

MEETING
STATE OF CALIFORNIA
OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT
PROPOSITION 65
DEVELOPMENTAL AND REPRODUCTIVE TOXICANT
IDENTIFICATION COMMITTEE

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SACRAMENTO, CALIFORNIA

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9:06 A.M.

JAMES F. PETERS, CSR, RPR
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APPEARANCES

COMMITTEE MEMBERS

Dorothy T. Burk, Chairperson, Ph.D.

Ellen B. Gold, Ph.D.

Carl Keen, Ph.D.

Hillary Klonoff-Cohen, Ph.D.

Linda G. Roberts, Ph.D.

La Donna White-Porter, M.D.

STAFF

Dr. George Alexeeff, Acting Director

Mr. Allan Hirsch, Chief Deputy Director

Ms. Carol Monahan-Cummings, Chief Counsel

Dr. Jim Donald, Chief, Reproductive Toxicology and
Epidemiology Section

Ms. Cynthia Oshita, Proposition 65 Implementation

Dr. Lauren Zeise, Chief, Reproductive and Cancer Hazard
Assessment Branch

ALSO PRESENT

Dr. Jay Murray

Dr. Artie Lawyer, Technology Sciences Group

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PROCEEDINGS

CHAIRPERSON BURK: Good morning, everyone, the hearty people that are here bright and early.

We'll continue the meeting we started yesterday. And we are now on Agenda Item number 5, Prioritization of Chemicals for Future Developmental and Reproductive Toxicant Identification Committee Review. And we'll begin with staff presentations. Looks like Jim Donald.

(Thereupon an overhead presentation was Presented as follows.)

DR. DONALD: Good morning. My name is Jim Donald, and I'm going to briefly run through how we prioritize the five chemicals that were sent to the Committee for which compilations of relevant abstracts were sent to the Committee.

--o0o--

DR. DONALD: So this is just to refresh everyone's memory. This flow chart shows the various steps we follow in our prioritization process. The next couple of slides will briefly review the screens that were discussed with and recommended by the Committee in its last meeting. And then I'll discuss how we applied those screens and what the outcome was.

--o0o--

DR. DONALD: So our starting point for this round

1 of prioritization was the same tracking database as we
2 used previously. And from that, we identified chemicals
3 that past the initial screens as having some -- excuse me,
4 passed the initial screens for the availability of some
5 relevant toxicity data, and for some potential for
6 exposure in California.

7 And for this round of prioritization, the
8 tracking database has been updated with a substantial
9 number of additional chemicals that came to our attention
10 since the last round of prioritization.

11 --o0o--

12 DR. DONALD: So using these screens that were
13 recommended by the Committee at the last meeting, we
14 attempted to identify chemicals that are known to occur in
15 humans, and also have a substantial amount of relevant
16 toxicological data from animal studies.

17 Our specific goal was to identify important
18 candidates of direct relevance to humans. Since most of
19 our staff are toxicologists who deal primarily with animal
20 data, focusing on the animal data in this round of
21 prioritization also was intended to identify candidates
22 that would allow us to use our staff resources more
23 efficiently, since we would not be dealing only with
24 chemicals that had predominantly epidemiologic data.

25 And as I mentioned at the last meeting, we do

1 anticipate using the screen for chemicals that have
2 relevant epidemiologic data in humans, again, at some
3 point in the future.

4 --o0o--

5 DR. DONALD: For the exposure screen, we proposed
6 to begin by reviewing data from compiled sources, such as
7 the National Health And Nutrition Examination Survey to
8 identify chemicals that had actually been detected in
9 humans. Depending on how extensive those data were, we
10 also said that we would move on, if necessary, to the open
11 literature.

12 --o0o--

13 DR. DONALD: For toxicity data, we propose to
14 identify the relevant studies of apical endpoints of
15 developmental and reproductive toxicity, then chose a
16 cutoff number of studies that would yield approximately
17 eight to 15 candidate chemicals.

18 --o0o--

19 DR. DONALD: More than a thousand chemicals were
20 screened for relevant DART data by searching in TOXNET
21 using an extensive list of relevant key words. TOXNET is
22 a service of the National Library of Medicine that allows
23 searches to be conducted simultaneously on a range of
24 databases on toxicology, hazardous chemicals,
25 environmental health and toxic releases. About 730

1 chemicals were found to have evidence of developmental or
2 reproductive toxicity.

3 About 175 of those chemicals had 30 or more
4 references that appeared in TOXNET. Those 175 or so
5 chemicals were then compared to the chemicals identified
6 in NHANES as having been found in human samples. There
7 were about 133 chemicals that had both 30 or more DART
8 citations and also appeared in NHANES. So we did not feel
9 it was necessary to use any additional sources of
10 biomonitoring information or -- excuse me, any additional
11 sources of biomonitoring data.

12 When these chemicals were ordered according to
13 the number of citations from TOXNET, we found that 19
14 chemicals had 60 or more citations.

15 --o0o--

16 DR. DONALD: This table shows the 19 chemicals
17 for which we found 60 or more citations in TOXNET. We
18 decided not to proceed any further with the three
19 chemicals highlighted in the table. The two chemicals
20 highlighted in yellow, cotinine and mono-2-ethylhexyl
21 phthalate are metabolites of the listed chemicals nicotine
22 and di-2-ethylhexyl phthalate respectively. And most, if
23 not all, of the exposure to these chemicals occurs via
24 exposure to the listed parent chemical.

25 The chemical highlighted in green, genistein, you

1 heard about yesterday. It's included in an ongoing
2 evaluation of soy infant formula by the National
3 Toxicology Program Center for the Evaluation of Risks to
4 Human Reproduction, which of course is still an the
5 authoritative body under Proposition 65.

6 --o0o--

7 DR. DONALD: So as I mentioned earlier, we had
8 decided that we needed to establish a criterion for the
9 number of reports of DART endpoints that would be a basis
10 for chemicals going forward. We actually decided to
11 employ two criteria. One was that there was a total of 15
12 or more reports of relevant DART endpoints of any type.
13 And the second criterion was that there was a total of 10
14 or more reports of any single relevant DART endpoint, by
15 which we mean 10 reports of developmental toxicity or 10
16 reports of female or male reproductive toxicity.

17 --o0o--

18 DR. DONALD: The eight chemicals above the black
19 line in this table met one or more of the criteria we
20 established. For three of the chemicals, after compiling
21 the information relevant to prioritization, we decided not
22 to proceed any further.

23 In the case of platinum, which is highlighted in
24 pink in the table, all of the relevant studies were of
25 chemotherapeutic drugs that contained platinum. It seemed

1 unlikely that the contribution of platinum to the effects
2 of the drugs could be determined. The two chemicals
3 highlighted in green naphthalene and styrene were the
4 subject of recent evaluations by authoritative bodies that
5 did not lead to formal identification of developmental or
6 reproductive toxicity.

7 As noted in our 2004 prioritization procedure
8 document, chemicals are generally not proposed for DART IC
9 review that have been recently reviewed by an
10 authoritative body and found to have insufficient evidence
11 of reproductive toxicity. An exception to this may be if
12 compelling new data have become available since the
13 evaluation.

14 For both of these chemicals, we determined that
15 there had been no substantial addition to the relevant
16 literature since the authoritative body evaluations were
17 conducted.

