will never be able to work together  
16 again, I don't know.

17 DR. PITTS: Will the preface as it was written then  
18 be in this identification of the statement of rulemaking.

19 EXECUTIVE OFFICER KENNY: Yes, it would be in the  
20 initial statement of rulemaking.

21 DR. PITTS: The resolution was the same as the  
22 preface, will the resolution and the preface both be in the  
23 initial statement.

24 EXECUTIVE OFFICER KENNY: Yes, the initial  
25 statement of reasons is required by the Administrative

1 Procedures Act and the resolution is necessary for rulemaking  
2 also.

3 DR. PITTS: So they will both be in there, would  
4 that at all confuse anybody who might pick that up and say we  
5 have a preface that says this, and now we have a resolution  
6 that says this.

7 I'm a little bit dense on this, but it strikes me  
8 that there might be some confusion.

9 EXECUTIVE OFFICER KENNY: Well, I hope there is no  
10 confusion I mean essentially what we are trying to do.

11 DR. PITTS: To the reader. They will pick it up  
12 and say here is a preface, will that be the preface then to  
13 the executive summary?

14 EXECUTIVE OFFICER KENNY: Yes.

15 DR. PITTS: The Panel is aware that the executive  
16 summary will also appear in this initial statement.

17 EXECUTIVE OFFICER KENNY: That is the same  
18 document.

19 DR. PITTS: So it will be there.

20 EXECUTIVE OFFICER KENNY: The other thing too, in  
21 terms of the resolution, the resolution is essentially is a  
22 series of findings that our Board makes at the time that they  
23 do the adoption and a large number of those findings are put  
24 in there for legal reasons in order to provide protection to  
25 the Board this particular one is not necessarily legally, but

1 was put there as a statement by the Board.

2 DR. BYUS: I believe that the Panel was very clear  
3 in the findings of Lead in the air not be allowed to go up  
4 above what it is now, we were all in total agreement on that.

5 EXECUTIVE OFFICER KENNY: I don't think.

6 DR. BYUS: There was no, or virtually no  
7 uncertainty in that statement.

8 EXECUTIVE OFFICER KENNY: That was what we  
9 thought. I don't think that the Board disagrees with that.

10 There was no uncertainty in that statement. It  
11 still bothers me.

12 I'm still not sure what we should do, I'm not sure  
13 whether we shouldn't amend our findings and keep the preface  
14 in there anywhere, to counter it, or say something about  
15 that, or make a stronger statement.

16 I don't know, I'm less, I'm sort of, don't know  
17 what to do here.

18 DR. SEIBER: I'm sorry, Stan was not at the last  
19 meeting when we spent quite a bit of time, I don't remember  
20 how much, but it is in the transcript, we discussed a lot of  
21 the things that he brought up, and I think we left that  
22 meeting with kind of a sense of where we were at as a Panel.

23 We all have our personal opinions about the  
24 substance of the paragraph, and I will be very candid about  
25 that.

1           I do not necessarily feel, and Dr. Wiche is not  
2 here, but if it came to a vote about the wording in the  
3 preface, that we would all be in consensus.

4           I don't think that we need to bring it up now, I  
5 think the important thing is that the Board recognizes our  
6 concern.

7           They have offered, what I consider to be, a  
8 situation that we ought to take a serious look at, and in the  
9 spirit of what Dr. Glantz made the comment of backing away  
10 from the precipice, this is a reasonable way to go.

11           Certainly our message got across and Mr. Kenny said  
12 that several times that it will not happen again, and the  
13 Board feels that they got the message.

14           In that regard we have succeeded in one of our  
15 principal objectives.

16           DR. GLANTZ: Well I think just to follow up to  
17 Craig's comment, I think that the preface, if it is a bridge  
18 to risk management, is going to confuse matters, and make it  
19 harder for you to do a good job on risk management.

20           That is not our problem, that is your problem. I  
21 also think that, we have this letter from Senator Sher, and  
22 they are going to be watching us, and that is not our problem  
23 either.

24           I think that this meeting, the views of the Panel,  
25 are being reiterated fairly clearly, and I hope this will be

1 carried back to the appropriate people at ARB, and that they  
2 will rethink how much they want to cling to the preface which  
3 is at issue here, given that we have now told them at the  
4 very least they got a little bit snookered.

5 At that point I think it is becomes other peoples  
6 problem. If you deal with it, if you take what we have said  
7 here, and the Board reconsiders what is written there, I  
8 think that would be the best possible outcome.

9 That will lead you to the best regulations based on  
10 the best science. If not, I think that you will have other  
11 people to battle with about it.

12 I think Jim, that if they are willing to separate  
13 the two documents, and make it clear that we did not approve  
14 of the preface, in terms of the integrity of this Panel, and  
15 in terms of our position of what we have said being clearly  
16 represented on the record, and in the document, I think that  
17 is reasonable.

18 I think at that point if they persist with it they  
19 are going to have other problems that are not caused directly  
20 by us.

21 That is a different fight for different people,  
22 that is politics, and we should get back to worrying about  
23 the science.

24 DR. PITTS: Okay.

25 DR. SEIBER: Well, are we headed, we do not have to

1 the take a vote on this or anything.

2 DR. PITTS: We have to take a vote. We have to  
3 take formal action.

4 DR. FRIEDMAN: I have nothing to add.

5 DR. PITTS: I was just asking if you had more to  
6 add.

7 DR. SEIBER: A motion is needed if we have to vote.

8 DR. PITTS: Yes, I will make just one  
9 administrative comment. Whether or not there is motion or a  
10 vote. That is fine.

11 I ask, would the sense then be, the fact that if  
12 they intended to keep the preface, this is my point, we made  
13 a resolution, so we have to at least address it, what we  
14 intend to do with the resolution, to be structurally sound.

15 The resolution if the ARB decides to keep the  
16 preface in the staff report executive summary in for the  
17 identification inorganic lead and the toxic air contaminant  
18 of March of 1997, the SRP finds this ARB modified document  
19 for lead to become seriously deficient.

20 I am not trying to put a spin on it, but I think  
21 that I heard that it is going to be kept in there; is that  
22 what I heard you say?

23 EXECUTIVE OFFICER KENNY: That is correct, we are  
24 going to keep it in the ARB document.

25 DR. PITTS: Fine, then my question is, I have five

1 people sitting here on the Panel, how do you then intend to  
2 handle the question; does that make it seriously deficient?

3 If it does not make it seriously deficient then do  
4 you want a statement in any sense or form, that is what I  
5 would like to discuss.

6 EXECUTIVE OFFICER KENNY: If I could make a  
7 comment. With regard to the resolution, it was my sense that  
8 the SRP primary concern was, at least in the resolution  
9 language, that there was a sense that the ARB had modified  
10 the SRP's findings, and so I took that resolution as really  
11 reflecting upon the SRP findings in the SRP documentation,  
12 what we were trying to do in terms of crafting this approach  
13 was really separated out and make it very clear that there is  
14 no preface on the SRP documentation or on the SRP summaries,  
15 the preface only exists with regard to the ARB document.

16 DR. FROINES: What I think the problem is and Craig  
17 said it best, and I think Stan said it, and we said it at the  
18 last meeting, the problem is that the preface does appear to  
19 be a contradiction of the findings of the Panel, because the  
20 Panel said this, and the industry said this, and the preface  
21 does not say what the industry says, but it says more like it  
22 than what we said.

23 So, how do you interpret that, you interpret it  
24 like somebody, that in fact there is a contradiction that we  
25 have. It is a problem.

1           I think it is problem that is personal at some  
2 level, but we feel that the Board rejected this Panels  
3 findings.

4           That is what is sticking in everybody's craw, I  
5 think. Everyone wants to move on.

6           The emotional part is that it still looks to me, I  
7 don't know if the word snookered is the right word, but I  
8 think that it is a decision that the Board made that  
9 contradict our findings.

10           Everyone is uncomfortable with that. It is not  
11 like, as though anyone wants to go to war, everyone wants it  
12 to go away if it can.

13           DR. GLANTZ: I don't see what formal action is  
14 necessary by the Panel at this point. The resolution, I was  
15 not here when it was passed, but the resolution, as Jim read  
16 it, says that it was prospective decision, if that stuff  
17 stays in there that it is the panel's view that the report is  
18 seriously deficient.

19           DR. PITTS: To clarify it, that in fact, that  
20 report is seriously deficient.

21           DR. GLANTZ: So I do not see that there is a need  
22 for any more voting on our part. I think what you need to be  
23 aware of is that you are moving forward with a document which  
24 this Panel, if it were brought to us for a vote, would say it  
25 is seriously deficient.

1           AB 1807 says you are supposed to make decisions  
2 based on the best available science as certified by this  
3 Panel.

4           That is what you are clinging to and I think that  
5 at that point Mr. Sher and his pals will read this  
6 transcript, look at the document and deal with it.

7           We have made our views as clear as we possibly  
8 can. Maybe I'm missing something.

9           I don't see the need for further action. We have  
10 made the Panels view very clear, as clear as it possibly can  
11 be.

12           If you move forward and use the document as you  
13 have currently constructed it for risk assessment purposes  
14 regardless of whether it is a Brown cover or a Red cover,  
15 there are statements in there that were dated by this Panel,  
16 presented vociferously by the Lead Industry and rejected by  
17 this Panel and the Panel has said that those statements are  
18 incorrect and not justified by good science, and if it was in  
19 the report with our name on it as opposed to your Red report,  
20 we would say that it was seriously deficient.

21           I don't understand why the Board would want us to  
22 move forward with that record, but I think that beyond that I  
23 do not know what else to do.

24           We have made our views clear. It unfortunate that  
25 this situation evolved the way it did.

1           It is there. We have done what we can do and let's  
2 move on now. Other people will continue this discussion in  
3 other venues though if it is not fixed.

4           DR. FROINES: Yes, that can happen.

5           DR. GLANTZ: And I rather it didn't, frankly.

6           DR. FROINES: I do think that we have made, we have  
7 now aired it. We have made our statement.

8           I think we have to move on. We can't, or we have  
9 to resign, or something like that.

10           I don't think we should do that, because then we  
11 have a good Panel that will not do their work anymore and  
12 I'll have appoint a whole bunch of new people and we will  
13 never get anything done.

14           DR. PITTS: Okay.

15           DR. FRIEDMAN: I'm confused about the document.  
16 When we talk about a report being seriously deficient or not,  
17 we are talking about the OEHHA ARB report; is that correct?

18           This Red document that they created, do we comment  
19 on what the ARB said about it being seriously deficient.

20           DR. GLANTZ: This is the first time that anyone can  
21 remember that where the ARB did something like this, and took  
22 and adopted statements and modified the scientific findings,  
23 even indirectly.

