

MEETING
STATE OF CALIFORNIA
AIR RESOURCES BOARD

JOE SERNA, JR. BUILDING
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
BYRON SHER AUDITORIUM, SECOND FLOOR
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9:00 A.M.

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BOARD MEMBERS

Ms. Mary Nichols, Chairperson

Ms. Sandra Berg

Ms. Dorene D'Adamo

Mr. Hector De La Torre

Mr. Ronald Loveridge

Mrs. Barbara Riordan

Supervisor Roberts

Dr. Alex Sherriffs

Professor Daniel Sperling

Supervisor Ken Yeager

STAFF

Mr. James Goldstene, Executive Officer

Mr. Tom Cackette, Chief Deputy Executive Officer

Mr. Richard Corey, Deputy Executive Officer

Ms. Ellen Peter, Chief Counsel

Ms. Lynn Terry, Deputy Executive Officer

Ms. Analisa Bevan, Chief, Sustainable Transportation
Technology Branch, MSCD

Mr. David Edwards, Manager, Climate Change Reporting
Section, PTSD

APPEARANCES CONTINUED

ALSO PRESENT

Mr. Rick Alvez

Mr. Craig Anderson, Solar Turbines

Ms. Jasmin Ansar, Union of Concerned Scientists

Mr. Sean Jason Baggett, Academia Resource Services

Mr. Randy Balik, Beacon Energy Services

Mr. Will Barrett, American Lung Association

Mr. Nicholas Basiltreri, University of California

Ms. Lori Bateman

Mr. Andrew Barrera, LA Metropolitan Hispanic Chamber of
Commerce

Ms. Lisa Bowman, Phillips 66 USW

Mr. James Brady, 100 Black Men

Mr. Tim Bushnell

Mr. Julian Canete, California Hispanic Chamber of Commerce

Mr. Frank Caponi, LA County Sanitation District

Mr. Tim Carmichael

Mr. Henry Casas, Soledad Enrichment Action

Mr. Chris Chandler, Phillips 66 USW

Ms. Brenda Coleman, California Chamber of Commerce

Mr. Will Colon, KM Industrial

Mr. Jesse Cuevas, Assemblymember Perea

APPEARANCES CONTINUED

ALSO PRESENT

Mr. Jose Duenas, Alameda County Hispanic Chamber of Commerce

Ms. Catherine Dunwoody, Executive Director, California Fuel Cell Partnership

Mr. Eric Eisenhammer, Coalition of Energy Users

Ms. Kristi Foy, City of Long Beach

Mr. Jim Frassetto

Mr. Bill Gamba, Phillips 66 USW

Ms. Cassie Gilson, Air Liquide

Ms. Cassandra Gough, Calpine

Mr. Larry Goulder

Ms. Morgan Hagerty, CE2 Carbon Capital

Mr. Tim Haines, State Water Contractors

Mr. Jeff Hall, Phillips 66 USW

Mr. Frank Harris, Southern California Edison

Mr. Dan Hoffman, Wilmington Chamber

Ms. Lisa Hoyos, Blue Green Alliance

Mr. Jason Ikerd, Qualcomm

Mr. Alex Jackson, NRDC

Mr. Tom Jacob, Chemical Industry Council

Mr. Dan Jacobson, Environment California

Mr. Michael Kafka, Arizona Public Services Company

APPEARANCES CONTINUED

ALSO PRESENT

Mr. Mark Krausse, PG&E

Mr. Weston LaBarr, Long Beach Chamber of Commerce

Mr. Nick Lapis, Californians Against Waste

Mr. Edwin Lombard

Ms. Marlia Maples, TJM Distribution, Inc.

Mr. Paul Mason, Pacific Forest Trust

Ms. Nicole Mazur, VICA

Mr. Charles McIntyre, West Coast Protective League

Ms. Erica Morehouse, Environmental Defense Fund

Ms. Belinda Morris, American Carbon Registry

Mr. Steve Mota, Phillips 66 USW

Mr. Phillip Newell, Gardian Industries, Corp.

Mr. Craig Parker, CalEnergy Operating Corporation

Ms. Michelle Passero, The Nature Conservancy

Mr. Ken Payne, Sacramento County Taxpayers League

Mr. Norman Pedersen, Southern California Public Power Authority

Mr. Pat Perez, California Energy Commission

Ms. Kathryn Phillips, Sierra Club California

Mr. Bruce Ray, Johns Manville

Ms. Cathy Reheis Boyd, WSPA

APPEARANCES CONTINUED

ALSO PRESENT

Mr. Leonard Robinson, California Black Chamber of Commerce

Mr. Mike Robson, Glass Packaging Institute

Ms. Dorothy Rothrock, CMTA

Mr. Joshua Stark, Transform

Ms. Beth Vaughan, California Cogeneration Council

Mr. Erick Verduzco-Vega, South Bay Latino Chamber of
Commerce

Mr. Peter Weiner, Paul Hastings, LLP

Ms. Diane Whittenberg, Executive Director, Plug-In
Electric Vehicle Collaborative

Ms. Monica Wilson, GAIA

Mr. Matt Winefiled, Alta Environmental

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PROCEEDINGS

1
2 CHAIRPERSON NICHOLS: Good morning, ladies and
3 gentlemen. I counted in the back, and I know we have a
4 quorum. And it will be a couple of people who are still
5 watching in the back room, but we're going to get started
6 because we have a full agenda today.

7 I want to welcome you all to the September 20,
8 2012, public meeting of the Air Resources Board.

9 And we will begin our meeting with the Pledge of
10 Allegiance to the flag.

11 (Thereupon the Pledge of Allegiance was
12 Recited in unison.)

13 CHAIRPERSON NICHOLS: The Clerk will please call
14 the roll.

15 BOARD CLERK MORENCY: Dr. Balmes?

16 Ms. Berg?

17 BOARD MEMBER BERG: Here.

18 BOARD CLERK MORENCY: Ms. D'Adamo?

19 Mr. De La Torre?

20 Mayor Loveridge?

21 Mrs. Riordan?

22 BOARD MEMBER RIORDAN: Here.

23 BOARD CLERK MORENCY: Supervisor Roberts?

24 Dr. Sherriffs?

25 BOARD MEMBER SHERRIFFS: Here.

1 BOARD CLERK MORENCY: Professor Sperling?

2 BOARD MEMBER SPERLING: Here.

3 BOARD CLERK MORENCY: Supervisor Yeager?

4 BOARD MEMBER YEAGER: Here.

5 BOARD CLERK MORENCY: Chairman Nichols?

6 CHAIRPERSON NICHOLS: Here.

7 BOARD CLERK MORENCY: Madam Chairman, we have a
8 quorum.

9 CHAIRPERSON NICHOLS: Thank you. Just a couple
10 of announcements before we get started.

11 First of all, if you didn't see it posted on the
12 website or get the news in some other way, we have had a
13 change in our agenda order. We're going to be beginning
14 with our regulatory agenda item, which is Number 2. Then
15 we're going to hear Agenda Item Number 3, which is the
16 report on zero emission vehicles. And then we're going to
17 move to the largest -- the item that I know is going to
18 attract the largest number of comments, which is listed in
19 the original agenda as number one, which is our update on
20 AB 32.

21 Anybody who wishes to testify and has not signed
22 up online should fill out a request to speak card. These
23 are available at the back of the lobby outside the
24 boardroom. And we really appreciate it if you can turn it
25 in as soon as possible because that way we can put a list

1 together and see where we are.

2 The lists look like that. They'll be posted so
3 that if you need to get up, you can see there's several
4 other people in front of you, you know you're safe. But
5 you also know if your turn is coming and when it is, we
6 really appreciate it if you are there and ready to go so
7 we don't have to keep shuffling the order.

8 If you have signed up online, you don't have to
9 fill out another card. But you do need to check in with
10 the Clerk of the Board.

11 And as is usual with these meetings, we do impose
12 a three-minute time limit on speakers. And you can say a
13 lot if you don't spend time reintroducing yourself. You
14 don't have to do that. But just get straight to your main
15 point. And if you have written testimony, it will be
16 given to the Clerk, and the Board members will get copies
17 of it. So we will all have a chance to know what you had
18 to say.

19 The other thing I need to point out is that there
20 are emergency exits at the rear of the room and on either
21 side of the podium. If an alarm rings, and it has
22 happened, as a fire drill at least, we're required to
23 evacuate the building immediately and to go downstairs and
24 out of the building and assemble in the park until the
25 all-clear signal is given.

1 I think that's it as far as official
2 announcements is concerned.

3 If I'm right of about that, we can move directly
4 to the first item on the agenda, which is proposed
5 amendments to the greenhouse gas mandatory reporting
6 regulation. These amendments are done primarily to
7 continue the process of trying to harmonize our program as
8 closely as possible with U.S. EPA's reporting requirements
9 so as to minimize any duplication that businesses would be
10 subject to. It's also something that I think is of great
11 interest in terms of how to regulations are going to be
12 enforced as well.