18 --o0o--

19 DR. DONALD: So for the remaining five of the
20 chemicals benzo(a)pyrene, uranium, methyl parathion,
21 deltamethrin, and xylene, the relevant abstracts or titles
22 of studies were compiled and provided to the Committee in
23 advance of this meeting to serve as a basis for
24 discussion and recommendation by the Committee of
25 chemicals for which hazard identification materials should

1 be prepared.

2 It should be noted that these compilations are
3 intended to indicate the extent of the available data, but
4 the complete studies have not been evaluated at this stage
5 in the process. If a chemical is selected as a candidate
6 for consideration for listing, the complete studies will
7 be evaluated when hazard identification materials are
8 prepared.

9 --o0o--

10 DR. DONALD: And at this point, I'd be happy to
11 take any questions that you have.

12 CHAIRPERSON BURK: I guess I see no questions.
13 So as I understand it, the Committee will discuss each of
14 these and determine, one by one, whether or not we feel
15 that it -- that we would like to see the development of
16 hazard identification materials on that chemical, if we
17 think there is enough there or whatever. So we will do
18 that.

19 First, there's time for public comments here in
20 the agenda. I just wanted to know if anyone wanted to
21 make a comment, otherwise we'll just get started. And as
22 far as I'm concerned, we're going to do these one by one.
23 So if there are public comments on a particular one, we
24 can take them at that time.

25 Also, it's my understanding that Linda will

1 recuse herself from xylene -- oh, something else.

2 COMMITTEE MEMBER ROBERTS: Benzo(a)pyrene.

3 CHAIRPERSON BURK: And benzo(a)pyrene. So we'll
4 take five votes, whether there's five people or six
5 people, is that correct, Carol?

6 CHIEF COUNSEL MONAHAN-CUMMINGS: Well, this is
7 advice, so you don't have to have a particular number.
8 You're just giving us advice.

9 CHAIRPERSON BURK: Okay. That's fair. Good. I
10 don't like voting.

11 ACTING DIRECTOR ALEXEEFF: Yeah. If I can make
12 one comment. You don't have to have a particular vote,
13 but it would be good to get a sense if there's a
14 recommendation how much of the Committee, you know, feels
15 strongly about it.

16 CHAIRPERSON BURK: Yeah. We'll see if there's a
17 consensus or not. That shouldn't be too difficult.

18 So let's start with Benzo(a)pyrene. And I have
19 to find my notes.

20 Did anyone have a good system for this?

21 (Laughter.)

22 CHAIRPERSON BURK: I'm looking at Dr. Gold.
23 Actually, I'll tell you what I did, and then tell me
24 what you -- I mean, I went through all of them, and I
25 wanted to see, since it's mostly animal data, you know,

1 how many of the sort of traditional type of studies with
2 multiple dose levels and, you know, that kind of thing,
3 how many of the studies appear to be more mechanism type
4 of studies, sometimes seemingly by not the relevant route
5 or whatever. But anyway, just to get a sense of whether
6 when we go to look at it whether there will be enough of
7 the kind of information that we're looking for.

8 So again, since they're only abstracts, you don't
9 always know what the actual study is going to say. So
10 we're not making a judgment now on whether it be listed
11 our not, but just whether or not we should proceed.

12 So I'll let you give me -- why don't you take the
13 first one and give us your thoughts.

14 COMMITTEE MEMBER GOLD: Well, first of all, let
15 me say, I wasn't as systematic about this as I was with
16 yesterday's activities.

17 I did sort of just go through -- the ones that
18 seemed mechanistic, I didn't -- I just noted that that was
19 the case. The ones that had findings -- I'm sorry. It's
20 on.

21 So the ones that were mechanistic, I just kind of
22 noted -- made a mental note of that, but the ones that
23 seemed to have findings, I kind of -- I went through made
24 a note as to whether they were positive or negative. I
25 didn't really try to do any evaluation of the quality of

1 the studies or anything like that, just to get a sense of
2 whether there seem to be enough evidence there to suggest
3 that, you know, further evaluation should be done. So
4 that's kind of how I did that.

5 And I didn't really quantify anything like I did
6 yesterday. So I'm not sure I'm going to be the most
7 helpful person to you.

8 I do have one question, however, which is we have
9 five compounds that we're considering. Do they want a
10 ranking of those or just an indication of each one,
11 whether --

12 CHAIRPERSON BURK: I was asked to have an up or
13 down on each one, but I think if you feel that there's
14 one, in particular, that, you know, really strikes you
15 should be first, we'll offer that advice.

16 Does anyone want to comment on benzo(a)pyrene?
17 It certainly had a lot of studies at least for
18 development.

19 What I noticed is that some of the endpoints were
20 sort of interesting for development. Immunodeficiency
21 seemed to be a big one. And there was some
22 neurobehavioral toxicity, and then some male effects.

23 COMMITTEE MEMBER WHITE-PORTER: I think with a
24 couple of things. I wrote down five endpoints that kind
25 of struck me. Brain development -- the impairment of

1 brain development, along with the possibility of
2 intradermal and cranial hemorrhage. Those kind of stuck
3 out for me, as well as fetal immunity, and also the
4 impairment of fetal immunity, and neurotoxicity. Those
5 were sort of the five endpoints that really struck me
6 initially with this particular chemical.

7 COMMITTEE MEMBER KLONOFF-COHEN: I had a quick
8 question. So when I looked at the studies, there were
9 five developmental studies that looked interesting. And I
10 had a question in terms of, so if you find an interaction
11 with what you're looking at and environmental tobacco
12 smoke, like we did in one of the developmental studies,
13 and then out of the two female reproductive studies the
14 same thing, when there's a cigarette smoke involved with
15 it, does that, in any way, complicate the findings for...

16 DR. DONALD: It would certainly complicate the
17 findings.

18 Would it prevent identification benzo(a)pyrene?

19 COMMITTEE MEMBER KLONOFF-COHEN: Yeah.

20 DR. DONALD: We really couldn't say that until we
21 had looked in detail at the studies, and, you know, looked
22 at the study design, the analyses, and determine -- or
23 ultimately you would determine if it came before you,
24 whether or not you could distinguish the contribution of
25 benzo(a)pyrene to whatever effect actually occurred.

1 COMMITTEE MEMBER KLONOFF-COHEN: Okay. Thank
2 you.

3 COMMITTEE MEMBER KEEN: I can't help but observe
4 we spent four hours yesterday talking about a compound
5 that is in that precise class. I mean, sulfur dioxide --
6 all the data had other pollutants associated with it for
7 the human studies. So I think that's -- there's our
8 answer.

9 COMMITTEE MEMBER KLONOFF-COHEN: Well, since you
10 said that, Carl, I mean, I know that the five
11 developmental studies and the two female reproductive
12 studies and two male studies, but there's 37 animal
13 studies.

14 COMMITTEE MEMBER KEEN: But that was again, déjà
15 vu of yesterday where --

16 COMMITTEE MEMBER KLONOFF-COHEN: I was wondering
17 are you familiar with any of the animal studies. Like, do
18 you have a sense in terms of how strong those studies are?

19 COMMITTEE MEMBER KEEN: My opinion is, as I did
20 my internal ranking and I did have this one listed as
21 number one. I'll make that observation.

22 COMMITTEE MEMBER KLONOFF-COHEN: Excellent.
23 Okay. Great.

24 COMMITTEE MEMBER KEEN: I took some time and read
25 some of the studies for each of these abstracts just to

1 get a sense of their relative strength.