24           DR. FRIEDMAN: Is that put out to be OEHHA and ARB  
25 statement or is that their own separate.

1 DR. GLANTZ: Now it is reconstructed as their own  
2 separate document.

3 DR. FRIEDMAN: That is not something that we are is  
4 our purview to declare as seriously deficient.

5 DR. GLANTZ: It unclear I think the statement has  
6 been made.

7 DR. FROINES: We do not have any legal  
8 jurisdiction?

9 DR. GLANTZ: The intent is very clear and I think  
10 that is important.

11 DR. SEIBER: If I remember right, and it is hard to  
12 remember the exact wording, but I think the real concern was  
13 that a preface was being added to our document, words to that  
14 effect.

15 Now, Mr. Kenny is making it clear to us, or at  
16 least to me, that that preface is not being added to our  
17 document, our document, which I believe was Brown, remains.

18 I'm a little worried about us walking away and not  
19 saying anything and letting our previous resolution stand.

20 It appears that Mr. Kenny has made an important  
21 clarification that we need to take that into consideration,  
22 and I think that Dr. Friedman has probably expressed it  
23 better, we do not want to be in the position of saying that  
24 the, now the Red document is deficient because I don't know  
25 that that is what we intended by that resolution.

1 DR. BYUS: The point that I made last time is not  
2 that they put a preface on anybody's document, the point is  
3 what does it say, what does the preface say in whoever's  
4 document it is.

5 What does it say, what are the words, what does it  
6 mean, that's the important point, not what document it is on,  
7 or whether there is a preface or not, etcetera.

8 What does it mean, and what will happen in the  
9 future based on what you said in that preface. That is when  
10 we have some responsibility to deal with in whatever  
11 legalistic manner, or whatever, and maybe there is nothing we  
12 can do.

13 That is the point. The language of this preface is  
14 not good. It is not well done.

15 DR. FRIEDMAN: Haven't we made clear though at a  
16 previous meeting and at this meeting that we totally disagree  
17 with it.

18 DR. GLANTZ: Can I make a motion if you want the  
19 motion.

20 DR. PITTS: Yes.

21 DR. GLANTZ: I move that having expressed it's  
22 views that the preface is added is misleading scientifically  
23 and could lead to risk management which not based on the best  
24 available science, that we now close this discussion.

25 I think the message has been transmitted. I think

1 in terms of something being added to the document that  
2 represents this Panel, that problem has been solved.

3 I would like to move for closure. I think we have  
4 said what we have to say on this.

5 I urge the ARB to reconsider the preface.

6 DR. FRIEDMAN: That's a long motion.

7 DR. PITTS: Put that in a somewhat shorter frame  
8 work.

9 DR. GLANTZ: Okay, well, I will try again.  
10 Basically, I will say that the SRP reiterates its view that  
11 the preface added by the ARB does not represent new  
12 information or the best available science, and the SRP again  
13 urges the ARB to remove it, and that be the end of this issue  
14 before this Committee.

15 DR. FRIEDMAN: Second.

16 DR. PITTS: Any further discussion.

17 DR. SEIBER: Could you reread the words.

18 DR. PITTS: What he said. Could you do that.

19 DR. PITTS: I have that the SRP reiterates it's  
20 view that the preface added misleading, does not represent  
21 the best science.

22 DR. FROINES: He said it better the second time.

23 Can you read it?

24 DR. PITTS: Thank you.

25 (Thereupon the record was read.)

1 DR. PITTS: Is there a second to the motion?

2 DR. SEIBER: Can we discuss the wording.

3 DR. PITTS: We need the second.

4 DR. FROINES: I just wanted to raise one thing, I  
5 think Mr. Kenny has been very forthcoming today. I think we  
6 appreciate that.

7 I wanted to say that maybe he has an opportunity to  
8 say something further before we proceed.

9 EXECUTIVE OFFICER KENNY: I appreciate the spirit  
10 in which the debate is going on right now. I was looking at  
11 the potential resolution before you and that was the one with  
12 regard to the Red document and the Tan document.

13 Again, the clear design here was really to make it  
14 very clear that there was no intent on the part of the Air  
15 Resources Board when it adopted this preface to any way  
16 modify anything that the SRP had done.

17 The ARB did view what the SRP had done as a stand  
18 alone final document. Now at the same time, I am not in a  
19 position to tell that you that the ARB is going to remove  
20 that preface from it's own document.

21 The ARB did adopt that particular language. The  
22 ARB when it adopted it was comfortable with that language.

23 Your views have been and will continue to be  
24 conveyed to them. I believe that that preface will remain in  
25 the ARB document.

1 I did not want there to be any kind of  
2 misunderstanding here.

3 DR. GLANTZ: If I could just add one thing, you  
4 might want to suggest to the ARB, we go through this whole  
5 big long process to approve these documents.

6 We do have a procedure in place which is used from  
7 time to time to take into account new information and modify  
8 the documents accordingly.

9 You actually saw it happen here in the ETS document  
10 where one of the end points was removed in response to public  
11 comments.

12 You might want to go back to the ARB and point out  
13 that maybe they have some new information from this Panel  
14 that they might want to consider.

15 I think we have reached a status on this and we  
16 should just allow the ARB to move forward now however it  
17 chooses and let them continue to survey in other forums to  
18 the extent that that is appropriate or necessary.

19 DR. SEIBER: I would like to offer alternative  
20 wording to the resolution it is really a modification that  
21 ramps off of what you have already proposed.

22 DR. PITTS: Sure go ahead.

23 DR. SEIBER: The SRP reiterates it's view that the  
24 preface added by the Air Resources Board does not represent  
25 new information, and may be subject to misinterpretations,

1 and is separate and distinct from the scientific findings of  
2 the Scientific Review Panel.

3 DR. GLANTZ: I don't like it. Because I think it  
4 is misleading.

5 I realized poor you and Pete were sort of  
6 sandbagged a little bit at the meeting. I think that of all  
7 of the compounds that we have dealt with the only one with  
8 the level of certainly of harm is higher than lead is  
9 secondhand smoke.

10 To put forward a statement saying that there are  
11 substantial uncertainties or whatever, is not true.

12 DR. FROINES: Stan, you are the one who is arguing  
13 to put it aside. The problem that we have is going back  
14 forth between the principle and the process.

15 We need a way to.

16 DR. GLANTZ: I think we want to make it clear, -- I  
17 would be happy with your rewording if you added a phrase in  
18 there to say that we don't think that it represents the best  
19 available science.

20 I don't think that it does, it is contradictory to  
21 some of the findings of the Panel.

22 DR. SEIBER: I see your point Stan, but here is my  
23 problem with that. We debated a lot about what where this  
24 preface would go, we did not really sit here and debate the  
25 words in the preface itself.

1           I think that we had to have a whole separate  
2 discussion on the wording is it really a departure from the  
3 sciences available maybe it is, maybe it isn't.

4           That is not what we debated we debated where the  
5 preface was going to go way more than we did.

6           DR. BYUS: I was concerned whether the preface  
7 existed or not, or where it went. I said, it is what the  
8 preface says that is the key thing, not where it is.

9           DR. FROINES: The problem with the preface was not  
10 the preface per se, it was the preface in the context of the  
11 process, that is what happened.

12           It is appearance that we are concerned about, not  
13 the specific language. It was the appearance that the  
14 preface, --

15           EXECUTIVE OFFICER KENNY: To extent that the  
16 appearance was the issue and appears to continue to be the  
17 issue, what we have tried to do is craft a resolution that  
18 addresses that appearance, and we tried to do that really in  
19 two ways, one, with the specific documents that are in issue,  
20 and two, with the recognition that we do not want to see this  
21 happen again.

22           So for the future we have a process that goes  
23 forward so that we don't see it happen again.

24           DR. BYUS: Let me ask you this, does the Board  
25 intend to let lead air concentrations go up in the State of

1 California?

2 EXECUTIVE OFFICER KENNY: No.

3 DR. BYUS: Are you sure about this?

4 EXECUTIVE OFFICER KENNY: I am sure as I can be as  
5 staff member of the ARB, but I cannot speak for the Board,  
6 but that is my opinion.

7 DR. BYUS: My opinion, is the key point.

8 DR. FROINES: There is another point which is we  
9 currently have a national ambient lead air standard 1.5 micro  
10 gram per cubic meter, which should not continue, but that is  
11 a risk management issue and I don't think that we should  
12 necessarily get into that get into that.

13 I think that the 1.5 micro gram standard is  
14 terrible, but that is the next stage of the process. We  
15 should not be holding their feet to the fire.

16 DR. FRIEDMAN: I would like to call the question.

17 DR. PITTS: Is there further discussion?

18 DR. GLANTZ: He proposed an amendment essentially,  
19 I don't know why, so the thing is to vote.

20 DR. PITTS: Now, I think then, okay, perhaps I  
21 could make a quick comment as Chair while we are commenting.

22 It seems to me that the preface, or resolution, is  
23 in fact seriously flawed and has a major problem when the  
24 preface said low levels of lead.

25 The report clearly defines low, as I understand,

1 and maybe I am wrong, but my understanding was ARB actually  
2 scored a magnificent triumph going to catalyst cars, low  
3 leaded gasoline, in fact low, in the context, and I think  
4 maybe this is what the Board meant, that low in the context  
5 of use meant .01 to .06 current ambient levels, and it did  
6 not apply, this is my biggest concern, both in the resolution  
7 and the preface.

8 I think that the preface is one issue, but the  
9 resolution could come back to haunt you also, because low  
10 could be interpreted as, and I heard that it has been, and  
11 currently in your hot spots for example, it has happened.

12 Low is considered, does it meet the Federal Air  
13 Quality Standard of 1.5 micro gram, because that is a very  
14 important point, and that is the point, I think one of the  
15 key issues in this whole thing.

16 I will be a lot happier if it is possible for the  
17 Board to insert into that resolution, and if it is going to  
18 be a preface or whatever the Panel decides, insert after low,  
19 be interpreted as .06 micro grams per cubic meter which would  
20 clarify that issue which would indicate that again the point  
21 was made that we respectfully did not want to see the lead  
22 levels rise.

23 Would that be possible?

24 EXECUTIVE OFFICER KENNY: I think in direct  
25 response to that, the answer is generally yes, in terms of

1 the specific mechanisms by which they do that, we have to  
2 work on that a little longer.

3 DR. PITTS: Might that be something that you would  
4 be prepared to do?

5 EXECUTIVE OFFICER KENNY: Yes, because I think that  
6 is what the Board did. I think that when the Board is  
7 referring to low, they were referring to the low that you are  
8 talking about, they were not referring to the other types of  
9 higher levels.

10 What we have to do is figure out the mechanism.

11 DR. PITTS: If I hear, does that not make some of  
12 you happier about the action for the sake of the ARB  
13 resolution, that if that were in there I think that would  
14 make it clarifying.

15 DR. SEIBER: I don't have a problem, I still think  
16 we are hung up on some really fine things here.

17 DR. PITTS: You think that definition of low  
18 whether it is 1.5.

19 DR. SEIBER: No, that is the way we heard it when  
20 we were there, for me that is not a problem that is what we  
21 meant.

22 DR. PITTS: What about somebody reading that, these  
23 are sent all over the world.

24 DR. SEIBER: Nothing wrong if you want the exact  
25 number added, that is the fine, if you can figure out a way

1 to do that.