13 I do want to make sure that the people who are
14 here to comments on other aspects other than just
15 reporting understand that this is just a regulatory item
16 and focused on the reporting piece. So if you're here to
17 discuss anything else in connection with AB 32, you're
18 free to take a break, because that item won't come up
19 until 11:00. Okay.

20 Mr. Goldstene, would you please introduce this
21 item.

22 EXECUTIVE OFFICER GOLDSTONE: Thank you, Chairman
23 Nichols.

24 ARB's greenhouse gas reporting regulation was
25 amended by the Board in 2010 to harmonize with the US

1 EPA's reporting rule. These amendments became effective
2 on January 1st of this year. After the Board acted to
3 make the ARB regulations consistent with the federal
4 regulation, U.S. EPA made changes to its regulations that
5 effects some calculation methods.

6 Today's proposed amendments will largely
7 harmonize with the U.S. EPA's with the current rule.

8 David Edward, who's our manager from the Climate
9 Change Reporting Section, will provide the staff
10 presentation.

11 (Thereupon an overhead presentation was
12 presented as follows.)

13 CLIMATE CHANGE REPORTING SECTION MANAGER EDWARDS:
14 Good morning, Chairman Nichols and members of the Board.

15 This Board Item is to discuss staff's proposed
16 amendments to ARB's regulation for the mandatory reporting
17 of greenhouse gas emissions, as well as amendments to the
18 commonly-used definitions across mandatory reporting, the
19 AB 32 cost of implementation fee regulation, and the cap
20 and trade regulation.

21 --o0o--

22 CLIMATE CHANGE REPORTING SECTION MANAGER EDWARDS:
23 Today, we are proposing relatively minor but necessary
24 amendments to the mandatory reporting regulation.

25 These updates will further harmonize with U.S.

1 EPA's greenhouse gas reporting goal. Amendments will also
2 conform with definitions with the cap and trade regulation
3 and AB 32 fee regulation so that terminology used is
4 consistent.

5 In addition, other requirement clarifications
6 were made to support AB 32 programs. Other changes
7 include requirements for additional products and process
8 data reporting in some sectors, which are necessary for
9 the Cap and Trade Program.

10 --o0o--

11 CLIMATE CHANGE REPORTING SECTION MANAGER EDWARDS:

12 Let me quickly give you some background on the mandatory
13 reporting regulation.

14 Mandatory reporting is a direct result of AB 32
15 mandates, which became effective in January 2007. The
16 mandatory reporting regulation was first approved by this
17 Board in December 2007. Annual reporting began in January
18 2009.

19 Amendments approved by the Board in 2010 were
20 meant to harmonize with U.S. EPA's first reporting rule
21 and support the data needs of the Cap and Trade Program.
22 We now have emissions data for the years 2008, '09, '10,
23 and 2011.

24 --o0o--

25 CLIMATE CHANGE REPORTING SECTION MANAGER EDWARDS:

1 conforming definition changes to the AB 32 cost of
2 implementation fee regulation and the cap and trade
3 regulation.

4 Thank you for your time today. I'd be happy to
5 answer any questions you may have.

6 CHAIRPERSON NICHOLS: Seeing no immediate
7 questions from the Board, why don't we turn to the
8 speakers. I can't read that. It's way too faint for me
9 eyes. I don't know if there is any questions we can
10 darken up the -- thank you.

11 I'll just begin reading the list. So our first
12 witness is Cathy Reheis-Boyd followed by Craig Parker.

13 MS. REHEIS-BOYD: Good morning. My name is Cathy
14 Reheis-Boyd. I'm President of the Western States
15 Petroleum Association.

16 I want to thank you for the opportunity to
17 comment on this item. Our companies, as you know, have
18 been very involved in this from the inception on the MMR
19 issue. We've worked very closely with your staff on a lot
20 of complex issues. This is obviously a continuing
21 process. We started early. We'll be working on it
22 through 2013.

23 There are lots of issues still unresolved. We
24 submitted more formal comments to you today
25 electronically. And this gets to meshing the Cap and

1 Trade Program with the MMR reporting requirements.

2 We worked very well with Richard Bode and Edie
3 Chang on this over the past multiple months. It's been a
4 productive dialogue and we've focused in on the
5 flexibility needed to our companies to make sure we have
6 field accuracy and calibration assessments that work for
7 us.

8 A lot to do to still harmonize those. We have
9 issues around accuracy and data reporting that are in our
10 written comments. We look forward to the 15-day packet.
11 And I thank you for your time on this item. I will be
12 testifying on the third item where I will have a few more
13 serious concerns.

14 CHAIRPERSON NICHOLS: Cathy, while you're up
15 there, I'll start this question with you.

16 I got a letter last night which was submitted to
17 the Board from CCEEB, which laid out a number of issues
18 that they were hoping would lead to guidance from the
19 Board. They're, I think, looking for us to issue a formal
20 kind of enforcement guidance type document. Is that
21 something that you're endorsing as well? I just am trying
22 to think ahead to what we will be doing next on this
23 issue.

24 MS. REHEIS-BOYD: Yes. I think we're working
25 with CCEEB on the enforcement guidance document and we

1 would look forward to engaging in that discussion going
2 forward.

3 CHAIRPERSON NICHOLS: Okay. Thank you.
4 Craig Parker and then Frank Harris.

5 MR. PARKER: Good morning, Chairman Nichols and
6 the Board.

7 My name is Craig Parker. I'm Director of
8 Environmental Services at CalEnergy Operating Corporation,
9 7030 Gentry Road in Calipatria California. Thank you for
10 the opportunity to speak with you regarding the CalEnergy
11 comments that we submitted yesterday on the mandatory
12 reporting of greenhouse gas emissions AB 32.

13 CalEnergy owns and operates four geothermal
14 facilities, producing approximately 340 megawatts of
15 electricity in the Imperial Valley of California.
16 CalEnergy geothermal facilities top the Salton Sea known
17 geothermal resource area. This resource is known for
18 having extremely productive wells, producing high
19 temperature, high pressure, high salinity, brine and the
20 wells routinely produce over a million pounds of brine an
21 hour. The reservoir temperature can exceed 600 degrees
22 Fahrenheit. The salinity is 220,000 parts per million,
23 which is -- of total dissolved solids, which is seven
24 times that of sea water.

25 Geothermal resources are considered to be one of

1 the largest liquid dominated reservoirs in the world, with
2 approximately 2,000 megawatts of potential capacity. Over
3 the past 40 years, CalEnergy and its predecessors have
4 concluded that the most effective and environmentally
5 friendly -- that is, extremely low water usage -- way to
6 harness this energy is using the geothermal flash
7 technology. However, due to the high temperatures and
8 two-phase flow of the brine and steam out of the wells,
9 it's very difficult to accurately measure and report
10 greenhouse gases.

11 CalEnergy supports the goals of AB 32 and
12 renewable portfolio standard to reduce greenhouse gas
13 emissions and increase renewable energy production.
14 CalEnergy supports the goal of aligning and harmonizing
15 California greenhouse gas with the U.S. EPA regulations
16 and the Western Climate Initiative reporting structure.

17 CalEnergy geothermal production is exempted from
18 greenhouse gas reporting under the U.S. EPA greenhouse gas
19 regulations. However, the ARB regulations require
20 geothermal energy to report greenhouse gas emissions.
21 Greenhouse gas emissions from geothermal are exempt from
22 the cap and trade regulations.

23 CalEnergy believes the current independent
24 verification increases the cost for geothermal energy
25 production without a corresponding benefit. That is,

1 previous ARB regulations required independent verification
2 of geothermal gas emissions every three years.

3 The initial cost for that verification to
4 CalEnergy was over \$44,000 for our four facilities. The
5 ARB regulations were changed and now require annual
6 independent verification. There is two levels of
7 verification. And in 2011, our verification costs
8 exceeded \$25,000.

9 CalEnergy respectfully requests requirement for
10 independent verification in the current proposed
11 regulations be eliminated for geothermal energy production
12 without an obligation under cap and trade.

13 CHAIRPERSON NICHOLS: Thank you. I'm glad you
14 finished. Thank you.

15 Mr. Harris and then Tim Haines.

16 MR. HARRIS: Good morning, Madam Chair, members
17 of the Board.

18 My name is Frank Harris. I'm with Southern
19 California Edison. I just have a quick comment to express
20 some concern over the reporting regulation updates.

21 One of the key concerns that Edison has here is
22 whether or not all imported electricity will be accounted
23 for in the Cap and Trade Program. We're concerned some
24 out-of-state sellers who submit bids and deliver energy
25 into the ISOs out of state delivery notes may not report

1 data for all the electricity they sell that way.