2 COMMITTEE MEMBER KLONOFF-COHEN: Perfect. Okay.
3 Great.

4 COMMITTEE MEMBER KEEN: But this one is high on
5 my list.

6 COMMITTEE MEMBER KLONOFF-COHEN: Okay.

7 CHAIRPERSON BURK: I agree as well. So I'm
8 taking that there's a fair consensus that we would want to
9 proceed with benzo(a)pyrene.

10 Let's move to the next one, which is -- let me
11 make sure I have the right one. I have deltamethrin,
12 deltamethrin an insecticide, used to eradicate external
13 parasites on farm animals, possibly getting into the food.
14 I noted there are no human studies on anything. So this
15 is strictly animal for any of the endpoints.

16 Just from glancing at the traditional sort of
17 teratology experiments, it didn't appear to be a selective
18 teratogen from this. It seemed like maybe with toxicity,
19 but there were quite a few neurobehavioral studies. And I
20 thought the male reproductive part looked potentially
21 stronger.

22 Any other comments on it?

23 How did you rank this one, Dr. Keen.

24 COMMITTEE MEMBER KEEN: I was just going to say I
25 concur with your analysis. I actually had this one ranked

1 last. That doesn't imply it shouldn't be looked at, but I
2 wouldn't do it with a sense of great urgency.

3 CHAIRPERSON BURK: Okay. All right. Do others
4 say up for this one? In other words, yeah, it shouldn't
5 be maybe the highest on the priority, but it appears that
6 there's enough sufficient data that we can at least make a
7 decision on it.

8 COMMITTEE MEMBER ROBERTS: I would -- since I can
9 chime in on this one.

10 CHAIRPERSON BURK: Okay. Please do.

11 COMMITTEE MEMBER ROBERTS: I can say that
12 although some of the developmental work is not, say, the
13 traditional teratology endpoints, they do indicate in the
14 abstracts that they are dose responsive, which is a
15 traditional way of looking at toxicology studies, which
16 would strengthen it. So it looked to me like it had
17 sufficient information for wherever it comes up in the
18 ranking. And this is more thoroughly evaluated.

19 So I think there's enough of a case for us to
20 take a look at, and not make a decision because we didn't
21 have enough information. I think there is enough here.

22 CHAIRPERSON BURK: So there's enough information,
23 yes.

24 All right. The next one is methyl parathion,
25 which is acetylcholinesterase inhibitor insecticide. And

1 does anyone want to comment on this one?

2 COMMITTEE MEMBER KLONOFF-COHEN: Well, it's the
3 same thing where we've got the two male reproductive
4 studies that look okay, but it's just a question of what
5 the 21 animal studies are.

6 CHAIRPERSON BURK: I thought the male looked the
7 strongest potentially in terms of having --

8 COMMITTEE MEMBER KLONOFF-COHEN: Yeah, exactly.

9 CHAIRPERSON BURK: One thing I did notice in the
10 male is that quite a few of those studies were from the
11 same lab if you actually went through. Not that that
12 matters. It's obviously their interest. But by the time
13 I got to -- one of them I had written down, this is the
14 same lab as five others before it. You know, so that
15 doesn't necessarily mean anything. I just noted that.

16 And then I don't remember. I put what to make of
17 the one mating study, but at least there is one mating
18 study. So where did you rank this one, Dr. Keen. I'm
19 curious.

20 COMMITTEE MEMBER KEEN: Well now, I'm going to
21 throw a curve, because I ranked this one and uranium as
22 being about equivalent. And so I had them, if you will,
23 kind of that two, three category. And where I was
24 struggling a bit and trying to filter out which one would
25 I think be higher on the priority is -- would be based on

1 information which I don't think we have. That is what is
2 the potential proportion of the population or the impact
3 of what we're looking at, because if I think I had that,
4 I'm probably going to wind up leaning towards -- I'm
5 speaking a bit out of turn here, but since this is a
6 general discussion, uranium ahead of it, because where I
7 look at the --

8 CHAIRPERSON BURK: Really. I kept asking how
9 many people are exposed to uranium?

10 COMMITTEE MEMBER KEEN: Well, in terms of
11 non-radioactive uranium, the current EPA limits some
12 people have debated that there maybe should be lowered,
13 and there's some evidence for that.

14 But again, that's -- only because I happen to
15 have read that literature did I say, "Oh, I think this
16 could be really hitting a lot of people". I don't have
17 the same information here, and I'm embarrassed to say I
18 didn't take the extra time to try to sort out what the
19 total exposure -- you know, potential for population
20 exposure is. So the long answer to your simple question.

21 CHAIRPERSON BURK: No, but we know there is
22 exposure, because that was part of the screen. I mean,
23 it's not necessarily our job to figure out how much, but I
24 know it weighs into the decision about prioritizing.

25 COMMITTEE MEMBER KEEN: Since it's ranking, yeah.

1 I think it clearly is deserving of additional study, but
2 how to exactly rank it.

3 CHAIRPERSON BURK: Well, I was confused. So
4 maybe someone on the staff could, since now we're on
5 uranium, explain to me if it's equivalent to study the
6 depleted uranium, and the enriched uranium, and then the
7 uranyl acetate dihydrate. I mean, are those all
8 considered equivalent, if we were to list uranium?

9 DR. DONALD: It would potentially depend on
10 exactly how the listing was made, if you listed uranium
11 and uranium salts or uranium and uranium compounds, it
12 would capture uranyl acetate.

13 We have some listings. For example, the listing
14 for lead has been interpreted to capture lead compounds.
15 And that was done very early on as Dr. Burk well knows.
16 And subsequent listings, we've tried to learn from the
17 problems that have arisen from earlier listings. So we've
18 tried to be as clear as possible in the more recent
19 listings as to what is captured by the listings.

20 So if uranium came before the Committee, it would
21 probably be your prerogative to determine if the listing
22 was for some particular forms of uranium, for all uranium
23 compounds or possibly even just for the metal.

24 CHAIRPERSON BURK: I just wonder if it would make
25 it tricky, because there wouldn't be as many studies. You

1 know, if we had to look at each one of those different
2 aspects of it.

3 DR. DONALD: If I could add. If we do end up
4 bringing uranium before you, we would try and make it
5 clear, you know, what the evidence was for each form of
6 uranium and hopefully inform your decision in that way.

7 COMMITTEE MEMBER KEEN: Yeah. I think that would
8 be essential, because the work I'm familiar with is
9 uranium unfortunately has a nasty habit of interfering
10 with some very specific enzymes, and it is driven by the
11 form of the uranium and the salt complex of it. So it
12 isn't very straightforward, which would make it perhaps
13 fun, but also a real challenge.

14 CHAIRPERSON BURK: So just to catch up, do we
15 have a general consensus so far on uranium too as well as
16 methyl parathion?

17 Okay. And then finally the last one is xylene, a
18 solvent. And I know that we already have listed benzene
19 and toluene, I think, because I remember those from the
20 past. I don't know why we never got to xylene in the
21 past. Was it lack of information or what?

22 DR. DONALD: Xylene has come up in the past under
23 other forms of prioritization. It just never made it to
24 the head of the queue before we switched to a different
25 form of prioritization.