2 DR. PITTS: I'm not saying what I want, I am just  
3 suggesting that might be a good idea. I was curious if the  
4 Panel thought it was a good idea or not or whether the ARB,  
5 it might at least help clarify this issue because this will  
6 go outside of the State of California and other people  
7 weren't present at that ARB meeting.

8 EXECUTIVE OFFICER KENNY: Dr. Pitts, I do think  
9 that the Board really was referring to the low levels in the  
10 context basically of all of the information that the Board  
11 heard that day, and in the context of the discussions that  
12 occurred, the levels were basically in the.01 to.06 range,  
13 they were not at the higher levels.

14 DR. PITTS: Fine, if that is the case.

15 DR. FROINES: I don't know how.

16 DR. PITTS: I am just saying that when they have  
17 low, in the preface, you put in parentheses you put.01 to.06.

18 DR. FROINES: If I could say that the data is  
19 uncertain at low levels, it does not say what the low levels  
20 are.

21 DR. PITTS: In this case what was implied by low in  
22 the whole discussion with the document.

23 EXECUTIVE OFFICER KENNY: The Board has basically  
24 met, and adopted the resolution, and adopted the specific  
25 language in that resolution, so it is very difficult to

1 change that resolution.

2 In terms of the preface itself, there is not a  
3 reason why we cannot in the context of the language that is  
4 in the preface, provide some context for that that particular  
5 word means.

6 DR. PITTS: Thank you.

7 EXECUTIVE OFFICER KENNY: We will look to doing  
8 that.

9 DR. GLANTZ: The other part that I object to is the  
10 statement about uncertainty because I think there is  
11 relatively little uncertainty. But any way, that is why I  
12 don't like it.

13 Where do we go with this thing? Do we need to have  
14 a formal motion, can we communicate without it, what do you  
15 want Mr. Chairman?

16 My personal preference is rather than having Jim  
17 and I get into an argument about a formal motion, I think  
18 that we have transmitted the message, and I personally would  
19 just assume to see both motions withdrawn.

20 The transcript is there, and people who are  
21 interested in this will read it, and move on, unless the  
22 Chair thinks we need formal action.

23 DR. FROINES: I want to make a technical point.  
24 Which is at .06 micro grams per cubic meter of air, you take  
25 20 cubic meters of air per day for a person that breathes.

1           That gives you a daily lead value of 1.2 micro  
2 grams. The current proposition 65 standard is .5 micro grams  
3 per day.

4           In other words at .06 you could be exposed to more  
5 than double the current proposition 65 level. I don't want  
6 us to be in the position where the Board is saying there are  
7 scientific uncertainty in the health effects information at  
8 levels that are more than twice the existing proposition 65  
9 standards.

10           Where is consistency within this state when we  
11 start to do that. That is crazy.

12           This is why I am going crazy, you are saying the  
13 current proposition standard is .5 micro grams per day and  
14 what you are saying is that 1.2 micro grams per day has  
15 associated scientific uncertainties.

16           That is why I am concerned about putting this low  
17 lead level in because if you put in .01 you have to go do the  
18 numbers on this, you can not do it as a policy issue. This  
19 is a scientific matter.

20           DR. SEIBER: John, is that .5 micro grams per  
21 kilogram, what is the basis.

22           DR. FROINES: Per person.

23           DR. SEIBER: Doesn't matter how big they are.

24           DR. FROINES: It is not a good standard.

25           DR. GLANTZ: That is.

1 DR. SEIBER: That is strange. I don't like that  
2 standard.

3 DR. FROINES: That's not the points.

4 DR. GLANTZ: I want to come back to the question.  
5 By separating the documents, the objection that the Panel had  
6 that the ARB was messing with our document, that has been  
7 fixed.

8 That issue has been clarified, and we are told that  
9 that will not be a future problem. I think we made it very  
10 clear again that we don't think that the preface was good  
11 science.

12 It is on the record, it is in the transcript. I  
13 think that is adequate.

14 If need be, we can pass a resolution, and Jim and I  
15 can argue and find the proper wording. I don't think any  
16 resolution is necessary, I think that the record is there.

17 I think if the ARB chooses to ignore what this  
18 panel said, other people will deal with the problem.

19 I think we have discharged our responsibility in  
20 terms of putting forward the science and defending the  
21 science.

22 DR. FROINES: I think the only issue with the  
23 resolution, and I agree with you on that, is because we have  
24 some other resolutions that we didn't last time.

25 The intent is for clarification purposes and I can

1 live with either one of those two statements.

2 I think that we need some clarification from the  
3 Panel, otherwise we are left kind of hanging.

4 DR. GLANTZ: Since I don't like this change, should  
5 we just vote on whether to amend it.

6 DR. SEIBER: How about if we caucus over the  
7 language and bring a resolution back, just the two of us.

8 DR. GLANTZ: Okay. Before that, I think there was  
9 there was a caucus during the break about the last sentence  
10 in 18.

11 DR. FRIEDMAN: We could deal with that quickly  
12 now.

13 DR. BYUS: Before you do that, some people in the  
14 audience don't know what 18 is.

15 DR. FRIEDMAN: There are requests to, we were  
16 talking about number 18, and people did not have it in front  
17 of them I'll just read that to them, it says that ETS should  
18 be added to the list of a substances for which cancer and non  
19 cancer guidance values have been reviewed and approved by the  
20 Scientific Review Panel, plus ETS should be included as  
21 indicated in Tables 1 and 2 in the attached, as can be seen  
22 from the Tables the public health impacts of ETS exceed those  
23 of all other prior compounds identified as toxic air  
24 contaminants to date by this Panel, and in parentheses it may  
25 it exceed that combined, question mark.

1           So that was 18 and what I am proposing and the  
2 three of us, Craig and Stan were supposed to talk about it  
3 over lunch, but we quickly talked about it at the break, is  
4 that we completely drop 18 and at the end of 17 which goes  
5 into all the deaths that could be caused, we just say, thus  
6 ETS has a major public health impact, period, and leave it at  
7 that.

8           We propose that.

9           DR. PITTS: How did the Panel feel about this,  
10 other members, Jim, are you in agreement with that?

11          DR. SEIBER: I'm sorry.

12          DR. GLANTZ: Just say yes.

13          DR. SEIBER: I think I do.

14          DR. FRIEDMAN: We drop 18 and add to 17, thus has a  
15 major public health impact, period.

16          DR. GLANTZ: So moved.

17          DR. SEIBER: Seconds.

18          DR. PITTS: All in favor, okay. For the record.

19 Dr. Froines left for a moment and did not vote.

20          Absent for the vote. Yes, it is quarter of two.

21 How about reconvening at quarter to three.

22          Then we will go to item three of the agenda, I mean  
23 item two.

24          DR. PITTS: John, would you vote?

25          Put it unanimous.

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(Thereupon the lunch recess was taken.)

1                   A F T E R N O O N   S E S S I O N

2                                   --o0o--

3                   DR. PITTS:  Shall we reconvene.  Given the certain  
4 constraints on time that we have, I have talked to Peter  
5 Venturini with him about the possibility of perhaps deferring  
6 item 2, the presentation on air monitoring and analysis  
7 programs for toxic air contaminants perhaps about excluding  
8 that program.

9                   I can assure you that there is great interest on  
10 our part.  But my interest is personal, as a matter of fact,  
11 I had the opportunity to visit the laboratories there, and  
12 the upper division, and the technical support, and it was a  
13 very impressive set up, and people, and the facilities, and  
14 what you are doing is first class.

15                   I had hoped that, we would like to have enough time  
16 to really open this up.  It is essential if you are talking  
17 about exposure, part A, and 18, it is exposure it is critical  
18 to the risk assessments and validity of these programs and  
19 the actual risk management programs depend on this.

20                   What is your feeling?

21                   MR. VENTURINI:  For the record my name is Peter  
22 Venturini I am Chief of Stationary Source Division at the Air  
23 Resources Board.

24                   From our perspective we would concur and be more  
25 than happy to come back to the next meeting with the

1 presentation rather than going through it quickly.

2 We really have a really good story to tell you and  
3 we would like to be able to tell you the whole story, not an  
4 abstract of the story.

5 We would be more than happy to come back to the  
6 next meeting and present it to you.

7 DR. PITTS: I appreciate that very much, I  
8 apologize for having this take place, but it happens fairly  
9 frequently, and still your team had an interesting chance to  
10 see what goes on in one of these meetings, so it is somewhat  
11 educational, amusing, and so in that respect it may not have  
12 been a total loss.

13 Also I think you can see the critical role played  
14 by monitoring analysis programs, reliability and relevance.

15 Collecting the data, that is just absolutely  
16 critical, programs across the spectrum of Cal EPA, the  
17 pesticides, the ARB, and we would appreciate that.

18 Jim, you had your had up.

19 DR. SEIBER: Just a quick comment. I am looking  
20 forward to the presentation.

21 I just wanted to put in my druthers that it  
22 include, and I think that it probably will, and you have got  
23 it, how do you monitor for toxic air contaminants, the  
24 criteria, and all of the other is interesting too, but we are  
25 particularly interested in the toxic air contaminant aspect.

1           MR. VENTURINI: The focus is toxic air  
2 contaminants.

3           DR. PITTS: All right. We will move on to the next  
4 item on the agenda which would be risk assessment by the  
5 division of pesticide research.

6           DR. PITTS: Oh, before we do. Sit down gentlemen.  
7 Let's decide what happened at lunch time on the item that you  
8 were debating.

9           DR. GLANTZ: Well, he had a BLT and I had a chicken  
10 sandwich, and we both had French fries, but I don't think  
11 that there is an agreement on the motion.

12           So what I would suggest is that we vote on Jim's  
13 motion as an amendment to my motion and I personally will  
14 vote against it and then vote on my motion.

15           DR. PITTS: Well then, is there, we are going to  
16 vote on your motion?

17           DR. SEIBER: My suggested language is as follows.  
18 The SRP reiterates it's view that the preface added by Air  
19 Resources Board to the document, and then we will name the  
20 document and get the exact title of it so we will call it ABC  
21 for now, does not represent new information and is separate  
22 and distinct from the scientific findings of the SRP, and the  
23 document, X Y Z and we will get the title of that document, I  
24 am referring to the Red and Tan documents, but I do not have  
25 their exact titles.

1 DR. GLANTZ: I think that we want to say that we  
2 don't, I think that the preface as it is worded does not  
3 represent good science. It suggests that there is a lot more  
4 uncertainty than there really is.

5 The low is undefined. I could go with that, but I  
6 want to say that we don't think that the preface they wrote  
7 is good science.

8 DR. PITTS: Do you have a problem with that Jim?

9 DR. SEIBER: I guess I do because I am not sure  
10 that the Panel really has adequately discussed, or debated,  
11 the science and the words in the preface.

12 We all kind of have our feelings, but we have to  
13 look at the exact words and see what is wrong with them and  
14 we have to quantify them.