2 If these out-of-state sellers are allowed or
3 somehow permitted to avoid that reporting and the State's
4 compliance obligation of course would have pretty
5 devastating effects on the environmental integrity of the
6 program, but also on the wholesale electricity markets as
7 a whole.

8 As a result, we believe this issue needs to be
9 addressed absolutely as soon as possible, certainly no
10 later than the first of January 2013. And it's critical
11 that ARB independently collect the sufficient information
12 to make sure that all imported electricity and the
13 associated emissions are reported and accounted for.

14 And so following up on your question to Cathy, in
15 that way we would support along with CCEEB -- and we're
16 working with CCEEB as you might imagine -- their call for
17 some guidance language on how ARB is going to collect this
18 data in the event that the mandatory reporting regulation
19 may not prove sufficient. And then, further, going a step
20 further, how ARB plans to enforce the rule with regard to
21 what the concern that I've expressed here.

22 It's really paramount that ARB demonstrates in
23 its enforcement practice here just in the event an
24 out-of-state seller may choose to try to avoid this
25 compliance obligation.

1 So we stand ready to work with staff. They've
2 been great in working, communicating with us on this
3 issue. And I guess my main call here is that this
4 actually we feel is a very urgent issue and should be
5 addressed before the start of the compliance obligation in
6 January.

7 CHAIRPERSON NICHOLS: Thank you.

8 I think we would all agree that this is a
9 critical issue, and we have to get it right. It was only
10 recently surfaced as something where there might be a lack
11 of clarity in the regulation. I'll ask staff about this.
12 We agree with you this needs to be addressed.

13 Mr. HARRIS: Thank you very much

14 CHAIRPERSON NICHOLS: Tim Haines and then Norman
15 Pedersen.

16 MR. HAINES: Good morning, Chair Nichols, members
17 of the Board.

18 My name is Tim Haines. I'm with the State Water
19 Contractors. We're an association of water agencies that
20 receive water from the State Water Project. We distribute
21 it to 25 million businesses and families throughout the
22 state of California.

23 The water comes from the State Water Project.
24 And in order to be able to move the water, there is a lot
25 of pumping that's involved. The pumps consume a great

1 deal of energy. And as a consequence, the State Water
2 Project is regulated under cap and trade.

3 We want to express our appreciation to the Board
4 for trying to work hard along with us in order to be able
5 to understand the unique circumstances that are
6 encountered by the State Water Project under the cap and
7 trade regulations.

8 We've appreciated being able to meet with members
9 of the Board, members of the staff in order to be able to
10 help you understand those circumstances. And we look
11 forward to a continued dialogue in order to be able to
12 address our concerns.

13 Thank you.

14 CHAIRPERSON NICHOLS: Thank you. Thanks for
15 coming.

16 Norm, and then Michael Kafka.

17 MR. PEDERSEN: Good morning. I'm Norman Pedersen
18 for the Southern California Public Power Authority, or
19 SCPPA.

20 SCPPA very much appreciates the staff's
21 continuing effort to streamline the mandatory reporting
22 regulation. The amendment that you have before you today
23 incorporates a number of changes that SCPPA recommended
24 before the institution of the rulemaking proceeding. The
25 amendment also contains a number of changes that SCPPA

1 recommended during the informal process that staff
2 conducted before releasing the amendment for 45-day
3 comment. Some of the amendments will directly reduce the
4 cost of compliance with the reporting regulation.

5 This is particularly true of the removal of
6 verification requirements for facilities that emit over
7 25,000 metric tons per year. And this provision, by the
8 way, will directly effect five SCPPA members. Thus, we
9 support the amendments and urge that you adopt them today.

10 However, there are some further revisions that
11 SCPPA believes would be helpful. First, we would
12 appreciate clarification that the provisions about
13 reporting renewable energy credits are not intended to
14 prevent an importer of electricity from claiming an RPS
15 adjustment before retiring the associated credits.

16 Second, we would appreciate clarification to
17 assure the revocation of an asset controlling supplier
18 status would not have a retroactive effect on the
19 emissions calculations of an entity that purchased from
20 the asset controlling supplier.

21 Third, we would appreciate some clarification and
22 expansion of several definitions as we have recommended in
23 our 45-day written comments.

24 With these clarifying revisions that we hope to
25 see in 15-day changes, SCPPA urges adoption of the

1 amendment that is before you today. And thank you very
2 much.

3 CHAIRPERSON NICHOLS: Thank you.

4 Michael Kafka, followed by Mark Krauss and Joshua
5 Star.

6 MR. KAFKA: Thank you, Chairman Nichols and
7 Board.

8 My name is Michael Kafka. I'm here from Arizona
9 Public Service Company, although the majority of our
10 output is used to serve base load within the state of
11 Arizona, excess power is at times sold. So we are
12 certainly implicated by the rules, and we've been
13 following them closely.

14 We have a couple of comments. And again we
15 appreciate the Board's and Chairman Nichols willingness to
16 listen to those comments.

17 First of all, with respect to netting, Section
18 95852(b)(6) contemplates a credit to the obligation if
19 transactions occur within the same hour, meaning imports
20 and then exports into the KYSO and out exports out of the
21 KYSO occur within the same hour.

22 And the rational that was given in the 2011 Final
23 Statement of Reasons of California's Cap and Trade
24 Program, one of the rationals is that it's similar to
25 wheeling and there is a recognition of this. And we

1 believe that given that rational and given the fact that
2 we oftentimes generally do not know when power goes into
3 the KYSO where it's going, and we certainly don't know
4 when we -- for example, we exported out of the KYSO into
5 Ehrenberg, Arizona from below there, we don't know from
6 where or where that was generated.

7 We believe annual netting would be appropriate in
8 this case and that the temporal proximity, meaning hourly
9 or weekly or annually, is not relevant to the wheeling
10 issue. And again, we would like to propose an annual
11 netting time frame actually within the same calendar year
12 time frame.

13 Second, emissions reporting status, when an
14 out-of-state entity such as ours reviews the regulations,
15 it's very difficult to determine whether we're a
16 generation-providing entity or whether we can just use the
17 default rate because most of our power going into the --
18 all of the power going into the KYSO excess power of the
19 bulk power pool, we're not sure from where that would
20 generate it. And again, we don't know what of that power
21 is actually going to serve what load.

22 And we find it difficult to know whether we may
23 just use a default rate and having this power being
24 produced from unspecified sources or whether that would be
25 considered inappropriate on a later day. Because my

1 understanding is that staff has eight years to look at
2 emission reports and then make a determination.

3 My time is up.

4 CHAIRPERSON NICHOLS: Thank you. You have
5 submitted written testimony.

6 MR. KAFKA: We have. And it's similar to what I
7 just spoke on. Thank you.

8 CHAIRPERSON NICHOLS: Thank you.

9 Mr. Krausse.

10 MR. KRAUSSE: Good morning, Madam Chairman, Board
11 members.

12 Mark Krausse with Pacific Gas and Electric.

13 PG&E has filed comments on the mandatory
14 reporting rule amendments, and it was a useful process.
15 We filed those written comments. We met with staff, had a
16 very productive meeting and were able to resolve all
17 those. I would recommend that process. Staff is very
18 cooperative.

19 Some of these are pretty weedy issues natural gas
20 blow down, pneumatic devices. Your staff worked very hard
21 to understand businesses that frankly I don't understand
22 as part of our business. We really appreciate that.

23 The only other comment is that we would support
24 guidelines in the enforcement area. When one looks at the
25 Health and Safety Code provision for enforcement, you can

1 very quickly get to a very high numbers. I think it would
2 be helpful to have guidelines in that area and have
3 reduced blood pressure.

4 CHAIRPERSON NICHOLS: Good. Thank you.

5 Joshua Stark.

6 Mr. Stark is our final witness. Oh, wrong item.
7 Very good. Okay.

8 Was there anyone else who wanted to testify on
9 this particular item? It is, indeed, technical and also
10 as you can hear from the witnesses important to get it
11 right.

12 Staff, do you have any concluding comments? I
13 have a couple of questions for you. But that will close
14 the public testimony part of the hearing.

15 EXECUTIVE OFFICER GOLDSTONE: We can make
16 comments on a few of the items just to make sure the Board
17 members understand how we're dealing with it.

18 CHAIRPERSON NICHOLS: The one I'm concerned about
19 is why we insist on the reporting of the geothermal
20 emissions if EPA doesn't.

21 And also I guess on this issue that was mentioned
22 by Mr. Peterson about the rec credits. That stuff is
23 really complicated, I know. If you can help to clarify
24 it, it would be helpful.

25 EXECUTIVE OFFICER GOLDSTONE: Maybe Richard can

1 respond to that.