1 CHAIRPERSON BURK: Now, the main thing I noted
2 there wasn't a whole lot for male or female. And there
3 was a, what seemed like a nice study in development that
4 was negative. But that doesn't matter, it's there. And a
5 lot by the Hass Lab, which seemed to be the same thing.
6 In other words, they were using 500 parts per million
7 technical xylene, and doing various behavioral --
8 neurobehavioral tests.

9 I don't know. What's your feeling on xylene? I
10 guess we're not judging it. We're saying is there enough
11 information that we think they should go ahead and --

12 COMMITTEE MEMBER KLONOFF-COHEN: There's the
13 study on -- let's see. So there was a study on
14 spontaneous abortion where the odds ratio was a 3.1. And
15 that was significant.

16 CHAIRPERSON BURK: So there is Epi, which is nice
17 to add to it.

18 COMMITTEE MEMBER KLONOFF-COHEN: Yeah. There's
19 one where there's a shorter length of luteal phase, and it
20 decrease of luteal progesterone levels. There was one
21 on --

22 ACTING DIRECTOR ALEXEEFF: Can you get a little
23 closer.

24 COMMITTEE MEMBER KLONOFF-COHEN: Oh, sorry -- one
25 on spontaneous abortions.

1 In terms of her -- so those are okay. The one
2 for the male was a combination of exposure to the benzene,
3 toluene, and xylene affected the sperm. And then there
4 are 13 animal studies.

5 CHAIRPERSON BURK: Well, it's nice to have some
6 Epi studies mixed in with the animal studies.

7 What's the feeling of the group, yea or nay?
8 Well, it couldn't have been your lowest ranked, Carl,
9 because you already had that.

10 COMMITTEE MEMBER KEEN: It wasn't. I had it
11 number four. But, you know, again, worthy of studying,
12 absolutely. But there's limited resources, it just wasn't
13 in the top few, in my opinion.

14 CHAIRPERSON BURK: All right. That's reasonable.
15 So is that information helpful to you?

16 DR. DONALD: Yes, very helpful. Thank you.

17 CHAIRPERSON BURK: Okay. Are there any public
18 comments at this point I should ask?

19 There's only two public in the whole audience.

20 (Laughter.)

21 CHAIRPERSON BURK: It's so quiet.

22 All right. So we'll proceed to Agenda Item 6,
23 Update of the list of chemicals which have not been
24 adequately tested as required presented by Carol
25 Monahan-Cummings.

1 CHIEF COUNSEL MONAHAN-CUMMINGS: Good morning.

2 (Thereupon an overhead presentation was

3 Presented as follows.

4 CHIEF COUNSEL MONAHAN-CUMMINGS: As you may
5 recall, from a couple meetings ago, there's a somewhat
6 obscure provision of Prop 65 that really doesn't relate to
7 the rest of the law that requires the State's qualified
8 experts to decide whether or not they think a chemical has
9 had sufficient study as required by federal and State law.

10 So what we have done for you, as we have in the
11 past, is we requested information from U.S. EPA and also
12 from the California Department of Pesticide Regulation
13 regarding the chemicals that are currently on that list as
14 not having enough data, and also asking whether or not
15 there should be additional chemicals added to that list.

16 This year, we are actually only asking you to
17 remove chemicals. I believe there's nine chemicals that
18 U.S. EPA has advised us they have the sufficient data in
19 on those now.

20 So essentially all we're asking you to do is
21 advise us to go ahead and update the 27000 list. It's
22 just kind of an anomaly. We'd like to do that ourselves,
23 but we can't, because the statute says you do it.

24 Do you have any questions?

25 CHAIRPERSON BURK: Do you want us to vote?

1 CHIEF COUNSEL MONAHAN-CUMMINGS: Sure. The vote
2 would be whether or not to remove these seven chemicals
3 from the list.

4 CHAIRPERSON BURK: Okay. All those in favor of
5 removing these -- I think it's nine chemicals -- two,
6 four, six, eight -- nine chemicals from the list raise
7 your hand?

8 All those in favor?

9 (Hands raised.)

10 CHIEF COUNSEL MONAHAN-CUMMINGS: Thank you.

11 CHAIRPERSON BURK: I think that's it.

12 All right. Agenda Item number 7, and Cynthia
13 Oshita is coming forward for the first, chemical listings
14 and safe harbor level development.

15 MS. OSHITA: Yes. Okay. Since the Committee met
16 last October, OEHHA has administratively added, by
17 mechanisms that were presented to you in the discussions
18 yesterday, 18 chemicals. Two were listed as known to
19 cause reproductive toxicity, and 16 were listed as known
20 to cause cancer. And a summary table of these additions
21 are in your meeting materials under the staff updates tab.

22 There are yet some other chemicals that are under
23 consideration for administrative listing. And as was
24 mentioned yesterday, we are considering listing methanol
25 and BPA as causing reproductive toxicity. And then we are

1 also considering cocamide diethanolamine, tetraconazole,
2 and kresoxim-methyl as being considered for listing for
3 causing cancer.

4 Methanol is in the notice of intent to list
5 phase. While all the others are in the data call-in
6 phase. Comments have been received on each of these
7 chemicals and they are under review.

8 In addition, OEHHA has announced the proposed
9 administrative listing of yet some other chemicals, which
10 include hydrogen cyanide and cyanide salts, which are
11 under consideration for causing reproductive toxicity.
12 And the public comment period will close on August 3rd,
13 2011.

14 Alpha methylstyrene, which is proposed for
15 listing as causing reproductive toxicity and titanium
16 dioxide is proposed for listing for causing cancer. No
17 comments were received for alpha methylstyrene. And so we
18 expect to include it on the next publication of the
19 Proposition 65 list. Several comments were received for
20 titanium dioxide and those are under review.

21 Also since last October, we have adopted Maximum
22 Allowable Dose Levels, MADLs, for acrylamide and
23 hexavalent chromium. The acrylamide MADL became effective
24 April 29, 2011. And the hexavalent chromium MADL was
25 recently approved by the Office of Administrative Law and

1 will become effective on July 29, 2011.

2 We've also proposed to adopt a MADL for
3 avermectin. No comments were received on the avermectin
4 MADL during the public comment period. And so its
5 rule-making package will be finalized for submission to
6 the Office of Administrative Law for approval in the very
7 near future.

8 And lastly, we've also adopted two No Significant
9 Risk Levels. One was for glycidol, and the other was for
10 2,4,6-trinitrotoluene. And these levels became effective
11 February 25th, 2011.

12 Thank you.

13 CHAIRPERSON BURK: Thank you. Any questions of
14 Cynthia?

15 Well done.

16 Next, we have a staff update on Proposition 65
17 litigation.

18 CHIEF COUNSEL MONAHAN-CUMMINGS: Good morning
19 again.

20 CHAIRPERSON BURK: Carol Monahan-Cummings.

21 CHIEF COUNSEL MONAHAN-CUMMINGS: Just a reminder
22 when Cindy was speaking about any of these chemicals that
23 we talked about as in process, your group is -- or
24 individuals are encouraged to make comments if you feel
25 you should or need to on those listings prior to them

1 being final. So that's what we were talking about
2 yesterday that you do have the ability to provide us
3 input.

4 In terms of the litigation, we had four cases
5 pending till very recently that were against OEHHA or the
6 agency and the Governor as well.