15 Stan may be right. I just don't think we have had  
16 that discussion on the words in the preface itself.

17 DR. PITTS: What is your pleasure gentlemen?

18 DR. FRIEDMAN: I was very satisfied today that we  
19 expressed our views, they are in the record, and I don't feel  
20 we need a motion.

21 We don't need to pass a resolution.

22 DR. PITTS: Okay. That is a third alternative.  
23 How do you feel about that Stan?

24 DR. GLANTZ: I could live with that too. I thought  
25 you wanted a motion. I go with whatever the sense of the

1 Panel is.

2 DR. PITTS: John, how about you?

3 DR. FROINES: Earlier I thought we needed a motion  
4 because we needed to clarify our original motion from last  
5 meeting.

6 If nobody feels that is an issue, I certainly don't  
7 feel that we necessarily need to.

8 DR. BYUS: Well, I think that it is an issue, I  
9 really do. The least that we should do is Stan's motion  
10 saying that the science included in the preface is not  
11 correct.

12 I believe that. I don't think there is too much  
13 doubt about that in my mind, the way that it is written.

14 The least I would do is Stan's motion.

15 DR. GLANTZ: I'm happy with that. What do you  
16 think Jim?

17 DR. PITTS: I agree with Craig.

18 DR. GLANTZ: Then we need a motion.

19 DR. PITTS: Well, I will not vote. You are the  
20 Panel.

21 DR. FRIEDMAN: Are we coat voting on the two?

22 DR. GLANTZ: The procedure would be parliamentary  
23 procedure, he has offered an amendment to my motion, which I  
24 do not like.

25 So you can either vote his amendment up or down,

1 and then we vote on my motion.

2 DR. PITTS: All right. How about a vote on the  
3 amendment, all of those in favor, raise your hands. Those  
4 opposed. Okay.

5 Now, we are now back to your statement. So will  
6 you read it for the Court Reporter so that we have it very  
7 clearly.

8 Read it out your head into her. It is in a heap of  
9 paper, basically the motion is as it was made back in the  
10 transcript.

11 Basically what it says, is that we appreciate the  
12 documents that are now separated, but think that the preface  
13 that the ARB has adopted, does not represent good science,  
14 basically, it was worded more artfully and we should use the  
15 previous.

16 DR. PITTS: We agreed that we can go back and we  
17 can retract that motion, all those in favor say aye,  
18 opposed. Okay.

19 The vote is one, two, three, four five ayes.

20 DR. PITTS: Okay, it is passed.

21 DR. GLANTZ: I hope not to discuss it until next  
22 meeting.

23 DR. PITTS: That was part of this motion that we  
24 put an end to this discussion.

25 DR. PITTS: We just put an end to the discussion.

1 DR. FROINES: Next time you guys go out and have  
2 something worked out at lunch time and we will send a  
3 mediator, or an arbitrator.

4 DR. GLANTZ: Well actually we didn't discuss it, we  
5 agreed that we both wanted French fries. After dealing with  
6 heart disease this morning.

7 We had a very friendly lunch.

8 DR. PITTS: The next item is update on the  
9 Pesticide Risk Assessments Program, criteria for examples of  
10 pesticide monitoring in outdoor and indoor air relevant to AB  
11 1807 and other Department of Pesticides Regulation Programs,  
12 DPR staff.

13 Let me just give a little background for the Panel,  
14 they were not at that meeting Monday there were just the two  
15 of us.

16 Why don't you, Jim, give a quick rundown on the  
17 meeting with the DPR on Monday. We are raising an issue, I  
18 think the key to what we were discussing earlier, the Panel,  
19 I think that the key here revolves around the letter and who  
20 has applied or not applied by a different process in the  
21 generation of risk assessments for pesticides.

22 We run across very diametrically different  
23 approaches in this letter to me as Chair, which was May 20,  
24 addressed to, forwarded to all Panel Members, this points out  
25 that basically that, the bottom line basically says that the

1 law refers to toxicity and only in conjunction with  
2 exposure.

3           Two major tenets of the field of toxicology are  
4 that the dose makes the poison and that toxicity is not an  
5 intrinsic property of a chemical, both of these facts require  
6 that an organism be exposed to a chemical before toxicity can  
7 be expressed, therefore without exposure there is no  
8 toxicity. DPR will continue to take this approach with  
9 respect to evaluation of pesticides as toxic air  
10 contaminants.

11           We hope that SRP will work with DPR through the  
12 toxic air contaminant process consistent with the existing  
13 laws and regulations.

14           The letter starts out actually by saying, I hope to  
15 resolve an apparent misconception held by some members of the  
16 SRP panel, at the March 19 1997 meeting of the SRP.

17           There is a very important issue here and I have  
18 talked to the Panel Members, and they feel that it is  
19 important too that we get clear where we are coming from  
20 relative to the infamous input from this, from this action  
21 signed by Jean-Mari Peltier, this was the letter that we got,  
22 I don't know if all of you can read that, and you have, there  
23 is another page.

24           You can all read that, and you might want to push  
25 that up a bit, too. Their position is that they advocate

1 solely on the basis of toxicity.

2 I think actually that we come more from a  
3 perspective of an 1807 process. Here is the section of the  
4 code, and the director responsibility, and then the next over  
5 head and read this.

6 This is the section that relates to risk or harm,  
7 amount of emission, manner of usage, persistence in the  
8 atmosphere it sounds very much like part A of 1807, very much  
9 like that.

10 Although the law does not specifically mention  
11 toxicity, oncogenicity, carcinogenicity, these are all  
12 provided for, shall evaluate the health effects which poses a  
13 present hazard, and then the bottom paragraph and this is the  
14 bottom line here, this is the approach that is taken.

15 I would like to see, as we ask on Monday, perhaps  
16 we could discuss this approach. Any comments on the part of  
17 the Panel as to this approach.

18 How you feel about this approach that is clearly  
19 specified by DPR, who are in charge of risk assessments under  
20 1807, but it is a different approach than 1807 has been using  
21 for ten years.

22 Comments?

23 DR. FROINES: I have a couple of comments. The law  
24 does say, as I read it, amount, or potential amount of  
25 emissions, so, the potential amount of emissions is left out

1 of that, but that is okay because it seems to me that in the  
2 part A process of AB 1807 process that ARB goes through and  
3 makes an estimate of what air born concentrations actually  
4 exist.

5 Presumably those are not that list of five bullets  
6 is not inconsistent with that, with what happens in part A.

7 This is sort of a question, the part of the, there  
8 is a science issue and a policy issue it seems to me.

9 The policy issue is that DPR, I think, has made a  
10 decision to approach this issue on a quantitative basis as a  
11 policy decision.

12 DR. SANDERS: So that is true.

13 DR. FROINES: Then there is the second issue, which  
14 I take as a scientific issue, which is that when we are  
15 measuring the amount of benzine in the ambient air, or as a  
16 result of hot spots, those are two kinds of determination  
17 which people make.

18 Where as at another level there are differences  
19 when pesticides are applied, but they are applied on a  
20 certain time period, and it may not be applied for a period  
21 time after that.

22 So there is a scientific issue about the  
23 differences between ambient concentrations, and pesticide  
24 concentrations.

25 Those raise scientific questions, where it is a

1 little harder for DPR to approach it in the traditional 1807  
2 process, if I make myself clear.

3 Where the 1807 and the DPR determination are most  
4 similar is around the 25 88 process and pesticide  
5 applications, because at some level, 25 88 is hot spots, but  
6 it is possible pesticides are even more intermittent in some  
7 ways.

8 There are two questions for us, one is to discuss  
9 the policy considerations that DPR has made, and the second  
10 is what are the scientific differences that make assessments  
11 of air born pesticide concentrations more complicated than  
12 the traditional 1807 ambient concentration, that is my sense  
13 of the issue.

14 DR. SANDERS: I am John Sanders, Chief of The  
15 Environmental Monitoring and Pest Management and this is  
16 Kevin Kelly who is one of our staff scientist and assists  
17 me.

18 I think that you have listed out the issues as you  
19 see them. I am a little bit at a handicap because I am not  
20 familiar with how ARB is doing the part A or the hot spot  
21 program, but I think there is a policy issue as well as a  
22 scientific issue, and we welcome that discussion, especially  
23 the scientific issues.

24 DR. FROINES: Do you think what I said was okay,  
25 Jim, in terms of the facts that they are complicated issues

1 about pesticides.

2 DR. SEIBER: Yes. I agree that it is a special  
3 case for two reasons, one of which is that what you mentioned  
4 about the intermittent use and the intermittent exposure, but  
5 secondly, pesticides are toxic inherently, I think that we  
6 can all buy that immediately, that they would not be good if  
7 they weren't bad.

8 You know they are toxic to begin with, the question  
9 is whether there is risk for people that live nearby, or  
10 furtherer away from where they are used.

11 You need to combine that to make that judgment, you  
12 need both the toxicity information as well as the exposure.

13 That is not that different from what we have always  
14 done, it is more a question of approach, how do you approach  
15 it.

16 We all know that need both of them for risk to  
17 occur. I guess that I would take exception to that one  
18 statement that toxicity is not an intrinsic property of a  
19 chemical.

20 I think they probably meant the risk is not an  
21 intrinsic property of a chemical. I believe that toxicity,  
22 if you measure the L D 50 of benzine in Russia five years  
23 ago, it ought to be the same as what you get tomorrow in the  
24 United States, as long as you use the same species of animals  
25 and the same administration, etcetera, and so in a way it is

1 an intrinsic, it is locked up in the molecular structure, the  
2 compounds, the toxicity, it flows from the structure, it is  
3 an intrinsic factor, the properties, so that is a  
4 misstatement.

5           You need them both. We are going to have a problem  
6 with pesticides, as John has already referred to it.

7           We don't have an ongoing monitoring data. We don't  
8 have a bunch of stations out there collecting pesticide  
9 exposure information, we have to go out and measure it every  
10 time we want to consider a given pesticide, and that ain't so  
11 easy.

12           I had a few others things to say, I don't know, are  
13 you going to make a presentation John?

14           DR. SANDERS: Fine.

15           DR. PITTS: Let's kick this around a bit more.

16           DR. SANDERS: This is what the Panel wants to talk  
17 about, and this is fair game, I mean, it is time to talk  
18 about it.

19           DR. SEIBER: Let me make a few other comments about  
20 pesticides, first of all I think that we got a sense on  
21 Monday, and at some of our other meetings, that even though  
22 only one chemical has made it through this Panel for  
23 consideration that was ethyl perithesis that in fact the  
24 spirit of AB 1807 is in fact being played out by DPR and ARB,  
25 and they have to collaborate on this.

1           ARB does part of it an DPR does part of it. We all  
2 understand that.

3           For example, Typtelon was suspended which was one  
4 of the most extreme actions you could take for pesticides for  
5 a couple years until they figured out how to lower the  
6 exposures.

7           When we read the reports we find that they changed  
8 the formulation, they did a whole bunch of things to reduce  
9 emissions, to reduce exposure.