2 HEALTH AND EXPOSURE ASSESSMENT BRANCH CHIEF BODE:
3 I'm Richard Bode.

4 So the first question you had had to do with
5 geothermal. So in the mandatory reporting requires
6 geothermal as well as the biomass plants, if they're over
7 25,000 metric tons of CO₂, to be treated -- actually have
8 you verify it and much less intensive verification for the
9 biomass. And that's also to guarantee that the emissions
10 conform to the cap and trade requirements be exempted from
11 obligations. We do require the reporting, actually, the
12 10,000 level. And that's also because we want to have a
13 complete characterization of electricity generation in
14 California.

15 CHAIRPERSON NICHOLS: Just to understand if
16 emissions are being pushed from one type of plant to
17 another, what that really means for greenhouse gas
18 emissions.

19 HEALTH AND EXPOSURE ASSESSMENT BRANCH CHIEF BODE:
20 If they have difficulty with their measures and their
21 methodologies, we would be more than happy to work with
22 them. And I believe their comments kind of reflected that
23 input.

24 CHAIRPERSON NICHOLS: Okay. That's helpful. And
25 then the other issue I guess was this netting business for

1 the recs that are imported. Can you address that one?

2 HEALTH AND EXPOSURE ASSESSMENT BRANCH CHIEF BODE:
3 So I think that has to do -- I think the comment came from
4 Mr. Pedersen had to do with whether they were allowed to
5 retire -- had to retire the recs when they did their RPS
6 adjustments and adjustment in mandatory reporting. And,
7 of course, what happened this year was the Energy
8 Commission basically put a postponement on it's
9 requirement. They have to retire them this year. We
10 agree with this comment. We're implementing the
11 regulation this year as well. We put guidance out as
12 well.

13 CHAIRPERSON NICHOLS: Other Board members have
14 any questions on this item?

15 Barbara.

16 BOARD MEMBER RIORDAN: Madam Chairman, let me
17 just ask -- you had mentioned it and I was going to
18 mention it as well. The fact that CCEEB provided -- I
19 don't know whether staff has had a chance to look at it
20 and how might we move forward with this particular item.
21 I realize it came to us rather late and so --

22 EXECUTIVE OFFICER GOLDSTENE: This has been an
23 issue we've been working with CCEEB on for the past couple
24 years. We think that -- and particularly what they shared
25 yesterday -- I think they have a right to be asking for

1 the clarification. But we think we have reassured them
2 and others, but I'll let Jason address that.

3 MR. GRAY: Hi. I'm Jason Gray with the Legal
4 Office.

5 We worked with CCEEB for quite a while on this
6 specific issue, and we met with them recently. And I
7 think their comment letter reflects that and explained in
8 our Final Statement of Reasons we actually respond to all
9 the comments that come to us. And many of those comments
10 during the last round of amendments were related to
11 enforcement questions.

12 So we walked through those comments with them and
13 agreed that we would distill those more into a smaller
14 document in our Final Statement of Reasons and work with
15 them as their comments suggest. So we'll be working with
16 them, and I think we can help address the issues.

17 CHAIRPERSON NICHOLS: This has been a theme of I
18 think every meeting I've had with CCEEB since we first
19 began working on this issue, because on behalf of a very
20 broad array of their members, this is one issue they're
21 all focused on. And we have made progress, but they do
22 want more formal guidance than I think the staff is ready
23 to turn their attention to it as soon as we get this phase
24 behind us.

25 Other comments? If not, I would ask for a motion

1 and a second on this item.

2 BOARD MEMBER D'ADAMO: Move adoption.

3 BOARD MEMBER YEAGER: Second

4 CHAIRPERSON NICHOLS: All in favor please say
5 aye.

6 (Ayes)

7 CHAIRPERSON NICHOLS: Opposed?

8 Abstentions?

9 All right. Thank you. This concludes our first
10 agenda item. And we will move quickly to a fun -- I think
11 fun update on what's going on in the world of
12 zero-emission vehicles advancement technology vehicles.

13 Let me just say we have representatives here from
14 the California Energy Commission, as well as ARB staff,
15 the California Fuel Cell Partnership, and the Plug-In
16 Electric Vehicle Collaborative. And the focus of this is
17 not on the vehicles, but on the infrastructure that is
18 needed to support a new generation of vehicles.

19 As we've seen with the finalization of the
20 low-emission vehicle regulations last month, by the Office
21 of Administrative Law, it's now time to take a look at
22 what implementation really looks like, especially the
23 plug-in hybrids, battery electrics, and fuel cells.
24 Infrastructure for refueling these vehicles is going to be
25 critical to their proliferation, which of course we have

1 an interest in and to the customer experience and so
2 therefore doable success for the market.

3 In addition to having a strong regulatory pathway
4 for achieving reductions from light-duty vehicles, we also
5 are blessed with public/private partnerships that are
6 going to be critical, I think, to the success of these
7 advanced vehicles through real commercialization. So two
8 of these organizations which ARB has had a role in helping
9 to create are the California Fuel Cell Partnership and the
10 Plug-In Electric Vehicle Collaborative. We are members of
11 these organizations and very please to support their work.
12 But what makes them unique I believe anywhere and
13 particularly effective is that these are voluntary
14 associations that represent a panoply of different groups
15 that represent a particular technology the manufacturers
16 of the vehicles and fuels.

17 So it's a remarkable story. And I think it's
18 going to be interesting for all of us to hear what's on
19 tap and what's planned for the future. And at that point,
20 since everybody seems to be in place, we'll turn its over
21 to the staff.

22 EXECUTIVE OFFICER GOLDSTONE: Thank you, Chairman
23 Nichols.

24 Today, Ms. Analisa Bevan of our Mobile Source
25 Control Division will provide a status update on the

1 zero-emission vehicle regulation, implementation efforts,
2 next steps, and open issues. Following Ms. Bevan's
3 presentation, we'll hear from our two partnership
4 organizations regarding the collaborative efforts we have
5 underway to support commercialization of ZEVs.

6 We'll start with Ms. Catherine Dunwoody,
7 Executive Director of the California Fuel Cell
8 Partnership, who will walk us through the organization's
9 recent development of a road map for fuel cell vehicle
10 commercialization.

11 And then hear from Ms. Diane Wittenberg,
12 Executive Director for the Plug-In Electric Vehicle
13 Collaborative, who will provide us with an update on
14 making California communities plug-in electric vehicle
15 ready.

16 And then finally Mr. Pat Perez from the Energy
17 Commission will address the role the Commission has been
18 playing in helping to fund infrastructure deployment.

19 Ms. Bevan.

20 (Thereupon an overhead presentation was
21 presented as follows.)

22 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

23 CHIEF BEVAN: Good morning, Chairman Nichols, members of
24 the Board.

25 Thank you for this opportunity to provide you

1 with an update on activities related to zero-emission
2 vehicle infrastructure and an opportunity to invite our
3 partner members, membership organizations, the Fuel Cell
4 Partnership, and the Plug-In Electric Vehicle
5 Collaborative, as well as our sister agency, the
6 California Energy Commission, to give you an update on
7 these items.

8 --o0o--

9 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

10 CHIEF BEVAN: To give you an overview about what I'll
11 talking about this morning, I'll give you a fast update on
12 the status of the zero-emission vehicle regulation, a
13 snapshot of where we are with other activities supporting
14 ZEV commercialization, particularly the clean vehicle
15 rebate program, what we're looking for in infrastructure,
16 and why this is such an issue, as well as highlight the
17 zero-emission vehicle Executive Order and Action Plan
18 signed by our Governor in March and then move into the
19 partner presentations.

20 --o0o--

21 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

22 CHIEF BEVAN: You'll probably remember this slide that
23 shows us our future of where we're going with the volume
24 of zero-emission vehicles under the ZEV regulation.

25 The regulation amendments, as you will remember,

1 were adopted in January 2012. They were finalized by the
2 Office of Administrative Law August 7th, just last month.
3 And they became immediately effective.

4 And I just got back from Washington at our
5 zero-emission vehicle EPA waiver hearing, the advanced
6 clean car waiver hearing yesterday. We're asking for
7 approval of that waiver by the end of the year. So we're
8 moving very quickly on being able to implement this
9 program in California.

10 --o0o--

11 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

12 CHIEF BEVAN: As we showed in January, there are a lot of
13 ZEVs coming the market or already here that will apply to
14 the ZEV mandate.

15 --o0o--

16 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

17 CHIEF BEVAN: And I'll turn now to what we're looking for
18 to ensure their successful market launch.

19 --o0o--

20 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

21 CHIEF BEVAN: First, a snapshot of where we are with the
22 Clean Vehicle Rebate Program.

23 In addition, probably one of the first challenges
24 to seeing a successful market for zero-emission vehicles
25 is addressed in the up-front cost. And our Clean Vehicle

1 Rebate Program funded by AB 118 provides \$2,500 for the
2 purchase battery electric or fuel cell cars and \$1,500 for
3 the purchase of a plug-in hybrid.