7 One of them was the Chamber of Commerce versus
8 OEHHA. Actually, it's the Chamber of Commerce versus
9 Brown, I'm sorry. And in that case, we were -- the
10 Chamber of Commerce sued to determine whether or not we
11 had the authority to list chemicals under what's called
12 the Labor Code listing mechanism. If you recall from
13 yesterday, I mentioned that, that it -- you know, we list
14 chemicals that are included on other lists, mostly
15 occupational related, either -- that are under federal
16 regulation primarily.

17 And in that case, we were successful at the trial
18 court, and we were also successful at the court of appeal.
19 And the Chamber has decided not to request review from the
20 State Supreme Court, so that case is final now.

21 The other case that's pending in the court of
22 appeal is the case that was brought by the Styrene
23 Information and Research Council, and that has to do again
24 with the Labor Code listings. And they're questioning is
25 more narrow than the one that was decided in Chamber of

1 Commerce case. It has to do with the level of evidence
2 that needs to be available before we can list a chemical.

3 That one has been pending in the court of appeal
4 for over a year, and we have no idea when it's going to be
5 heard.

6 The other older case is the Sierra Club versus
7 Brown. And that was filed in 2007 and still pending in
8 the trial court in Alameda. We've made a little bit of
9 progress in that, in terms of some discovery stuff, but --
10 and we have kind of taken a little hiatus to try and work
11 on settling the case, but haven't made a lot of progress
12 in that regard. Your sister Committee, the CIC, are
13 defendants in that case, along with our office, the
14 Secretary and the Governor.

15 And it has to do with the listings from three of
16 the methods we've talked about, the CIC listings and
17 prioritization, which would include this group, the Labor
18 Code and the authoritative bodies listings. And so those
19 can all -- I mean, those are -- can all kind of touch this
20 group. But for the most part, you guys aren't involved
21 and are fortunately not named in that lawsuit.

22 The last one I wanted to mention is a more recent
23 one where we were -- OEHHA was sued by a number of food
24 industry groups over the recent listing of 4-MEI, which
25 Cindy mentioned to you. It's actually a contaminant in

1 caramel coloring, and is used extensively by the food
2 industry as well as others.

3 And we listed the chemical recently, and then we
4 were immediately sued by this group. There's a hearing
5 here in Sacramento on their lawsuit this Friday -- it's a
6 busy week -- Friday morning. And we'll find out probably
7 shortly thereafter what the decision of the trial court
8 is. It doesn't take very long for the trial court to get
9 through these, because it's basically, you know, you file
10 your briefs, you have an argument, and then they decide.
11 And so depending on the outcome of that, most likely it
12 will go up on appeal.

13 As of this moment, that's all of the cases that
14 we're aware of that are pending against our office. And
15 I'd be happy to answer any questions that you might have.

16 COMMITTEE MEMBER ROBERTS: Carol, what was the
17 name of the last chemical in the lawsuit?

18 CHIEF COUNSEL MONAHAN-CUMMINGS: 4-MEI. It's
19 4-methylimidazole.

20 CHAIRPERSON BURK: Public comment?

21 Jay Murray.

22 DR. MURRAY: Jay Murray. Here on my own behalf.
23 And I just wanted to add one thing to what Carol said,
24 especially since someone asked what the chemical was.
25 4-MEI is formed in a lot of food products. And it's

1 another one of these chemicals like acrylamide that's
2 caused when you heat foods. It's a different set of
3 naturally occurring substances in foods that can do it,
4 but it's in a lot of different foods from -- because its
5 present in certain types of caramel coloring. Caramel
6 coloring is in a lot of foods. It's also probably formed
7 in a number of goods that contain sugar when you heat the
8 sugar.

9 CHAIRPERSON BURK: Thank you.

10 Yes. In addition to staff updates was a
11 discussion about writing the reports, the hazard
12 identification materials. Were you going to talk about
13 that?

14 ACTING DIRECTOR ALEXEEFF: Yeah, I can start.

15 CHAIRPERSON BURK: George Alexeeff.

16 ACTING DIRECTOR ALEXEEFF: Yeah. First of all, I
17 just want to thank the Panel for assisting us over time,
18 in terms of trying to use resources as effectively as
19 possible to provide whatever information might be needed
20 to make a decision to move forward one way or the other.
21 And the prioritization is a good example of that, where it
22 came with a procedure, we did some, and then we came back
23 saying, well, it would be great if we could try a slightly
24 different procedure to balance the resources in terms of
25 epi and toxicology, in terms of our staff resources, and

1 you assisted us on that.

2 We came forward with these chemicals recently,
3 and you gave us some response on that. And over time,
4 we've also been trying to revise or sort of tweak the
5 hazard identification materials, so that the Panel
6 receives the information it needs for a decision, but, you
7 know, sort of also maximizes our resources.

8 So we thought it would be helpful to talk a
9 little bit about preparing the materials and providing
10 them to you, and to us, what might be some additional
11 efficiencies that we could utilize, if you thought it
12 would be okay, let's say, or maybe we could just talk
13 about how that might work.

14 And, in particular, just for example, there were,
15 you know, the chemicals that we just considered now. We
16 will now proceed and look further into the chemicals and
17 probably begin to write-up benzo(a)pyrene or begin the
18 process for benzo(a)pyrene, and maybe one or two of the
19 others.

20 And in that process, we may find out that
21 although it looked like they are a lot of good studies.
22 In the end, maybe there weren't very many good studies, or
23 I think as -- I forget which chemical it was, but there
24 was one chemical where I think it was noted there were a
25 lot of developmental studies. Well, maybe there really

1 aren't any female or male reproductive studies.

2 So the question is how could we expedite
3 preparing the materials so that we don't use resources
4 trying to put together sort of a story that of which
5 there's not much story. So that's -- I thought maybe the
6 staff could talk a little bit about that.

7 DR. DONALD: Okay.

8 (Laughter.)

9 DR. DONALD: I don't have anything prepared for
10 this. So extemporaneous.

11 As I'm sure the Committee members noticed, we did
12 attempt some alterations or some refinements of the way
13 that we presented material in the past for the current
14 chemical that you considered yesterday.

15 We recognize that we often give you a great deal
16 of material to go through in a relatively short period of
17 time. So our concept at this time was to try and create
18 something of a hierarchy of information. We provided
19 summaries, fairly detailed summaries, but summaries
20 nonetheless as the first level of information, summaries
21 that integrated the information rather than summarized the
22 individual studies. The summaries of the individual
23 studies were presented as appendices this time to allow
24 you to go to them as you needed to to understand the
25 information.

1 And then the third level of information, taking
2 advantage of the new technological advances that have
3 occurred. We were able to give you all of the relevant
4 material in electronic form to make it both accessible and
5 hopefully easily searchable.

6 So we also tried to focus this time around a
7 little bit more on the studies that appeared to be most
8 informative, both in terms of the nature of their design,
9 and the study outcome, the quality of the studies. Of
10 course, there was a certain group subjectivity in that.
11 And it's not our intent to bias the Committee in any way.
12 We simply want to make the information as clear and
13 accessible to you as we can.

14 But one thing we did, as we've always done in the
15 past, is tried to be comprehensive in the material we
16 provided. So one issue George is raising is for sulfur
17 dioxide it was clear that the information on female
18 reproductive toxicity was far less extensive than the
19 information on other endpoints. And one question would be
20 in the future if -- would you want to employ some sort of
21 cut-off where the extent of information on a particular
22 endpoint is below that cutoff, we wouldn't present that
23 information at all. And if that's the case, what would
24 the cutoff be? That would be one question.