10           I don't think the Panel should feel that since only  
11 one chemical has come here that there hasn't been some  
12 playing out of the 1807 process.

13           I don't think that the story has been told and  
14 maybe we can fault DPR for not putting it all into one  
15 story.

16           Here is what we have done because 1807 exists and  
17 because it is part of the process. I would like to see that  
18 story told better.

19           Having said that, I think we are having a hard time  
20 between the Panel and the DPR figuring out where are the real  
21 problems. I think that we all agree, we want to focus on the  
22 real problems.

23           Ethyl bromide has surfaced, is one that seems to be  
24 a problem, it is very volatile, it gets in the air, there is  
25 no question about it, it's vapor pressure is high, and it is

1 toxic, and it is used around where people live.

2 We need to make a real effort to pick out the  
3 potentially bad actors, and there are 400 and some pesticides  
4 registered in the State of California, and most of them are  
5 not a problem with respect to toxic air contaminants.

6 So, those are just two rambling comments about  
7 pesticides as toxic air contaminants.

8 DR. PITTS: Any comments?

9 DR. GLANTZ: Well, I continue to be extremely  
10 frustrated with the whole pesticides thing. I, some years  
11 ago, longer ago than I care to remember, I was sort of the  
12 liaison person with Food and Ag, as it was at that time,  
13 trying to move this.

14 I think we got no where. I really think it just  
15 isn't working.

16 They may have done some things independently, that  
17 were good things, but I think 1807 process has as outlined,  
18 as I understand, the law, and we have implemented it working  
19 with ARB, despite the bump in the road that we hit with lead,  
20 which hopefully is behind us now, has gone pretty well, with  
21 pesticides, basically again, except for ethyl perithium, they  
22 will nothing has happened.

23 I was under the impression that when Chief Peltier  
24 was here a couple of meetings ago that we were beginning to  
25 move towards some sort of commonality of view, but when I got

1 this letter I thought that we are just back to the bad old  
2 days.

3 I'm very pessimistic about this. What my feeling,  
4 and I sent Jim a letter about this, but I thought it was sent  
5 to the committee.

6 DR. PITTS: They did not send it out.

7 DR. GLANTZ: I know, it turns out that it was faxed  
8 to the wrong place and it ultimately got there by snail  
9 mail.

10 We should just admit that it is not working and  
11 send a letter to the Governor and the Legislator and say that  
12 the pesticides provisions of AB 1807 have basically had no  
13 effect over the life of the Bill, and that people should know  
14 that, and either repeal them, or change the way that it  
15 works.

16 What I think should be happening, and Jim and I are  
17 working on this prioritization scheme that we may or may not  
18 get to talk about today, but I would like to see pesticides  
19 thrown in the same bin with everything else and have the  
20 hazard identification phase done by OEHHA and ARB, exactly  
21 the same procedures as everything else, because I don't think  
22 it is working with DPR, just like it didn't work with Food  
23 and Agriculture.

24 I'm very discouraged by this letter, and to me it  
25 is just something that isn't working. To have ten or eight

1 years ago, we got one thing through. That is my view.

2 DR. BYUS: I'm puzzled. I was kind of optimistic  
3 in the recent meetings with DPR because I thought things were  
4 moving forward, but I am a little discouraged by the letter  
5 as well.

6 Toxicity is an intrinsic property of a chemical  
7 especially when exposure assessments is so difficult for the  
8 pesticides, it makes it more important that you consider the  
9 chemical toxicity, inherent toxicity, separate from it's  
10 exposure characteristics.

11 If the exposure characteristics were very well  
12 defined, and we had a lot of data on it, and a lot of good  
13 information, you might be able to do risk assessments this  
14 way.

15 Without that really good exposure information, and  
16 a lot of it, it makes it very difficult to do. Am I wrong  
17 here.

18 It will make it very hard to do, how are you going  
19 to know exactly without the base of knowledge about the  
20 chemical, and of the pesticides, to start with?

21 DR. SANDERS: Well, we take the exposure  
22 information that we have and we put that together with the  
23 toxicity and then come up with risk.

24 I'm curious about your interpretation of the  
25 letter. If we don't have exposure, then how do you see it

1 working?

2 DR. SEIBER: You have got to have exposure.

3 DR. BYUS: More exposure, better data.

4 DR. SANDERS: Okay, so you are saying that we do  
5 not have enough exposure data to satisfy you, is that what  
6 you are saying.

7 DR. SEIBER: Let me interject. They have collected  
8 exposure data for I think 20, I don't know how many  
9 pesticides now.

10 DR. SANDERS: I have it as part of my presentation  
11 proceedings, about that number.

12 DR. SEIBER: Lynn Baker is in the back, you wrote  
13 an article that details all of the exposure information.

14 For the one's that were on the list for potential  
15 TAC consideration, they went out, and at great expense,  
16 developed the information.

17 It may be not as complete, or geographically spread  
18 out, or whatever as we might like, but at least it is data.

19 DR. SANDERS: I guess, part of the problem here is,  
20 let me do a little historical, I see where you are coming  
21 from, is that for the first eight years or so, we felt that  
22 we would have two separate programs.

23 Right now we have risk assessments that come out  
24 due to the SB 950, which is the Birth Defects Act, where  
25 pesticide manufacturers are required to submit data on 200

1 active ingredients that are considered the most concern, and  
2 since then that has been amended to include health studies on  
3 all of them.

4           So we have that coming along, and the risk  
5 assessments are starting to come out of that now, the data  
6 submitted from most of them is coming out.

7           That is a separate process, we thought 1807 was  
8 going to be a somewhat similar, and we have a different  
9 process for that.

10           So, basically although we had candidates, and we  
11 had ARB go out and collect the monitoring data, we didn't  
12 have risk assessments for those same compounds.

13           As part of my presentation, I will show you the  
14 number of compounds that we do have monitoring data for, and  
15 we do have risk assessments completed for, and close to  
16 completion, and therefor we believe that we are going to  
17 start presenting more reports to you, hopefully three this  
18 year, and three next year.

19           DR. SEIBER: I would hate to see us get caught up  
20 on this letter, I would like to hear John's presentation, see  
21 where they are at, and what they have got, and what they are  
22 planning to do in the next six months, or twelve months, or  
23 whatever time period.

24           I'm not ready to give up.

25           DR. PITTS: Who said.

1 DR. SEIBER: On using the 1807 process, which I  
2 think is what Stan said, that it just ain't working, I'm not  
3 convinced it's not working and that it won't work.

4 DR. PITTS: I guess, any other comments on that?

5 DR. FROINES: I think, just one comment, I think  
6 Jim, by the way is very correct, that number two is not  
7 correct, that really it should say that risk is not an  
8 intrinsic property of the chemical and that raises a serious  
9 question.

10 One of the fundamental questions is that we know  
11 that the Clean Air Acts Amendments of 1990, Congress  
12 established 189 hazardous air pollutants.

13 There are problems with that as we all know and we  
14 do not need to necessarily review that, but they did, and lo  
15 and behold the world did not come to an end.

16 Dow and DuPont did not start to lose money. There  
17 wasn't a significant economic impact, or social impact, or  
18 scientific impact whatsoever.

19 Then, what is happening is ARB is going to collect  
20 exposure data on those 189 hazards and collect information on  
21 toxicity to develop the models for risk assessments.

22 It seems that one could take a series of 20  
23 pesticides and then go collect exposure data and collect  
24 toxicity data and it would not have any more negative impact  
25 than 189 TACs.

1 DR. SEIBER: Some of them are in the list, there  
2 are some pesticides in there.

3 DR. FROINES: I am addressing the policy issue, it  
4 seems that there is no particular downside of taking 20 of  
5 the most important pesticides and saying these are toxic air  
6 contaminants, now we will do an exposure, toxicity, and risk  
7 evaluation.

8 It seems to me that it there doesn't need, I do not  
9 know what the intrinsic reason is for a difference in policy  
10 between ARB and DPR.

11 DR. PITTS: That raises an interesting question.  
12 189 TAC's. Doesn't the 1983 ARB Board itself declare these  
13 189 TAC's were in fact TAC's and was that not.

14 DR. SEIBER: You mean 1993.

15 DR. PITTS: Well it seems like 1983 today. If that  
16 is the case then if methyl bromide is in fact on that list,  
17 they are TAC's.

18 DR. SANDERS: That one has already been adopted by  
19 us also. 35 pesticides are TAC's.

20 DR. PITTS: Now the question is, how do we handled  
21 TAC's, how do we handle the 35, that is the question, the  
22 similar question arises for the other compounds that now have  
23 become TAC's.

24 DR. FROINES: We have a strange contradiction don't  
25 we, and we have 34 Tacs.

1 DR. PITTS: And this says it is not.

2 DR. FROINES: Do we need this as a policy  
3 formulation?

4 DR. PITTS: That is why I brought it up, is it a  
5 logical formulation of policy when they are already declared  
6 toxic air contaminants? How do you reconcile that?

7 DR. SANDERS: We have taken a certain approach  
8 because of the resources that we have, and the concerns that  
9 we already have about tea loan and methyl bromide we have  
10 already taken extensive action on reducing exposures to those  
11 already, just not through the 1807 process.

12 DR. PITTS: In the case of Delta, we have a risk  
13 assessment that came out January 10 this year, and when you  
14 look at the risk assessments and Panel Members examined this  
15 and this is the difference between 1807 and your processing.

16 This is basically, the specific for this applies  
17 only to this specific situation. It was a situation in  
18 certain fields, risk assessments, but that risk assessment  
19 applied only for those conditions.

20 DR. SANDERS: I'm not familiar with that risk  
21 assessment.

22 DR. FROINES: Tea loan when it came back on.

23 DR. FROINES: But you have now another specificity,  
24 was part of the agreement that DPR made with Delta.

25 DR. FROINES: That criteria was based on the

1 decision to reduce exposure and in agreement with the  
2 farmers.

3 DR. SANDERS: Their restrictions on it's use, the  
4 caps on the actual use of it, as part of the conditions.

5 I guess we have taken a different perspective in  
6 the sense that we do not feel that we can take action on a  
7 compound that we are concerned about so that we do not wait  
8 for the 1807 process.

9 That does not mean in some sense that we couldn't  
10 already bring it forward to the Panel, we can do that.

11 We have already taken action on some of these that  
12 we do have concerns on. We are not taking action on all the  
13 34 compounds at one time, but we do have some compounds, like  
14 tea loan, methyl bromide, that we are going forward with and  
15 controlling.

16 DR. PITTS: Okay.

17 DR. SEIBER: I was hoping to see part of the  
18 presentation.

19 DR. SANDERS: Okay we just have a very brief  
20 overhead but it touches on a little bit of this in the sense  
21 that it shows the compounds that we monitored for whether we  
22 had a risk assessment.

23 Go to the next one. These are some compounds in  
24 various states of the process. An RCD is a risk  
25 characterization document contains the exposure assessment as

1 well as the risk assessment.