4 Over 9,000 vehicles have received rebates so far,
5 5800 BEVs and fuel cells and 3200 plug-in hybrids. Nearly
6 \$25 million has been allocated to this program to date,
7 and we have one-and-a-half years left in allocations for
8 AB 118.

9 --o0o--

10 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

11 CHIEF BEVAN: Apart from the first cost, probably the
12 second most significant challenge to commercializing ZEVs
13 is infrastructure. Consumers need to know that
14 infrastructure is accessible, affordable, easy to
15 establish. It's reliable. And it has an environmental
16 benefit to use that fuel in that vehicle in order to make
17 a decision to make a purchase of a ZEV.

18 Today's presentations will talk about how
19 partners are working on addressing these infrastructure
20 considerations for plug vehicles and hydrogen fuel cells.

21 --o0o--

22 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

23 CHIEF BEVAN: Before we go into our guest presentations
24 though, I want to highlight another exciting development
25 for zero-emission vehicle development and utilization in

1 California. That was the Governor's signing of Executive
2 Order B-16-2012 on March 23rd of this year. It supports
3 the rapid commercialization of ZEVs with the goal of
4 seeing 1.5 million zero-emission vehicles on the road by
5 2025.

6 And an interim step is having enough
7 infrastructure to support one million ZEVs by 2020.

8 Additionally, it requires that the State be a
9 significant player in this by purchasing 10 percent of new
10 cars meeting zero-emission vehicle requirements by 2015
11 and 25 percent by 2020.

12 We've been working with the Governor's office,
13 with the State Agency Task Force to develop an Action Plan
14 on how to implement this Executive Order. Within that
15 Action Plan, we have four broad areas that we're looking
16 at coming up with action items on, including meeting
17 infrastructure community readiness needs, consumer
18 awareness, transforming fleets, not just the state fleet,
19 by private fleets as well, and ensuring economic
20 development and investment in zero-emission technologies.

21 Next Friday, we'll be hosting here at Cal/EPA a
22 stakeholder summit to work with our stakeholders and
23 unveil that Action Plan and get feedback and basically
24 present this living document we will work from to fully
25 implement the Governor's Executive Order.

1 --o0o--

2 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

3 CHIEF BEVAN: So now -- I'm confused this morning about
4 which order we were going in.

5 So this morning, we'll hear from two of our
6 public/private partnerships and one sister agency on
7 efforts to address the infrastructure considerations in
8 California. We'll start with a presentation from Diane
9 Wittenberg, the Plug-In Electric Vehicle Collaborative,
10 and then move to Catherine Dunwoody with the Fuel Cell
11 Partnership. And finally a presentation from Pat Perez of
12 the California Energy Commission on their funding of
13 infrastructure.

14 Diane.

15 MS. WITTENBERG: Thank you. Good morning,
16 Chairman Nichols and members of the Board.

17 It's a great pleasure to be here, by the way. I
18 was involved in electric vehicles in the '90s when CARB
19 had the two percent rule in place. And when that doesn't
20 fully work out, you came back with something bigger,
21 better, and stronger. I felt that was very impressive at
22 the time and still very impressed, pleased to be part of
23 the PEV future.

24 --o0o--

25 MS. WITTENBERG: So the membership of the PEV

1 Collaborative goes across State government, auto makers,
2 utilities, charger providers. And the leadership of the
3 State agencies, and most especially CARB, has really been
4 key to putting a collaborative together. So I want to put
5 credit where credit is due. And especially Chairman
6 Nichols' personal leadership driven by this whole idea
7 that the private sector must partner with the public
8 sector to drive electric transportation future.

9 CARB has contributed staff and resources to us.
10 And I especially want to thank Joshua Cunningham, who is
11 an employee of CARB and also an employee on loan to the
12 PEW Collaborative for this presentation today.

13 --o0o--

14 MS. WITTENBERG: In the past year-and-a-half, we
15 worked on a set of documents that may be in front of you
16 or certainly will be presented to you.

17 CHAIRPERSON NICHOLS: I think we're coming.

18 MS. WITTENBERG: Here they come. I hope you have
19 a big briefcase.

20 And these documents were put together -- we
21 worked to get a million dollar grant with others from the
22 DOE last year on PEV infrastructure readiness for
23 communities in California. We have many workshops. We
24 put together these check lists and guidance documents and
25 readiness guidelines. And the Collaborative has moved on

1 from local government readiness for infrastructure to
2 really focusing on MUD, multi-unit dwelling
3 infrastructure, and workplace infrastructure, all sorts of
4 focus. So that's what we'll be talking about today.

5 --o0o--

6 MS. WITTENBERG: I'm going to give you three
7 quick fact slides before we go into a couple of policy
8 considerations.

9 This is the curve of PEV sales in the US.
10 California leadership is very much focused on here. Fifty
11 percent of all PEVs were sold in California by the end of
12 last year. We've now fallen 40 percent of all the PEVs,
13 because as other states open up and become markets.

14 The curve here, the red line is faster than when
15 hybrids were introduced ten years ago, which is very
16 encouraging. As fuel cell vehicles are introduced, that
17 curve could get even steeper, which I think is even more
18 encouraging.

19 What you don't see on this chart, but which is
20 true, is that over time the plug-in vehicles, like the
21 plug-in Prius and the Volt, have a much bigger market
22 percentage than the pure BEV. That's something to keep in
23 mind as we think about infrastructure because it effects
24 thinking about infrastructure. And of course, we don't
25 know if that's the mix that will continue or not, and I'll

1 that home charging is most important, workplace charging
2 second most, fast charging, third most important.

3 You may see this same chart in front of you for
4 the next ten years. And you might see it only ten years
5 from now and people will laugh at it, like, this is what
6 we used to think.

7 But, in fact, I think an important key to
8 infrastructure is about 70 percent of Californians live in
9 multi-unit dwellings. And they may, as the market
10 develops, charge, say, just at the workplace and with fast
11 charging. We just don't know. That's really the theme of
12 my presentation, what the behavior of the owners will be.
13 So, therefore, it won't be efficient, but it will be right
14 in the long run.

15 --o0o--

16 MS. WITTENBERG: So here are the unresolved
17 market issues. When I say unresolved, I mean, they're
18 nascent. It isn't because there's regulation to decide
19 them, but because the buyers haven't decided yet.

20 The real key issue though on infrastructure that
21 I want to make a real point with you all is the fact that
22 electricity is so ubiquitous that it's clean, it's getting
23 cleaner, is really the most important element of PEV
24 infrastructure. The fact of our level one or level two,
25 are you at home or at the workplace, is all secondary to

1 the fact the electricity is everywhere. So it's a very
2 useful choice for all these car buyers. Given that
3 electricity is everywhere, how do you get that electricity
4 into the cars?

5 On a public charging business models, if you talk
6 to the chains, the Targets, the Safeways, and they're
7 looking at putting a charger in their parking lot, the
8 questions they ask themselves are basically -- they start
9 by saying we know that 85 percent of PEV owners, once they
10 have a PEV, it's their primary car. It will show up in
11 our parking lot. So if we put a charger in, will that
12 bring us more customers? Or will we make money by putting
13 charging in and charging people to use it? Or will we
14 look like idiots because they're going to gather dust and
15 embarrass us for embracing a technology that is not a
16 long-term technology. So those are the issues that are
17 working out in the public work space.

18 In terms of workplace charging, everyone agrees
19 that workplace charging is a range extender. You drive
20 ten miles to work. You get an extra ten miles at work,
21 and you effectively have a longer range in your car. So
22 it's really the most important thing that people are
23 focusing on now that they've settled home charging in a
24 way they hadn't two years ago.

25 What's the best balance between charge levels?

1 Well, that has to do with what our the cars going to look
2 like in ten years? Will we go to mostly pure BEVs or
3 mostly be with plug-in electric vehicles? That will
4 effect the mix of charging.

5 And then the problem about a DC charge standard.
6 The Leafs that came out have a fast charge standard. You
7 don't want to strand the early adopters, yet the other
8 automakers are tending to a different charge standard. So
9 I think something that will come up before you in the
10 future is how do you most effectively protect the early
11 adopters without wasting public money on charging that
12 isn't going to be used as much as as another standard. So
13 the whole social cost issue.

14 And then the whole issue of off-peak charging is
15 one that will come up before you and people will talk
16 about it. Right now, we know that two-thirds of charging
17 is done at home. It's not all off-peak, but it's at home.
18 Do we encourage more being at home? Do we encourage more
19 being off peak? Or do we not care because you figure you
20 pay for it at market prices. And so if people are willing
21 to pay for it, they can use it at least for the first
22 million cars that come in, wherever they find it.

23 And will B2G turn this whole thing around? Will
24 ten years from now the practice always be plugged in
25 because whenever the system can, it will fill your battery

1 consuming.