25 Conversely, would you prefer us to continue as we

1 do now in trying to provide you with all of the relevant
2 information, and all of the endpoints? And if so, is
3 there a better way for us to do that, a way that would be
4 more useful to you and more efficient for you?

5 DR. ZEISE: And just to add a little bit to that,
6 I guess in addition to a cutoff, staff could use their
7 judgment in looking at the evidence. And if it just
8 didn't seem to quite be there, as we began the review, we
9 wouldn't necessarily write-up all of those studies and
10 cover that endpoint. That would be another option.

11 CHAIRPERSON BURK: I think I could see where
12 there's, you know, one study on female, you could put the
13 abstract, like we have. You could potentially have it on
14 a CD, but not spend a lot of time bothering to, you know,
15 analyze it or describe -- I don't know. You know, that
16 would be fine with me, but I'm kind of curious how the
17 others feel.

18 DR. DONALD: If I could just add one more point
19 though. Your own criteria state that in some
20 circumstances one study may be sufficient for listing.

21 CHAIRPERSON BURK: I know. That's why I wouldn't
22 want you to skip it all together. That's why I would want
23 there to be something there, so that we know, at least,
24 that there are studies.

25 But if it were something, you know, where it was

1 one study and it was say a mixture that you couldn't
2 figure out the contribution of the chemical of interest,
3 it would be worth seeing it there, because it might fit
4 into the big picture. But I don't think you would spend a
5 lot of time, you know, giving us all the details. I don't
6 know though. That's a tough one. That's a tough one to
7 a. --

8 COMMITTEE MEMBER KLONOFF-COHEN: I just wanted to
9 say that I thought that this time particularly everybody
10 did an amazing job in terms of the review. There were
11 just so many studies. I thought it was really
12 comprehensive, really -- I loved the tables and how you
13 could get into the details of the studies. I really
14 thought it was great.

15 So I guess my own -- I had a question in terms of
16 is it because of the fact that in terms of just -- there's
17 just so many hours in the day, it just would be easier and
18 more efficient to make that decision? Because for me for
19 the sulfur dioxide it was great to actually see the whole
20 realm in terms if you're male and female and developmental
21 and how that study or that area actually, you know, didn't
22 necessarily have information at this time, so -- but is it
23 more of a time issue or --

24 DR. DONALD: That's certainly a component. You
25 know, we'd like the Committee to be able to consider as

1 many important chemicals as possible in any given time
2 frame. The more time that and resources it takes us to
3 prepare the materials, then obviously the fewer chemicals
4 we can bring before you.

5 So there's sort of a balance. We want to keep
6 feeding you relevant information, but we don't want to
7 spend a lot of time preparing information that ultimately
8 doesn't contribute to the listing decision.

9 COMMITTEE MEMBER KEEN: Just a modest concern I
10 would have though, is sometimes, yes, there may be a very
11 limited base of information, and it may not be
12 overwhelmingly convincing, but it may be critical when it
13 comes to considering biological plausibility.

14 If I had to find a fault, I think we have spent
15 actually very little time on what is probably one of the
16 most essential of the Hill criteria, that there needs to
17 be not just a lot of associations and fingers pointing the
18 right direction, but there's supposed to be biological
19 plausibility.

20 And often times I think we're not giving a whole
21 lot of attention to that. So I think if the decision is
22 made, which would be appropriate if you look at a paper
23 and say, well, there really -- it doesn't have much
24 substance here, it could have -- it could be lacking
25 controls. We could come up with multiple reasons, where

1 you're not going to weigh the data too closely, but if it
2 argues against the mechanisms, which are potentially we're
3 seizing on for another form of toxicity, I think it's
4 important that we're alerted to that.

5 And maybe just even having the very -- the
6 reference they're saying, not included because of lack of
7 control or something of that nature. But that would be my
8 biggest concern. We all know that there is a publication
9 bias. And the publication bias is for finding somebody
10 positive, in the case of reproductive toxicants, negative.
11 And it's those neutral papers which tend not to surface.

12 And yet, if they're testing at what -- you know,
13 again the plausibility issue, they become quite important
14 for other reasons. So I just would urge the obvious
15 caution about that.

16 COMMITTEE MEMBER GOLD: So I'd be a little bit
17 nervous about a cutoff, that implies to me that -- like if
18 there were only one or two studies, that you would want to
19 have a certain critical mass of studies. But to me, if
20 you have one really good study, I would like that to be
21 included.

22 And some of the things in your potential list,
23 not the ones that we talked about today, might even have,
24 for example, a clinical trial, which, you know, we regard
25 as sort of the highest quality study you could have. So

1 for example -- well, and I won't give examples, but that
2 might happen.

3 And if there were a large enough clinical trial
4 that was well conducted, even though it was only one
5 study, I'd like to see it. So I would be hesitant to make
6 a cutoff.

7 DR. DONALD: So it sounds like there's a
8 sentiment among the Committee that we should continue to
9 be comprehensive in what we include, but perhaps adjust
10 the amount of information we provide based on the value
11 that we think it would have to the Committee. So we might
12 identify studies, and as Dr. Keen suggests, perhaps give a
13 very brief reason for why they weren't discussed in
14 detail, but still provide the study itself to the
15 Committee, so that if you had an interest in it, you would
16 have the opportunity to read the entire materials.

17 COMMITTEE MEMBER ROBERTS: Yeah. Obviously, it
18 didn't apply to me this time around, but I really like the
19 idea of having the actual original papers provided in
20 electronic form, because I like to go back to those. And
21 the fact that they're in electronic form saves a lot of
22 paper and lugging around to the meetings.

23 From what I understand, it's not that the one
24 really good paper publication report or study wouldn't
25 necessarily rise to the above. It's where you may have

1 very few studies or very small groups sizes, very poor
2 characterization of -- you know, the sorts of things that
3 we have discussed up here that would sort of drop down
4 maybe confidence level it.

5 I guess what I'd say is that the organizations
6 that might be more pro-listing would -- if you minimize --
7 if you put something together that does not go into the
8 same comprehensive depth as the other portions, say if it
9 was female repro and the developmental and the male are
10 very comprehensive, and say, as an example, the female was
11 not, that organizations that might be concerned that that
12 would be overlooked would need to have an opportunity to
13 put together a more comprehensive set of comments.

14 But I would think, since you come out with these
15 months in advance of our meeting, that that would provide
16 that opportunity, wouldn't it?

17 DR. DONALD: Yes. One thing we would encourage
18 the Committee members to do is once you've seen the
19 materials and had a chance to look at them, please feel
20 free to contact us individually. I know we can't have
21 serial meetings, but individual members are welcome to
22 contact us. In fact, we encourage you to contact us with
23 any questions you have, particularly in advance of the
24 meeting, because sometimes, you know, if a complex
25 question comes up at the meeting, it's difficult for us to

1 give you a complete answer. But if we have some notice,
2 we can research the question and provide whatever
3 information you need, either in advance of the meeting or
4 at the meeting.

5 Dr. Kaufman was one of the principal authors of
6 the sulfur dioxide document, and actually came up with
7 several of the ideas that were incorporated into the
8 document. So she can describe how we've already -- or how
9 we thought we'd already taken some steps in the direction
10 we're talking about today to try and sort of -- not
11 exactly create the hierarchy of the material, but trying,
12 and help identify what we thought was the most useful
13 information for you.