2 Those that we have RCD's completed. You can see a  
3 list, we have monitoring data, available monitoring data  
4 requested from the Air Resources Board, and we have some that  
5 we have not requested the data yet.

6 Those in the green have TACs, and they have been  
7 adopted as TACs by the Department of Regulation.

8 This is the list of compounds that we do not have  
9 the CD completed yet, we have monitoring data available from  
10 the Air Resources Board, and the main reason that we have  
11 such a long list of compounds is because we didn't merge the  
12 two process, one being the risk assessment process with the  
13 monitoring request and that is what we are doing now, and  
14 leads us to believe that we can bring more pesticides before  
15 you.

16 The green have TACs.

17 DR. PITTS: Didn't methanol perathion come before  
18 the Panel five years ago.

19 DR. SANDERS: Yes, I think two or three years ago.

20 DR. PITTS: Did anything happen?

21 DR. SANDERS: We were planning to bring it to you  
22 at the end of the year. The risk characterization document  
23 contains both the exposure assessment as well as the risk  
24 assessment, these are compounds that we requested from ARB  
25 monitoring data.

1           Next. Here we are looking at the summary of the  
2 data that the Air Resources Board has collected for us, we  
3 have two types of concentration data, what we derive exposure  
4 from.

5           There is ambient, or community air, where they take  
6 the samples. We give them a recommendation, I have an  
7 example, we tell them which counties has the high use season,  
8 pesticide use for a particular pesticide is intermittent,  
9 generally speaking.

10           Again we have data and TACs, cap tan, tea loan.

11           DR. SEIBER: John, I hope that is a mistake .016 on  
12 your second highest positive for chemo.

13           DR. SANDERS: That is.

14           DR. SEIBER: That is below the MDL.

15           DR. SANDERS: John, I'm sure that is an error. It  
16 is per parts per trillion.

17           For example T loan, that would be three.5 parts per  
18 billion. Next.

19           DR. FROINES: One question. Who does this, this is  
20 ARB?

21           DR. SANDERS: Air Resources Board is mandated by  
22 law to collect the data for us.

23           DR. PITTS: Did the ARB report these in that form  
24 to you?

25           DR. SANDERS: Lynn Baker is here from the Board.

1           MR. BAKER: We submit reports to DPR on each  
2 pesticide in a summary form with a table such as this one  
3 with a maximum value, the number of samples, at each of the  
4 ambient monitoring sites, as well as the actual raw data.

5           A table like this could be extracted from the  
6 summary tables from our reports.

7           DR. SANDERS: What was your question Dr. Pitts.

8           DR. PITTS: I bring this up so periodically, do you  
9 mean it was 3.5, basically four eighths parts per billion.

10          MR. BAKER: We usually report the data in  
11 micrograms per cubic meter.

12          DR. PITTS: I like that. This way you have four  
13 significant figures, you would be lucky to measure that as  
14 three, or four, or two.

15          MR. BAKER: We report to the number significantly  
16 bigger so we have the least significant figure.

17          DR. PITTS: You don't mean that these are  
18 significant figures significant figures. Measure back in the  
19 parts per quadrillion range is pretty impressive.

20          MR. BAKER: We usually only have two significant  
21 figures.

22          DR. PITTS: Good that is why I asked the question.  
23 I think that it is really important if you wanted to, and I  
24 should point this out again, you really ought to sit down and  
25 decide what your accuracy is and what your proceedings are.

1           They are very different and really the numbers that  
2 you put on there are very important to convey important  
3 information as to what you think the reliability of the data  
4 is.

5           In some cases nitric acid one PPB or two PPB,  
6 either one, they both give you numbers, it is somewhere  
7 around there, if you are within a half of a PPB by  
8 conventional methods, you are not in bad shape.

9           Your precision will be a lot better. You make a  
10 point of going back through these and decide how the methods  
11 actually work.

12           DR. SANDERS: Again this is the ambient monitoring  
13 that the ARB has done. This is where they take samples like  
14 at schools, or fire stations, and they are not necessarily  
15 related to any application, but they are in an area where  
16 there is high use.

17           DR. PITTS: MITC is that methyl isocyanate that  
18 damn soda, that was the damn sodium spill in Sacramento.

19           DR. SANDERS: Dunsmir.

20           DR. PITTS: Is that the fields data.

21           MR. BAKER: The maximum was Kern County around the  
22 soil fumigation.

23           DR. PITTS: After the spill, in Dunsmir after the  
24 spill down wind. You have a report.

25           MR. BAKER: I don't remember the numbers.

1 DR. PITTS: That is the fumigation fields.

2 MR. KELLY: The monitors are set up in an area  
3 where the application is being made but no applications being  
4 made for at least half a mile.

5 DR. PITTS: Half a mile away. That is good  
6 information.

7 DR. PITTS: So you are getting 6DDB, 7DDB of methyl  
8 isocyanate half a mile away. Or whatever.

9 Okay, just so we get it clear, all right.

10 DR. PITTS: It does goes to exposure which is the  
11 heart of what we were talking about even in the letter.

12 MR. KELLY: They were at least a mile away.

13 DR. SANDERS: The data is not put in full context  
14 because I'm just giving you the maximum positive that we  
15 got.

16 They had different averaging times, the samples  
17 were two, or four, or six hours, that is a lot of information  
18 and it is something that is pretty simplified just to give  
19 you a feel for things.

20 It is not in full context, remember that. Next.  
21 This is application site monitoring.

22 This is where they are at in the actual field  
23 application, so you would expect higher levels.

24 Offhand Lynn, what are the distances from where the  
25 monitors are in the field.

1           MR. BAKER: Where the ambient sites are a half mile  
2 to a mile, these are generally 10 to 20 meters from the edge  
3 of the fields, typically all four sides of a field.

4           DR. PITTS: That methyl bromide they pick, what is  
5 the methyl bromide.

6           MR. BAKER: The samples are collected to go.

7           DR. PITTS: What the methyl bromide, I want to see  
8 that. So, that is now, that is that looks like 9 tenth of  
9 the part per million as an ambient concentration.

10          MR. BAKER: Hot spot. These samples are four hours  
11 in duration versus the 20 hour samples.

12          DR. PITTS: So you do not know what the peak was?

13          MR. BAKER: That is correct, that is 900 thousand  
14 parts per trillion average over four hours.

15          DR. SANDERS: Our current target is the 24 hour  
16 weighted samples.

17          DR. FROINES: I want to comment here, there are so  
18 many important scientific issues that we need to talk about,  
19 and one of the process questions seems to me to be, what are  
20 we all about in here?

21                 Because when we think about ARB, and we think about  
22 ambient monitoring, it is like pack years, you measure  
23 chronic cumulative exposure, so many pack years, you have  
24 been smoking for four years, you smoke so much a day, you get  
25 so many packages.

1           We think of say cancer as a phenomena which is  
2 based on cumulative exposure, but neurotoxicity, reproductive  
3 toxicity, and a whole host of other toxicities are not  
4 necessarily best characterized by cumulative dose models,  
5 that the time course of exposure becomes quite crucial, so,  
6 when we talk about what 1807 is all about, we have  
7 historically thought about it as this ambient issue, but that  
8 is a very narrow view of toxicity and exposure and pesticide  
9 becomes the particular case in point, I think, in that the  
10 distribution of exposures may be very important for methyl  
11 bromide because methyl bromide is a very powerful neurotoxin  
12 and the question is you may not have a significant ambient  
13 concentration but you may have some peak values that may be  
14 quite important in terms of toxicity to the public, not just  
15 to the workers.

16           That raises important questions about how are we  
17 going to really look at the issue of exposure and toxicity  
18 for these compounds as opposed to looking at it in the  
19 traditional monitoring sense because monitoring doesn't  
20 necessarily tell you everything that you need to know about  
21 toxicity and exposure, these are scientific questions, these  
22 are not in any way meant to be criticisms.

23           They are meant to be things that we have to  
24 consider, I think we still need to figure out what is 1807 of  
25 toxic air contaminants all about with respect to pesticides

1 as a matter of science.

2 DR. PITTS: To follow that up.

3 DR. FROINES: Non linear thinking.

4 DR. PITTS: I will follow that up, I have a couple  
5 of over heads. This is the study of what you are talking  
6 about, is time concentration profiles for toxins and this is  
7 actually done in the DPR study.

8 Time concentration profiles, I wanted you to notice  
9 the units on the study. Understand this is the time  
10 concentration for methyl bromide for a residential home  
11 following structural fumigation, it was started six hours  
12 after it was declared safe for reentry, using an a grater  
13 tube. These units are parts per million, not billion, and it  
14 has been declared safe so presumably one can go in there and  
15 you wind up with closing the windows and it builds up to 25  
16 PPM and you open a garage door and you wind up with a rather  
17 interesting exposure scenario there, for with one to be  
18 involved.

19 I would call this acute and very different than  
20 what you are dealing with, with the typical air born half a  
21 mile away.

22 These are important because the problem here, and I  
23 have one more, there are very good conclusions from this to  
24 support the piece of work by DPR this is a very important  
25 paper.

1           You have changed the regulations based on these  
2 studies, we are not averaging the 24 or 48 and then this is  
3 certainly the bottom line you are now going to be involved  
4 there is going to be a comparative study of charcoal methyl  
5 bromide study.

6           DR. SANDERS: John I do not know if FDIR is going  
7 to be involved we are going to check out the charcoal.

8           DR. PITTS: Too bad you do not have the old  
9 reference.

10          DR. FROINES: The important thing is toxicity is  
11 also time dependent. We tend to look at 1807 too simply.

12          DR. SANDERS: We welcome a full discussion, there  
13 are a lot of issues to discuss.

14          DR. PITTS: Another issue that we have to discuss  
15 is when use the methyl bromide, did I mention this to you,  
16 but if you use methyl bromide which is widely used as a  
17 fumigator, one man takes it is safe alternative, and that has  
18 toxicity that is even more lethal than methyl bromide and  
19 hydrolyze and you get chloride. There is not in a drager  
20 tube but how the air leaves the home.

21          DR. SANDERS: I am not familiar with the aeration  
22 procedures.

23          DR. PITTS: You declare on which it is used in  
24 place of methyl bromide. How does one define safe.

25          We saw exposure being so important and if you do

1 not know how to measure it, do you define exposure in terms  
2 of how long you have windows open.

3 DR. SANDERS: I'm not familiar with the aeration  
4 procedures, I would have to find out. I know in methyl  
5 bromide they did use tracers.

6 DR. PITTS: That is sensitive to 5 PPM. Go ahead.

7 DR. SANDERS: That was our presentation.

8 DR. PITTS: Any questions by the Panel?

9 DR. FRIEDMAN: I may be confused, but the letter  
10 says without exposure, but you have shown there is a lot of  
11 exposure.

12 DR. SANDERS: There may be a miscommunication. I  
13 think we took your comments to mean that we did not need any  
14 exposure data to proceed with 1807, and our position is that  
15 we do need exposure, but what I am hearing today is that you  
16 want more exposure data to go with what we have.