2 --o0o--

3 MS. WITTENBERG: Workplace charging again is the
4 second most important location after the home. It's very
5 useful. South Coast Air Quality Management District, for
6 example, has workplace charging as a useful compliance
7 mechanism as part of its transportation management
8 compliance rule 2022. And that's been encouraging a lot
9 of workplace charging.

10 In the Bay Area, AQMD did a survey of about 600
11 workplaces, and 70 percent of them said that they would
12 like to install more or their first workplace charging.
13 And the three barriers that they faced -- and this shows
14 they know a little bit about what they're talking about.
15 The first one was the cost of installation. The second
16 was the cost of the equipment, and that's the right order,
17 in terms of how expensive things are. And the third one
18 is they're afraid no one will use it. They're really at
19 that inflection point.

20 --o0o--

21 MS. WITTENBERG: These are very conservative
22 numbers of how many chargers have been installed. NRG is
23 about to have -- through a settlement with the PUC to
24 install 10,000 really commercial and workplace chargers.
25 They're going to focus on hospitals, universities,

1 multi-unit dwellings, and they're going to install the
2 make-readys in groups of ten or more. So whenever they go
3 and install, you'll have an opportunity to charge ten cars
4 at once.

5 And in their DC fast charging, I think it's
6 notable that they are really addressing safety issues.
7 Where should they put the DC fast charging so that when
8 you're sitting there with your car linked to a big heavy
9 480 volt cord, you don't feel quite as vulnerable as you
10 might. So they're making sure there's lots of lighting,
11 lots of security cameras. They're assessing sites with
12 Pinkerton to make sure there is no place people can lurk
13 by. And that makes me feel confident.

14 --o0o--

15 MS. WITTENBERG: A lot of analysis on where
16 charging should go. And I think it's interesting, U.C.
17 Davis is analyzing it in terms of where you put it depends
18 on how much you can increase range.

19 --o0o--

20 MS. WITTENBERG: Talked about that. In terms of
21 the government's role, I think that you all have done an
22 excellent job in the government's role on infrastructure.
23 There's still some work to do on fuels. Through the PUC,
24 it's so clear that everyone knows how much a gallon of
25 gasoline costs and how much it takes to fill their tank,

1 So Catherine, welcome.

2 MS. DUNWOODY: Thank you very much, Chairman
3 Nichols and members of the Board, for the opportunity to
4 present to you today from the California Fuel Cell
5 Partnership our progress in deploying hydrogen
6 infrastructure in vehicles in the state.

7 I want to thank the Board for your longstanding
8 support of the organization through leadership and all the
9 resources that you've put into this effort. It's been
10 very much appreciated.

11 So today, I'm going to talk to you about our
12 progress in implementing hydrogen and fuel cell vehicles
13 in California. I'd like to draw your attention to a
14 document hopefully you received, our latest publication,
15 California road map, for bringing commercial volumes of
16 fuel cell vehicles to the state. I'll be focusing on that
17 work in my presentation.

18 --o0o--

19 MS. WITTENBERG: First, I want to remind everyone
20 here that a fuel cell vehicle, in fact, is an electric
21 vehicle. These vehicles, instead of plugging in to
22 recharge, they refill with hydrogen fuel.

23 But all the other components of the vehicle are
24 very comparable to the vehicles that use plug-in
25 technology. Whether they're at full battery electric

1 The top chart shows the results of cost analyses
2 conducted annually by the Department of Energy, indicating
3 steady progress towards the 2017 target of \$30 per
4 kilowatt.

5 And what I'd like to point out is that target was
6 established in partnership with auto makers in order to
7 demonstrate that fuel cells can be cost competitive with
8 internal combustion engines.

9 The bottom chart shows how projected costs vary
10 with manufacturing volume. The DOE's technology
11 validation program has also demonstrated real world
12 driving durability of 75,000 miles in actual cars on the
13 road, and the lab results have indicated this can be
14 doubled to 150,000 miles.

15 Also, real world driving range has been validated
16 by DOE at between 250 and over 400 miles, depending on the
17 make and model of the vehicle.

18 --o0o--

19 MS. DUNWOODY: Department of Energy has also set
20 a hydrogen threshold cost of two to four dollars per
21 gallon of gasoline equivalent. I need to explain here a
22 kilogram of hydrogen has about the same energy at content
23 as a gallon of gasoline. And what the Department of
24 Energy did was chose this threshold of cost to represent
25 the cost at which hydrogen fuel cell electric vehicles can

1 be cost competitive on a cost per mile basis, and total
2 cost of ownership with gasoline hybrid electric vehicles
3 in 2020.

4 The Department of Energy has determined that
5 hydrogen from natural gas can meet this threshold volume
6 cost today when produced at volume. In 2009, an
7 independent DOE panel estimated the cost of hydrogen from
8 on-site electrolysis to be about double this or five to
9 \$6.00 per gasoline gallon equivalent. The DOE has a very
10 active R&D and validation program to bring these costs
11 down.

12 Hydrogen fuel cell vehicles give customers over
13 twice the fuel economy of a combustion engine. And as I
14 mentioned, since the kilogram of hydrogen has about the
15 same energy content as a gallon of gas, a fuel cell
16 vehicle drivers who pays eight to \$10 per kilogram of
17 hydrogen is paying about the same per mile cost for fuel
18 as the gasoline driver paying \$4 per gallon today.

19 Measuring progress to these and other milestones,
20 a number of auto makers have signaled their intent to
21 launch fuel cell electric vehicles into the commercial
22 market.

23 --o0o--

24 MS. DUNWOODY: And that's good for California
25 because, as we know, along with battery electric vehicles,

1 fuel cell electric vehicles will have one of the lowest
2 GHG options in the transportation. And this is data from
3 the Department of Energy as well.

4 --o0o--

5 MS. DUNWOODY: This is on a well to wheels basis.

6 So today, in California, there are over 200 fuel
7 cell electric vehicles operating on the road, and they're
8 used by regular customers who use them for business and
9 personal travel every day. They fuel at eight public
10 hydrogen stations, and we have more in planning and
11 construction. We're on track to have about 20 hydrogen
12 stations by the end of next year.

13 The fuel cell electric buses are being used in
14 regular transit service, and auto makers have made it very
15 clear that California is their first U.S. market for fuel
16 cell electric vehicles. It's one of a handful of early
17 markets worldwide.

18 --o0o--

19 MS. DUNWOODY: Every year, the California Air
20 Resources Board, the Energy Commission, and the California
21 Fuel Cell Partnership survey the auto makers to determine
22 their plans for bringing fuel cell electric vehicles to
23 California. These results indicate that auto makers plan
24 to significantly increase their production between 2015
25 and 2017. That's consistent with public media

1 announcements that have been made by several auto makers
2 about their intent to launch commercial production.

3 This jump in volume helps them achieve economies
4 of scale as quickly as possible, and it helps justify the
5 significant investments that they're going to need to make
6 to support the new technology in the marketplace, for
7 example, training their dealers and service providers and
8 providing customer support. So we've got a lot of
9 vehicles coming. How are we getting ready for this market
10 launch.

11 --o0o--

12 MS. DUNWOODY: Well, a couple of years ago, in
13 2009, the California Fuel Cell Partnership published an
14 Action Plan that identified the early markets or the
15 clusters where auto makers expect to find their first
16 customers for fuel cell electric vehicles. Eight public
17 hydrogen stations are located in these markets today where
18 customers are driving vehicles today. And these stations
19 provide hydrogen produced in several different ways. For
20 example, produced from electrolysis using solar power at
21 the Emeryville station, on-site reforming of natural gas
22 at the Newport Beach station, from a pipeline at the
23 Torrance station, and from wastewater digester gas at the
24 Fountain Valley station. We have many more hydrogen
25 stations --

1 --o0o--

2 MS. DUNWOODY: -- in various stakes of
3 commissioning, construction, or planning. As I mentioned,
4 we expect about 20 stations will be operating in
5 California by the end of 2013.

6 --o0o--

7 MS. DUNWOODY: So over twelve years of deploying
8 vehicles in stations, we've learned a few things about how
9 and when people want to fuel.

10 First, we know that people will not buy or lease
11 cars until they see that stations are available. This
12 should end the chicken and egg conversation. We know
13 stations have to come forward.

14 Thanks to work by U.C. Davis, as well as the auto
15 makers' own market information, we know that people tend
16 to fill their cars near home and work. That's not enough.
17 They also want to know they can get fuels in the places
18 they like to visit -- destinations as we've come to call
19 them. They know the station must be customer-friendly.
20 We've got to be well-lit, open 24 hours a day, if
21 possible, under a canopy, easy to operate and safe.

22 Thanks to modeling from U.C. Irvine, we know that
23 six minutes is about the maximum time that people will
24 travel to a station in order to consider it to be
25 convenient within their cluster.