14 DR. KAUFMAN: So we would really appreciate
15 feedback on that, as Dr. Donald said, about the format of
16 the HIMs. And sulfur dioxide was such a huge body of
17 literature, that when we approached it, we tried to
18 reformat it, so that as he mentioned earlier, it kind of
19 was a hierarchy where there were tables that were
20 incorporated in this HIM to give you an overview, almost a
21 roadmap of the studies in that endpoint.

22 And along with it, there were summaries of that
23 endpoint early on. And those were related to the actual
24 more extensive study summaries that we included in the
25 appendices, and as well we gave you the articles on CD.

1 Thank for, Linda, for noting that was very useful
2 to you. It's good feedback for us.

3 So when we wrote them up, all the study
4 summaries, the study designs varied extensively, and there
5 were, you know, much better design cohort studies and more
6 reliable. And there were also ecologic studies. So we
7 focused more of the -- more extensive summaries of the
8 study designs that are -- instill more confidence.

9 The ecologic studies, for instance, we didn't
10 write extensive summaries. And in some cases, we just
11 mentioned briefly in a paragraph what they were about, and
12 just left it at that, because they are not that
13 informative.

14 So that's how we tried to incorporate the
15 information in a very -- in a more digestible manner and
16 tiered. So if there's any comments you have about one
17 part or the other or if there's a better way to do it,
18 if -- anything that you can give us guidance on would be
19 appreciated.

20 COMMITTEE MEMBER KLONOFF-COHEN: I appreciated
21 the table, because I usually make tables. That would have
22 just taken hours and hours for this topic, so that was
23 really helpful. But overall, just all of the different
24 hierarchy of how you set it up, I just thought it was
25 really great.

1 COMMITTEE MEMBER WHITE-PORTER: I'd agree. I
2 thought the format was wonderful. I'm reading documents
3 from physicians all day long. I'm reading, reading,
4 reading all day, and the format really was easier for me
5 to organize, very easy to work through. I liked the -- I
6 loved the appendices. I highlighted. I knew where to
7 find information on the abstract if I needed to read the
8 document further. I loved it. It was great for me.

9 Thank you.

10 CHAIRPERSON BURK: I agree. I loved those
11 tables. You know, I think bottom line, your judgment on
12 how to approach it is fine, as long as the actual articles
13 are all mentioned and all given to us electronically. I
14 realize you don't want to make great judgment calls, but
15 you know, if there's something that doesn't have much
16 information, it's not worth writing up a whole page
17 summary of it. So I would support you using your judgment
18 on that, and us too.

19 COMMITTEE MEMBER KEEN: Just a quick request. I
20 don't know if you could do this due to copyright issues or
21 not, but if along with that CD, there is actually a
22 hyperlink so there was on-line access, I would be one very
23 happy person, because many of us travel around a lot
24 today. We no longer carry disc drives with us. I
25 certainly don't. And so if you just happen to be at, you

1 know, some red carpet club, and you decide to do some
2 homework, that's the way it's being done, just like going
3 to PubMed. So as long as you can do it, I think you'd
4 find it used by a lot more people.

5 DR. DONALD: Yeah. We will certainly include
6 those as far as we can in future documents.

7 COMMITTEE MEMBER KEEN: Thank you.

8 DR. ZEISE: Another way around that issue is to
9 provide thumb drives. So that might be another
10 possibility, so I just throw that out as a possibility.

11 COMMITTEE MEMBER KEEN: I think that is an
12 excellent idea. My only comment would be there's a little
13 more fluidity if you're putting them directly on-line
14 access, because you could have materials that then you can
15 be updating, in theory.

16 ACTING DIRECTOR ALEXEEFF: I'm not sure what's
17 possible with our IT folks. But I know that, for example,
18 just like when you're reviewing a publication for a
19 journal, there's a confidential site you can go to. So
20 with that -- was that the kind of thing you're also
21 talking about if -- I don't know if we would be able to
22 create a specific site that you would have access to for
23 those materials, if there is a copyright issue.

24 COMMITTEE MEMBER KEEN: That's precisely what I
25 was thinking. Something like the PubMed is a good

1 example, where if you're on your home campus where they
2 have journal subscriptions, you can directly access it,
3 but if you're at home, you can't directly access it.

4 So it does need -- and that's why I was careful
5 to say, if you can do this, because there would have to be
6 some agreements probably with documents download, I think,
7 but it would -- I just think it would be very helpful, and
8 it would make it easier for a lot of people and would save
9 paper.

10 DR. DONALD: Yeah. So one possibility might be
11 if we could create a password protected page on our
12 website where we posted all the PDFs from a document and
13 provided the password to the Committee. We can look into
14 options like that.

15 DR. ZEISE: Yeah. Just getting back to one other
16 question around the appendices. So it seems as if they
17 were very useful. Now, for some of the studies, they
18 don't carry much -- the studies that don't carry much
19 weight, it might be a staff savings to actually put in the
20 author's abstract and note it as such. Is that something
21 that would be agreeable to the Committee, in cases where
22 it didn't appear necessary to go through and discuss at
23 length the particular studies, just because of quality
24 issues and so forth?

25 CHAIRPERSON BURK: I think it is, as long as you

1 have the actual document.

2 DR. ZEISE: Right. You would have the article
3 itself.

4 CHAIRPERSON BURK: Then we can make our own
5 judgment as to whether we want to read it or not.

6 DR. ZEISE: Yes.

7 CHAIRPERSON BURK: And that would save you a lot
8 of time, just take the abstract out which, you know -- and
9 then we can make that decision.

10 DR. ZEISE: Great. Thanks.

11 CHAIRPERSON BURK: I don't know. That seems fine
12 to me. The information is there, but you're not spending
13 lot of time trying to digest it for us, when it's not
14 necessary.

15 Public comment on this?

16 DR. LAWYER: So this way you get two-thirds of
17 the public to comment in one day. It's Dr. Artie Lawyer
18 from Technology Sciences Group in Davis, California.

19 A comment and a question, while we're on this
20 subject. I couldn't help thinking of this matter in the
21 audience. First, the comment on sulfur dioxide, I totally
22 agree with the Committee. That was a great report and
23 it's an amazing thing that these -- that the staff put
24 out, given their resources and such. And I, in fact, was
25 struck, and I told them yesterday, about the quality of

1 the presentations that was given to the Committee. I
2 thought that was just wonderful.

3 But it was an interesting session, because there
4 was no public comments on the other side of the issue.
5 And that's what I found myself thinking about in this
6 debate. It's really a question to the Committee.
7 Though -- I'm sure I've been associated with a couple
8 dozen of those, the industry documents that you get before
9 a meeting in the last 30 days, to try to add to what OEHHA
10 has done. I know Jay Murray behind me is I'm sure the
11 winner in being involved in most of these.

12 But I know we always struggle with trying to get
13 you the right balance between not giving you too much, not
14 being redundant with the quality that you've already
15 received. And I'm just wondering if you have advice for
16 those of us in the public to try to give you an
17 appropriate balance in the documents we give you.

18 Because I tell you, we always struggle with it.
19 The only thing I'll add is all our clients are different,
20 just like the chemicals we consider. And so sometimes
21 they go along with our suggestions and sometimes not.

22 But nonetheless, if while you're thinking about
23 the quality that you're asking of OEHHA staff, I'm
24 wondering if you have any advice for, at least the three
25 of us that have remained for the second day.