17 DR. FRIEDMAN: It sounds like you already have  
18 some.

19 DR. SANDERS: We do. We do not have the risk  
20 characterization document to go with it and the ARB has parts  
21 A, B and C, and we have part A, and C, but not B the health  
22 part.

23 That is why we have not gone forward on those  
24 because we do not have the risk assessments part.

25 DR. FROINES: I think, unless I am mistaken, SRP

1 here has taken the position that we they will establish a  
2 quantitative exposure value which will be sufficient to  
3 define a compound as a toxic air contaminant and if they  
4 don't reach that threshold then it won't necessarily be  
5 defined as a toxic air contaminant.

6 That is not the 1807 process, the 1807 process does  
7 not establish a quantitative basis for the determination of  
8 substances of toxic air contaminant data based to exposure.

9 DR. SANDERS: We have a disagreement there.

10 DR. FROINES: That is the issue.

11 DR. BYUS: It is a crucial issue because of the  
12 exposure, the difficulties of getting the exposure, and time  
13 dependency, and where you get it, and the averaging that you  
14 go through, the modeling makes what you are trying to do even  
15 more difficult for us.

16 DR. SANDERS: I think there are all kinds of  
17 scientific issues that you can talk about that give you input  
18 that are valid things.

19 All the way from the monitoring data and there are  
20 a lot of issues around that, it could be improved, and of  
21 course depending on the resources that you have and how much  
22 data you collect.

23 DR. PITTS: Are there any other comments? If not.  
24 I thank you very much for showing up and we hope to continue  
25 this dialogue.

1           The Panel is certainly interested in and receiving  
2 your questions that you may have and then the dialogue if you  
3 would like to see us, what information we could provide you  
4 from A, from the process and B, our view of the science,  
5 which is much more fun.

6           One of the things that I am interested in and I'm  
7 not a toxicologist, but my understanding is that when in the  
8 methyl bromide case, when you take 200 MPPB per 24 hours and  
9 then we said that is for one hour, then you say concentration  
10 times time is a constant, and then you say for one hour 21  
11 times 24, maybe 5 PPM and that is viewed.

12           Then if the concentration were not to the first  
13 power, say it were to the second or fourth power then you  
14 would have C to the fourth times time. This linear  
15 assumption is not correct.

16           As I understand there has been some work in the  
17 report that says that methyl bromide that is C to the fourth  
18 times time from their analysis and you have that data also  
19 and that is an interesting point and I would like to see work  
20 done with some characterization and you people to get  
21 agreement on whether it is C times T, or C times C squared,  
22 or C cubed.

23           Maybe is it C to the third. See the inaccuracies,  
24 if it is to a higher power we cannot go linearly to the C T  
25 function.

1           That is an important aspect. Okay.

2           DR. GLANTZ: I have one other thing now that Jim  
3 came back, Jim and I have been working with ARB on  
4 prioritizing scheme for the Haps, which we may or may not get  
5 to today, but I think that the overall approach that has been  
6 developed is pretty reasonable.

7           In the process of doing that several of the  
8 chemicals on the list that got skipped over were pesticides,  
9 and the reason that they were skipped over is that they were  
10 pesticides, and that is under DPR.

11           Now that Jim is back, I realize that you guys have  
12 not seen this prioritizing, but do you think it would make  
13 sense to try to integrate the pesticide compounds with the  
14 stuff that is going on in the other prioritization process to  
15 make sure they are focusing on the right things, or do you  
16 think that makes sense.

17           DR. SEIBER: Chemicals are chemicals. If we agree  
18 that these four criteria are important for all of the other  
19 TACs, they should be is same for pesticides.

20           In that regard I would be very tempted to see if it  
21 fits and merge the two maybe that way.

22           I think the problem, and John explained it to me  
23 once, they have gone through a number of what you might call  
24 back of the envelope assessments, and they are way off the  
25 chart, there is not enough exposure for most of the

1 pesticides, the vapor pressures are way too low.

2           You will not get in the traditional sense the kind  
3 of effects that you get with the Benzene because they do not  
4 fall in the category.

5           I know we are all kind of frustrated with the  
6 process, but we have to understand what we are dealing with.

7           DR. SANDERS: That is another issue we have to talk  
8 about. We have the regulation in place and very few of these  
9 pesticides today would have a chance of becoming a TAC based  
10 on the current regulations.

11           DR. FROINES: There is a process question on how to  
12 proceed to deal with some of the scientific issues and the  
13 process and I think Stan is right we need some way to move  
14 ahead.

15           I have to go.

16           DR. PITTS: Okay. Thank you very much. All  
17 right. The next item on the agenda is the prioritizations on  
18 the TAC identifications and the summaries, and that is ARB  
19 staff.

20           MS. SHIROMA: Good afternoon, we have two very  
21 short presentations for you, the first one is on our toxic  
22 air contaminant identification list summaries and we have  
23 Michelle Houghton here, she is an air pollution specialist  
24 who has been with the branch for a number of years.

25           We brought a document and you can see how thick it

1 is, we sent everyone a copy in April of the latest version  
2 and we getting ready to finalize the document.

3 Michelle has a very short presentation to give you  
4 today an overview, and then after that we will talk about  
5 this prioritization work that Dr. Glantz mentioned.

6 DR. GLANTZ: This gets the award of thickest  
7 document.

8 MS. HOUGHTON: Good afternoon. In the next few  
9 slides I will be providing you with a brief overview of the  
10 Toxic Air Contaminant Identification List Summaries Report.

11 This is designed to be California specific and a  
12 non regulatory informational document for the chemicals  
13 listed on the identification list.

14 As you will hear in the next item, the report is  
15 used as a primary source for prioritizing substances for  
16 entering into the toxic air contaminant identification  
17 program.

18 This slide summarizes the type of information  
19 included in the report for each substantial. As you can see  
20 physical properties, sources and emissions, ambient  
21 concentrations, indoor sources, atmospheric persistence, AB  
22 25 88 or toxic hot spot risk assessment information, and  
23 health effects, are included in the report.

24 Information for several of these sections was  
25 provided by Department of Pesticide Regulations and the

1 Office of Environmental Health Hazard Assessments.

2 I would like to briefly summarize for you the  
3 changes we plan to make after today's meeting. In early May  
4 the proposition 65 list of chemicals known to the state to  
5 cause cancer, or reproductive toxicity, the new list will  
6 replace the list the September 1996 list in appendix F, and  
7 individual summaries will reflect the new listing.

8 The U.S. EPA Air Risk Information Support Center is  
9 working on a similar report to ours entitled Health Effects  
10 Notebook for Hazardous Air Pollutants, a public review draft  
11 of this document was published in December of 1994, and has  
12 been a valuable resource for our report.

13 We are in contact with you US EPA and will be  
14 adding any new information on hazardous toxicities to report  
15 to the final release of our report.

16 DR. PITTS: Let me ask, did you say that the  
17 basically 94 is, was the data in the report from 94 EPA, up  
18 to then it was the data, is 1994 data in the report.

19 MS. HOUGHTON: Now, yes.

20 DR. PITTS: Do they update that data regularly, is  
21 there an updating process for that data.

22 MS. HOUGHTON: They have not released us another  
23 draft yet.

24 DR. PITTS: Is there a draft in process.

25 MS. SHIROMA: Yes.

1 DR. PITTS: I presume when the draft comes in then  
2 your information will be updated.

3 MS. SHIROMA: That is next slide.

4 DR. PITTS: I set it up. That is question that  
5 would be asked.

6 MS. HOUGHTON: To make this document more user  
7 friendly, we have added some cross referencing tools.

8 We are planning to release the final report in  
9 September of this year, and we will have it available on CD  
10 ROM, the ARB Health Page, and in a hard copy format.

11 We are also planning to review an update for the  
12 report in approximately two years. Thank you for your  
13 interest and we will answer any questions that you have.

14 DR. PITTS: You did, you were brief. An on point.  
15 I want to congratulate you on that document. From what I  
16 have seen, it is impressive and again it is a landmark source  
17 of information.

18 It will be used widely, not only in regulatory  
19 agencies in California but widely on the world wide basis.

20 It is remarkable. Will EPA use it also as a  
21 reference source.

22 MS. SHIROMA: They have been asking for it  
23 regularly.

24 DR. PITTS: That is neat, they have it on the on  
25 the record, that is harmonization, right, Jim, let the record

1 know that Jim nodded his head, I used the word harmonization  
2 and he nodded yes.

3 DR. SEIBER: Yes.

4 DR. PITTS: These are not just California documents  
5 or highly restrict to locals, but a broad scale summary of  
6 how many compounds are there total.

7 MS. SHIROMA: 244, minus acetone, 243.

8 DR. PITTS: That is fine. Are there any questions  
9 or comments?

10 DR. SEIBER: I had a question, when I read over the  
11 summary presentation, you said that there would be some  
12 contact made with the local air districts as part of the  
13 prioritization scheme and I wondered how you were doing that  
14 and what kind of input that you were receiving and not about  
15 the specific chemicals and.

16 MS. SHIROMA: We cover that with in our next  
17 presentation Jackie Johnson.

18 DR. PITTS: I thought you were done, the lights  
19 were on.

20 MS. SHIROMA: Shall we go to the next  
21 presentation?

22 MS. SHIROMA: Our next presentation is by Jackie  
23 Johnson also with my branch, she will provide an update on  
24 the TCID list prioritization and the list update. Jackie has  
25 been an air pollution specialist with the Board since 1993,

1 and recently worked on lead, and now on the list of  
2 prioritization.

3 DR. GLANTZ: Are there like special service medals  
4 for working on lead?

5 MS. SHIROMA: There ought to be.

6 MS. JOHNSON: I am here today to present to you the  
7 results of our work to prioritize the substances on the AB  
8 1807 Toxic Air Contaminant list or TAC identification list  
9 and our proposed update to the list.

10 We update the TAC identification list periodically,  
11 we believe it is appropriate to reorganize the list this year  
12 for the following three reasons.

13 First to better reflect what we know about the 189  
14 federal hazardous air pollutants identified as TACs in 1993.

15 Second to note which TACs have health values under  
16 development as part of the SB 1731 risk assessments  
17 guidelines.

18 And lastly to reflect the substance nominated for  
19 review as a result of our prioritization work. We are  
20 proposing that the TAC identification list be reorganized  
21 into six categories. This overhead shows the first three  
22 categories. These three categories are basically addressing  
23 the TAC that have been identified through AB 1807 or by  
24 virtue of being listed as a federal hazardous air pollutant.

25 DR. PITTS: With this list now, cover methyl

1 bromide.

2 MS. JOHNSON: Yes.

3 DR. PITTS: That is important.

4 DR. PITTS: If methyl bromide is on that list, for  
5 example, who would do the evaluation of that, is that by you  
6 people, or DPR, or both of you in conjunction, or all three?

7 MS. SHIROMA: Generally it is a partnership the DPR  
8 is the lead, and you see the Roman numeral there methyl  
9 bromide is in two A.