1 And all this combined research gives us a really
2 good idea of where stations need to be launch the
3 commercial market.

4 --o0o--

5 MS. DUNWOODY: So to determine the number and
6 location of stations in the clusters, the national
7 research centers, one of our members, analyzed the
8 clusters with their Street model. Street is a model that
9 considers variables, including auto maker market data,
10 travel time, travel route, existing gas station, and
11 vehicle ownership density to determine the optimal
12 locations for stations within a particular cluster.

13 And also connector and destination stations are
14 an important part of the early commercial market. Before
15 replacing a gasoline vehicle with a fuel cell electric
16 vehicle, the first customers will really want to know
17 they'll be able to get fuel when and where they need it.

18 So based on the clusters identified by the auto
19 makers, U.C. Irvine identified 45 stations that would be
20 needed in those clusters to give customers a convenient
21 access to fuel. And we also identified the 23 connector
22 and destination stations that based on people's travel
23 patterns from those clusters and the OEM's marketing
24 information, they determine they need to travel for
25 weekends and other types of travel that they like to do.

1 --o0o--

2 MS. DUNWOODY: So this is the map that we arrived
3 at. It's in our document, the California road map. And
4 it shows the optimal areas for the initial hydrogen
5 station network in California. You'll see we've got a
6 focus in Northern California, both the southern south Bay
7 Area and Silicon Valley as well as the east bay. And in
8 the Los Angeles area, three general areas: Orange County,
9 the Torrance, beaches communities, and West L.A. and Santa
10 Monica.

11 And if you remember previous presentations I've
12 given you on our Action Plan, these will look very
13 familiar to you. These are the same cluster locations
14 that have been identified for the past couple years as the
15 early markets for the auto makers for fuel cell vehicles.
16 But what we've done with the road map is expand this out
17 to fully explore how many stations are needed to get to
18 that full commercial launch.

19 This network that's been identified will provide
20 the first 20,000 fuel cell vehicle customers in the six
21 urban areas, with two to three stations each. And it will
22 also adds, of course, those connector station. And those
23 connectors can seed the next clusters of new markets. It
24 also provides stations in population destination locations
25 like Lake Tahoe and Santa Barbara.

1 --o0o--

2 MS. DUNWOODY: So thanks to the State of
3 California's funding, both originally from the Air
4 Resource Board and now continuing through the California
5 Energy Commission, as well as local governments support
6 from the South Coast and other local agencies, 37 of the
7 needed stations are in some stage of operation,
8 development, or are expected to be funded with already
9 allocated funding. So this leaves a deficit of 31
10 stations that still need to be funded in order to reach
11 the goal by January 2016.

12 A group of California Fuel Cell Partnership
13 members are working to establish a hydrogen infrastructure
14 trust that will provide additional funding to achieve two
15 goals. First, to ensure that we can build out an entire
16 network, as well as keep stations open as the vehicle
17 volumes grow.

18 So each new station that comes along may take
19 some business away from an existing station in the short
20 term. And as vehicles grow, it will take some time to
21 build the through-put at each station so operators can
22 realize a profit from selling hydrogen. We don't want
23 operators to get discouraged. So it's really important
24 there is some operating and maintenance costs built into
25 this network of some support.

1 So we analyzed the cost to do this and determined
2 additional incentives of \$65 million are needed beyond
3 what's already been allocated. And that analysis was done
4 in conjunction with Energy Independence Now, one of our
5 members, and as well as experts in the fuel marketing and
6 retailing business.

7 We looked at cost from a business's perspective
8 and analyzed how station owners make investments and
9 operate their equipment today. We looked at their cash
10 flow potential from a hydrogen station to determine what
11 kind of incentives would be needed to encourage them to
12 invest in hydrogen. That's how we arrived at this result.

13 --o0o--

14 MS. DUNWOODY: So 68 stations in California will
15 provide the coverage needed to launch a new vehicle
16 market. It's very important that this number is not
17 defined by the total capacity of fuel needed to fuel the
18 vehicles on the road. Some stations will be used more
19 than others, but they're all needed to give customers
20 confidence in the fueling network.

21 Knowing that those stations are coming, the 68
22 stations provide the auto makers the confidence to launch
23 volume production of vehicles. It gives the customers the
24 confidence to purchase those vehicles, and it gives other
25 businesses, the station providers, equipment suppliers,

1 fuel providers, the confidence to invest in this
2 technology so the market can begin to grow based on normal
3 business planning and investment mechanisms.

4 --o0o--

5 MS. DUNWOODY: So in conclusion, to implement the
6 road map that we've established, the partnership members
7 are working to gain commitment for that funding and to
8 develop the framework to support the 68 station network.

9 This network is needed to achieve Governor
10 Brown's Executive Order milestone of making California
11 communities ZEV-ready, including fuel cell vehicle ready
12 by 2015.

13 And our organization's work is in line with the
14 ZEV Action Plan. We're working closely with the State
15 agencies to implement that plan.

16 We're also working with communities, businesses,
17 and the public to get them ready for hydrogen stations and
18 fuel cell electric vehicles. As just an example of the
19 kind of work we do, we've been training first responders
20 since day one when we brought hydrogen vehicles to the
21 state. And last year alone, we trained over 800 first
22 responders and permitting officials in California
23 communities and will continue to do that.

24 We're also focused on implementing stations in a
25 timely manner, ensuring they perform to consumer and auto

1 makers expectations and helping businesses get on a path
2 to making hydrogen a profitable enterprise that will one
3 day no longer require government support.

4 --o0o--

5 MS. DUNWOODY: So with that, I'd like to thank
6 you for your time. And be glad to answer questions after
7 we are done with the presentations.

8 CHAIRPERSON NICHOLS: Thank you. I think we'll
9 finish up with our Energy Commission presentation and then
10 sort of go to more general discussion. They do all work
11 together.

12 Welcome.

13 MR. PEREZ: Good morning, Chair and honorable
14 Board members. My name is Pat Perez. I'm the Deputy
15 Director for the Energy Commission's Fuels and
16 Transportation Division. And want to let you know I'm
17 very excited to be up here at the dias today with my
18 partners Catherine, Diane, and Analisa, an excellent team
19 to be working with over the years. And we have benefited
20 tremendously from their input, guidance, and support as we
21 move forward with developing the infrastructure necessary
22 to accommodate the expanded number of vehicle choices that
23 are coming out over the next several years.

24 --o0o--

25 MR. PEREZ: One of the things I just kind of

1 wanted to quickly summarize, sometimes we forget why we're
2 even doing this work. And one of the things under the AB
3 118 program is we are working with you to transform
4 California's transportation energy market and reduce
5 California's dependance on petroleum, while also reducing
6 greenhouse gas emissions and criteria pollutants as we
7 move forward in supporting the State's climate change
8 policies, but also creating jobs and attracting private
9 investment, which are critical components of that program
10 that we're managing over at the Energy Commission.

11 We're halfway through this program. Nearly a
12 million dollars of public investment that is leveraging
13 tremendous private capital to California.

14 And as I noted, we have very excited to be
15 supporting the large and rapid deployment of ZEVs
16 throughout our state, not only over the next 20 years, but
17 beyond that. And I now look forward to sharing with you
18 some of the investments we've made to date and more
19 importantly where we're going with this critical seed
20 funding.

21 --o0o--

22 MR. PEREZ: This chart kind of outlines for you
23 over the fiscal years just the broad cross section of
24 significant public investments made to date with respect
25 to electric vehicle and hydrogen fuel cell vehicles and

1 We have 11 stations with Linde Air Products and AC Transit
2 moving forward.

3 --o0o--

4 MR. PEREZ: We also have a draft hydrogen
5 solicitation, which was recently posted competitive
6 solicitation to get some of the best proposals we can
7 possibly entertain before the Energy Commission. And the
8 closing deadline for that draft solicitation ended earlier
9 this vehicle. We have received a large number of comments
10 on that. And my staff and I are currently sorting through
11 those comments before we release the final hydrogen
12 solicitation, which will include up to \$29.7 million,
13 which will support another 15 to 20 stations.

14 So what we decided to do is issue a draft
15 solicitation to get more public input before we send out
16 the final, and we hope to send that out here shortly. So
17 we are very excited about that as we move forward.

18 --o0o--

19 MR. PEREZ: With respect to PEV infrastructure,
20 what we have here are the executed agreements that we have
21 in place totaling nearly \$16 million. And as you can see
22 from the slide, roughly 3,000 charging points have been
23 installed to date, with another 2000 planned. This is
24 strictly with the AB 118 funding. As Diane illustrated in
25 her presentation, some of those numbers are higher and

1 different. And that's because she's including other
2 non-AB 118 projects in the total.