1 Thank you.

2 COMMITTEE MEMBER KEEN: I have to say, I was
3 quite surprised at the minimal public comment yesterday,
4 particularly given the fact that one of the documents was
5 quite exhaustive and really quite thorough, and I thought
6 very well done.

7 I personally find them a useful counterbalance to
8 the documents that we get from OEHHA. I think it's
9 important to have, if people feel strongly, gee I think
10 this case is way -- is ignoring these points. Then I
11 think that that is a role that the public actually should
12 be playing.

13 So I, for one, would say, if anything, it
14 wouldn't bother me one iota to see twice as much material
15 there, as long as it's documented and it's not about
16 passion, but it's about science. And you can literally
17 take the public comments and put them in those two piles
18 sometimes. So I would applaud continued authoritative
19 comments from the public personally.

20 COMMITTEE MEMBER ROBERTS: Yeah. I'd sort of
21 echo that, any comments that we get that are based upon
22 scientific interpretation and give references that can go
23 back and people can look at. That's all very helpful.
24 What doesn't tend to be really helpful to me is if I have
25 page after page of a business impact. A little bit of

1 business impact is good to understand, but I don't have
2 any expertise there.

3 CHAIRPERSON BURK: Okay. Any other comments?

4 I'm going to go to the last agenda item, number
5 8, Summary of Committee Actions.

6 George.

7 ACTING DIRECTOR ALEXEEFF: George Alexeeff here.

8 Okay. Well, I think the Committee considered and
9 undertook a number of actions these past two days. And I
10 think it was appropriate to have a two-day meeting. So I
11 appreciate you being here both days.

12 So, first, the Committee considered whether
13 sulfur dioxide should be designated as a chemical known to
14 the State to cause reproductive toxicity. And the
15 Committee did decide to consider it a chemical known to
16 the State to toxicity -- known to the State to cause
17 reproductive toxicity.

18 Specifically, there was a vote of five yes and
19 zero no with regards to listing it as a chemical known to
20 cause reproductive toxicity with specific reference to
21 developmental toxicity.

22 The Committee concluded that sulfur dioxide was
23 clearly shown through scientific valid testing, according
24 to generally accepted principles to cause developmental
25 toxicity.

1 With regards to female toxicity, the Committee
2 concluded as a vote of zero to five that it was not
3 clearly shown. And with regards to male reproductive
4 toxicity, the Committee voted three yes and two no, with
5 regards to whether it was scientifically valid -- was
6 clearly shown through scientifically valid testing through
7 generally accepted principles to cause male reproductive
8 toxicity. And based upon that vote, that endpoint will
9 not be designated as part of the listing.

10 Regarding the consideration of the petition filed
11 on August 5th, 2010 on behalf of the Polycarbonate BPA
12 Global Group of the American Chemistry Council to
13 reconsider the designation of NTP CERHR as an
14 authoritative body for the purposes of identifying
15 reproductive toxicants, first, the Committee voted six to
16 zero to hear the petition.

17 After hearing the petition, a presentation from
18 the National Toxicology Program, public comments, and
19 Committee discussion, the Committee voted not to consider
20 de-designating NTP CERHR as an authoritative body. And
21 the vote was zero yes and five no with one recusal to
22 de-designate NTP CERHR.

23 The Committee then voted to wait to consider
24 designating the NTP Office of Health Assessment and
25 Translation as an authoritative body. And the vote on

1 that motion was six yes and zero no to wait on revising
2 the NTP designation.

3 Regarding prioritization of chemicals for future
4 Developmental and Reproductive Toxicant Identification
5 Committee review, the Committee recommended that OEHHA
6 proceed with the five chemicals proposed benzo(a)pyrene,
7 deltamethrin, methyl parathion, uranium, and xylene, and
8 providing us some sense that benzo(a)pyrene appeared to be
9 the most important one to prioritize with the others with
10 less importance.

11 And finally, the Committee also considered
12 removing nine chemicals from the list of chemicals that
13 have not been adequately tested as required. And the vote
14 was six to zero in favor of removing the nine chemicals
15 from the list. And I'll just read them for the record,
16 4-T-amyphenol, aquashade, benzisothiazolin-3-one,
17 ethoxyquin, irgasan, magnesium phosphide, niclosamide,
18 spinetoram, and sulfometuron-methyl.

19 So I think that those were the official actions
20 taken by the Committee, unless I've missed something.

21 All right. I want to again thank the Committee
22 for taking valuable time out of their schedule to serve
23 the State and provide the State advice and to assist us in
24 this reproductive toxicity issue or all the issues under
25 this topic. And I thank Dr. Burk for chairing the

1 Committee and dealing with a lot of, you know, different
2 types of issues this time and being able to move us along
3 and keep us focused, and being responsive to the public
4 concerns before about timeliness of comments and things
5 like that.

6 And I also want to thank all the Committee
7 members for their assistance in considering -- excuse me,
8 in considering the documents -- and I felt like I was
9 always looking over here, so I figure I should look over
10 here.

11 (Laughter.)

12 ACTING DIRECTOR ALEXEEFF: I was not ignoring
13 this side -- in considering documents and providing
14 thoughtful comments. And I really thought the discussion
15 on sulfur dioxide as well as the other chemicals were very
16 interesting, thorough, productive, and thoughtful. And I
17 appreciate all of that. And I think it shows a good
18 record of decision for this meeting.

19 So I want to thank you again.

20 Oh, did I forget to thank the staff?

21 (Laughter.)

22 ACTING DIRECTOR ALEXEEFF: Yeah. The ones once I
23 have to go see after this meeting.

24 (Laughter.)

25 ACTING DIRECTOR ALEXEEFF: I do want to thank the

1 Counsel, Carol, for giving us advice during the meeting.
2 She had quite a few presentations to make and
3 clarifications and answer questions. I really want to
4 thank that.

5 And I want to thank all of the staff for the
6 presentations, Dr. Zeise and Dr. Donald, Dr. Kaufman, plus
7 the entourage, some of which are behind there, that helped
8 assisting and preparing the documents and the
9 presentations yesterday. And I'm glad that you thought
10 the documents were well done and the presentations were
11 well done. And I definitely thought so as well. So I
12 also want to thank the members of the public that
13 participated with us yesterday and today, and on the
14 webcast I presume there's some as well.

15 Thank you.

16 CHAIRPERSON BURK: All right. I echo all those
17 thank yous. And the meeting is adjourned. Safe trip
18 home.

19 (Thereupon the Developmental and
20 Reproductive Toxicant Identification
21 Committee adjourned at 10:19 a.m.)
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CERTIFICATE OF REPORTER

I, JAMES F. PETERS, a Certified Shorthand Reporter of the State of California, and Registered Professional Reporter, do hereby certify:

That I am a disinterested person herein; that the foregoing California Office of Environmental Health Hazard Assessment, Developmental and Reproductive Toxicant Identification Committee was reported in shorthand by me, James F. Peters, a Certified Shorthand Reporter of the State of California, and thereafter transcribed under my direction, by computer-assisted transcription.

I further certify that I am not of counsel or attorney for any of the parties to said workshop nor in any way interested in the outcome of said workshop.

IN WITNESS WHEREOF, I have hereunto set my hand this 18th day of July, 2011.

 JAMES F. PETERS, CSR, RPR
 Certified Shorthand Reporter
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