10 It is a HAP, it has been identified as a TAC, and  
11 it is in the review process for health values, it is in the  
12 OEHHA 1731 Health Value Report.

13 There is an acute health value there that will come  
14 to the SRP. DPR is the lead in the risk assessments effort.

15 DR. PITTS: But the actual and critical point is  
16 the actual health value, whatever, that what would you call  
17 that.

18 MS. SHIROMA: In this case it is called REL.

19 DR. PITTS: You would develop the REL. I wonder  
20 what Stan was suggesting 40 minutes ago, are they involved  
21 with the pesticides at this stage?

22 MS. SHIROMA: DPR has the lead on pesticides. They  
23 have consulted with OEHHA. There is a health value for the  
24 acute one hour exposure, this is a reference exposure level  
25 for air exposure.

1 DR. PITTS: What is that referring to? I'm trying  
2 to get it clear in my mind, what numbers you are talking  
3 about REL for and where they came. And use methyl bromide as  
4 an example.

5 DR. VANCE: This particular chemical, there was a  
6 joint working group between OEHHA and DPR to develop an acute  
7 reference exposure level and we were looking at it for  
8 community exposures, it is not just an occupational exposure,  
9 in acute we usually look at one hour to one day.

10 DR. PITTS: Okay. How you are defining it is  
11 right, one hour to one day.

12 DR. VANCE: One hour to one day would constitute an  
13 acute reference exposure level.

14 DR. PITTS: Do you have a number for that methyl  
15 bromide?

16 DR. VANCE: We have a draft number, we are  
17 revisiting it because of the issue that you raised earlier,  
18 what was the exponent to C by T.

19 DR. PITTS: Let me know when I hear about the  
20 exponent.

21 DR. SEIBER: While you are there Bill, could you  
22 give us update on the chronic, is that undergoing the same  
23 process?

24 DR. VANCE: I'm not knowledgeable, I'm not positive  
25 about the chronic.

1 DR. SEIBER: Not the same work group, they were not  
2 addressing chronic and acute.

3 DR. VANCE: To best of my knowledge it was just the  
4 acute value.

5 MS. SHIROMA: Okay, go to the next slide.

6 MS. JOHNSON: This overhead shows the last three  
7 categories, category four and five contain substances that  
8 have not been identified as TACs in the AB 1807 process.

9 As a result of our evaluation, we proposed to  
10 nominate the substances shown on this overhead for an AB 1807  
11 or SB 1731 review.

12 These substances are listed in category 2 B and 4 B  
13 of our update to the TAC identification list.

14 Substances that are federal hazardous air  
15 pollutants identified as TACs by the Board in 1993 are  
16 indicated by an asterick.

17 We plan to next hold a public comment period on the  
18 proposed changes to this Toxic Air Contaminant Identification  
19 List.

20 This will allow public comment on our revised list  
21 and on the substances nominated for review.

22 After the public comment we plan to return to the  
23 SRP this Fall with a draft TAC identification list and those  
24 substances selected for an AB 1807 or SB 1731 review.

25 We then will consider comments from the SRP and

1 take a revised list to the Board for their approval by the  
2 end of this year.

3 That concludes my presentation and if there are any  
4 questions, I will be glad to answer them.

5 DR. PITTS: That is very interesting work. This is  
6 a very important study that you are putting together and the  
7 formats are widely used.

8 I saw a hand over there.

9 DR. SEIBER: The 14, is that tentatively  
10 identified, or is that definitely identified on that last  
11 list.

12 MS. SHIROMA: Tentatively nominated.

13 DR. SEIBER: I want to use the right terminology.  
14 It may be of interest to the other Panel Members that was  
15 distilled out of a much longer list, and there was a lot of  
16 work.

17 You would not know that seeing that short list, but  
18 there was a tremendous amount of work, and effort, and  
19 thought, that went into distilling those out.

20 That is important to note. The question that I  
21 have is where will we get the exposure information or are you  
22 even worried about that at this point in time because I do  
23 not think any of those are being monitored or maybe I am  
24 mistaken.

25 MS. SHIROMA: One of the criteria is that we have

1 emissions information and/or monitoring information for those  
2 substances.

3           So, they have either, and in some cases we may need  
4 more information before we put them into the review process.

5           Right now they are in the nominated bend. You also  
6 asked about our discussion with the districts. We sent them  
7 a copy of the original list, and asked for their comments on  
8 this.

9           We received the feedback from them which helped us  
10 in fine tuning this proposal. The list that you see that,  
11 each of you should have a copy of this, this is our proposed  
12 update for this list and it will go out for public comment  
13 and as we have throughout the years we will take the list to  
14 the Board for approval.

15           DR. PITTS: Good. Good, it was probably passed out  
16 in the midst of all this stuff. Okay.

17           DR. SEIBER: I have a comment about where we are  
18 going, I am sorry we did not have time for Peters  
19 presentation, but in addition to needing more ambient  
20 information, what we really need is personnel.

21           What are people actually exposed to, and I know we  
22 have debated this before having people carry around little  
23 air samplers with them as they go through their normal  
24 activities.

25           Have you given any thought to that? Would this be

1 a good list to start thinking about getting more individuals  
2 specific exposure information on?

3 MR. VENTURINI: I think that the question is very  
4 important question. What was going through my mind is a  
5 recollection, for follow-up for you, because I think there is  
6 some work that has been done, or is ongoing to take a look at  
7 personal exposure, but the synapsis are not working.

8 We will get back to you on that. Just one other  
9 point, it is unfortunate that you did not hear the toxics  
10 monitoring presentation because part of our whole program is  
11 trying to anticipate as much as we can on the additional  
12 substances.

13 We need to start to collect the ambient data or  
14 more importantly develop analytical techniques to measure  
15 some of these.

16 That is part of our process to anticipate what we  
17 may need, but do not hold me to this but I think there is  
18 something like 60 substances that we are now monitoring, do  
19 not hold me to that, but there are a number, but part of this  
20 process is going to help us to decide where we need to focus  
21 down the road further and maybe develop analytical techniques  
22 and start looking look for some of these substances.

23 DR. PITTS: Don't you operate 700 monitoring  
24 stations?

25 MR. VENTURINI: Twenty some sites for toxics.

1 DR. PITTS: Overall like on the Mexican Boarder, it  
2 is a huge number of monitoring stations and they specialize  
3 and convention in the laboratory.

4 MR. VENTURINI: Yes.

5 DR. PITTS: That is something. I'm glad we did  
6 hold off on the presentation because I would like that full  
7 blown.

8 This is the foundation for our interest in ensuring  
9 that we have in fact come into the presentation prepared for  
10 what we are hearing as a background.

11 Is there some action that you would like the Panel  
12 take. We have a member that has to leave shortly.

13 Do you have any other more questions, tell me what  
14 the action is?

15 MR. VENTURINI: We would like at this point, if the  
16 Panel does not have any immediate comments we would like to  
17 put this out for public review and comment and we would also  
18 welcome comment from individual members of the Panel and we  
19 will bring this back to you in September outlying what the  
20 comments were, and any adjustments to this, and then we will  
21 kind of finalize it and take on it to our Board to let them  
22 know here is the latest update to the list of substances.

23 DR. PITTS: Panel Members how do you feel?

24 DR. BYUS: Fine.

25 DR. PITTS: I hear unanimous, the comments at the

1 moment is that this is first class and we appreciate all of  
2 the efforts, it is staggering, it sure looked staggering four  
3 years ago didn't it, in 1993 when you came in there to  
4 present your less than 100, infamous 189, and we all sort of  
5 oh, my gosh, and started talking priorities, but it is a real  
6 pleasure to see that between the three of you groups, and Cal  
7 EPA, and OEHHA, and ARB, and DPR, you came up with an  
8 impressive array.

9 MR. VENTURINI: I would like to express from our  
10 perspective the help and support and work with Dr. Glantz and  
11 Dr. Seiber in putting this together and the prioritization  
12 that went into developing this.

13 It was very helpful to us, and we appreciate that.

14 DR. PITTS: So does the rest of the Panel. We do  
15 appreciate that.

16 DR. SEIBER: Just as we talked about harmonization  
17 briefly a few minutes ago, the Federal EPA has the same list,  
18 and they have to decide which are important and which one's  
19 aren't. They have a prioritization scheme in mind.

20 So I don't know if you have done it already, but  
21 one thing I would like to hear at some future date is how the  
22 efforts in California compare with what is happening at the  
23 federal level and they do not have to be the same because  
24 some chemicals are more important in California than in  
25 Massachusetts.

1 Do you want to comment on that now.

2 MS. SHIROMA: Yes, we are aware of their effort and  
3 we are doing a comparison, and again as you say, in some  
4 cases some of these are not admitted in California, and some  
5 cases yes, they are, at this point we are pretty consistent,  
6 and when we come back, we will provide you with more  
7 information on that.

8 This is another case where we are working with the  
9 subcommittee and the SRP has really helped us out.

10 DR. PITTS: Thank you very much. Then I guess that  
11 brings us to the last item and that is the future meetings.

12 Bill Lockett, do you have anything that you want to  
13 say any, guidance that you would like to give us at this  
14 stage to the game, other than the way to the airport, just a  
15 mindless end of the day comment.

16 What would you like us.

17 MR. LOCKETT: Well one of the things you put over  
18 was the presentation by MLD and TSD.

19 DR. PITTS: That will be a big one.

20 We are going to set it aside, for the record let's  
21 put that right up on the top of the next meeting, and it  
22 might well be diesel on the top, and this number two.

23 MR. LOCKETT: I gather you want some more dialogue  
24 with DPR and that is an item you may want to put on the  
25 agenda.

1           My sense is given the calendar that we are aware of  
2 so far, and the timing of the diesel exhaust document,  
3 wanting that to be first, late September, first half of  
4 October is the target area for the next meeting.

5           We are trying to gather the data from the Panel  
6 Members to see which date will work for all of you.

7           DR. PITTS: Fine, any comments?

8           If not, do I here a motion to adjourn?

9           DR. GLANTZ: Yes.

10          DR. SEIBER: Second.

11          DR. PITTS: Thank you for the Panel Members, and  
12 the audience and the participants who made the presentations  
13 today.

14          Thank you.

15          (Thereupon the Scientific Review Panel  
16 meeting was adjourned at 4:30 p.m.)

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## 1 CERTIFICATE OF SHORTHAND REPORTER

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4 I, VICKI L. MEDEIROS, a Certified Shorthand  
5 Reporter of the State of California, do hereby certify:6 That I am a disinterested person herein; that the  
7 foregoing hearing was reported in shorthand by me, Vicki L.  
8 Medeiros, a Certified Shorthand Reporter of the State of  
9 California, and thereafter transcribed into typewriting.10 I further certify that I am not of counsel or  
11 attorney for any of the parties to said hearing nor in any  
12 way interested in the outcome of said hearing.13 IN WITNESS WHEREOF, I have hereunto set my hand  
14 this twenty-seventh day of June, 1997.

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