3 --o0o--

4 MR. PEREZ: And then on August 16th, the Energy
5 Commission made a series of additional awards for PEV
6 infrastructure ranging from fast charge, residential
7 workplace, and fleet. And this table shows another \$4.6
8 million of investments has recently been made. We will be
9 working with our recipients to finalize those agreements
10 over the next several months and look forward to seeing
11 that infrastructure constructed quickly to accommodate the
12 many vehicles that are coming on line.

13 --o0o--

14 MR. PEREZ: Also wanted to share with you some of
15 the other ZEV-related investments that we're making
16 throughout California. As Diane mentioned earlier about
17 the regional readiness plans and how critical and
18 important those are, we are providing \$200,000 grants to
19 regional governments throughout California to assist them
20 with developing strategic plans, assisting them with this
21 new charging infrastructure, and establishing best
22 practices to assess and evaluate how we can expedite
23 permitting at the local level and greater acceptance for
24 electric vehicle infrastructure to accommodate our
25 expanding fleets of electric vehicles.

1 And the other thing that we've been -- we're
2 looking at all sectors here, including some of the
3 pre-commercial medium and heavy-duty bus and truck
4 demonstrations. We've committed \$10 million there,
5 covering a range of battery electric medium-duty trucks,
6 electric shuttle buses, battery electric transit buses,
7 drayage trucks so critical for our ports, fuel cell buses.

8 And the one big component that I think is going
9 to pay dividends for the State for many years is the
10 manufacturing component as we attract companies to
11 California to build the components. These provide great
12 jobs throughout the state in some of our areas that are
13 suffering high unemployment right now. And we're very
14 excited about this component of the AB 118 program where
15 we have a great deal of interest. So see a lot of
16 retention of jobs as well as the creation of additional
17 jobs supporting our movement towards more hydrogen fuel as
18 well as electric vehicles throughout the state.

19 And then finally with some of the other
20 activities here, as I noted, the hydrogen infrastructure
21 solicitation, we're taking the comments right now to issue
22 that shortly. Hope to get that out soon as we evaluate
23 and incorporate the great comments that we've received to
24 date.

25 And then also we'll be issuing a plug-in electric

1 vehicle infrastructure solicitation. We are also
2 expanding our regional planning grants that go beyond
3 electric vehicles throughout the state to benefit some of
4 the other alternative fueled vehicles. And we've also
5 established in conjunction with our AB 118 Advisory Group
6 and from input that we've heard from stakeholders and
7 particularly local governments the establishment of
8 centers for alternative fuels and advanced vehicle
9 technologies, we feel is very important.

10 And finally, medium- and heavy-duty vehicle
11 technology demonstrations, setting aside more money there
12 that will benefit hydrogen as well as electrical vehicles
13 and other alternative fuel vehicles.

14 So with that, that concludes my remarks. Thank
15 you for your patience.

16 CHAIRPERSON NICHOLS: Thank you very much. And
17 thanks for your partnership, the Energy Commission's
18 partnership in these issues. Between 118 leadership and
19 our programs, we've been able to accomplish a lot matching
20 up these very different kind of authorities that we have.

21 But I think it's obvious from these presentations
22 that there is a lot of work that remains to be done to
23 really create the kind of infrastructure that's going to
24 be needed. And they're interesting and important
25 questions that have to be asked and answered by

1 governments at the local and state level about how best to
2 do it. So I think it would be good to have a little bit
3 of conversation about that.

4 I see one hand up here right now. So Mayor
5 Loveridge.

6 BOARD MEMBER LOVERIDGE: Agree with Mary Nichols
7 context, but four questions.

8 I noticed on the slide seven when we are talking
9 about State purchasing a certain number of vehicles and
10 looks like we declared victory at the numbers. And the
11 city of Riverside has said for non-public safety vehicles
12 100 percent alternative fuels is our goal. But it seems
13 to me that 10 percent, 25 percent are given -- are
14 aspirations to the State, I see those as low numbers. I
15 guess you celebrated them, but why aren't they higher?

16 CHIEF DEPUTY EXECUTIVE OFFICER CACKETTE: Let me
17 take a shot at this. Tom Cackette.

18 One of the reasons the total vehicles the State
19 buys have a great variety. We don't have battery electric
20 vehicles, for example, in the larger share of battery
21 electric options here. So in terms of electric drive
22 vehicles, they're mainly in the passenger car area. If
23 you're buying vehicles to go around and read meters or to
24 do local types of things, there's better supply than there
25 is if you have to buy trucks and SUV. The hydrogen

1 vehicles in that category are not yet available. That's
2 one of the reasons the targets are somewhat lower.

3 BOARD MEMBER LOVERIDGE: Tom, so related to that,
4 conversation really been in the private marketplace.
5 There is a lot of public -- a lot of vehicles in cities
6 and counties and special districts, whole variety of not
7 individual consumers. What we doing about that? It's a
8 pretty big marketplace. What are we doing about the --
9 for lack of a better word -- the public fleets?

10 CHIEF DEPUTY EXECUTIVE OFFICER CACKETTE: Well,
11 one -- I mean, first of all, the vehicles are being
12 provided commercially, in the case of electric vehicles,
13 by the auto manufacturers. And I think they'll sell to
14 anybody who wants to buy them.

15 BOARD MEMBER LOVERIDGE: I understand that.

16 CHIEF DEPUTY EXECUTIVE OFFICER CACKETTE: So if a
17 city wants to buy 100 percent of a certain type of vehicle
18 use, they can do that now.

19 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

20 CHIEF BEVAN: I think I can add to that, too. This is
21 Analisa Bevan.

22 When the State establishes contracts for the
23 purchase of a vehicle, they create a bid list that can be
24 used by State and county -- local and county
25 jurisdictions. So once we go out for a competitive bid to

1 establish a contract list of electric vehicles, plug-in
2 hybrids, fuel cells, that pre-negotiated purchase price or
3 lease price is available to the locals.

4 That's part of the Department of General Services
5 plan to implement this electric -- ZEV purchase
6 requirement is to establish those bid lists.

7 BOARD MEMBER LOVERIDGE: One other obvious
8 observation there is clearly a coastal strategy for
9 hydrogen. But there is people that live in the inland
10 areas. As you look up and down the valley in the inland
11 areas, there haven't much seeming interest in the charts.
12 Can you comment on -- seems to me EV is not simply for the
13 IS/ES. It should be increasingly judged as something that
14 as available in the general consumer.

15 MS. DUNWOODY: This is Catherine Dunwoody.

16 I'd like to point out the maps you see in this
17 are regarding market launch. The auto makers have
18 identified where they think they'll find the first
19 customers to launch this new technology. Clearly, very
20 quickly after the 2015 to 2017 time frame, there will be
21 broad deployment.

22 In fact, I often hear the auto makers say at a
23 certain point they really -- it kind of gets away from
24 them. Like, they can't necessarily plan any more exactly
25 where they're going to be selling the cars from. They can

1 get demand from all over. Very quickly after we establish
2 this early network, the market will be able to grow more
3 organically from there in the areas that demand those
4 vehicles.

5 CHAIRPERSON NICHOLS: Go ahead.

6 BOARD MEMBER LOVERIDGE: A quick question. In
7 terms of the market, in terms of the projections you had
8 for the sale of EVs, are we on target with the projections
9 that were made initially?

10 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

11 CHIEF BEVAN: Relative to the zero-emission vehicle
12 regulation, we're well ahead of those projections for this
13 time frame.

14 CHAIRPERSON NICHOLS: That doesn't mean the sales
15 are what they were projected as early on. There's been a
16 lot of stories indicating this year the sales have not
17 been as high as they'd been originally hoped for or
18 projected.

19 DeeDee and then Ron.

20 BOARD MEMBER D'ADAMO: Just wanted to follow up
21 on a couple of points made by Mayor Loveridge.

22 With respect to the deployment of stations, it
23 would be my hope that not just looking at placing them in
24 the Inland Empire region in the valley in order to gain
25 access in those areas, but also especially in the Valley

1 to connect north to south. With all the truck and vehicle
2 traffic we have going through the valley, it sure would be
3 nice to find a couple key points where we can do fast
4 charge.

5 And then with respect to local governments, I
6 think that, if I understand, some of the grants from the
7 Energy Commission are to provide assistance to local
8 governments in terms of coming up with a strategy.

9 I'll just say that, in my own experience, I've
10 noticed that where there seems to be an interest, local
11 governments really could use the technical assistance in
12 terms of how to put together a program and wondering also
13 if there is anything that we can do through CSAC, League
14 of Cities, your leadership to try to get similar
15 resolutions adopted -- I don't know by individual
16 cities -- but maybe something system-wide like U.C. Sac or
17 the League.

18 BOARD MEMBER LOVERIDGE: Could I just pick up
19 that?

20 I think connecting with cities and counties would
21 be a good thing. We're working very hard as our own city
22 to be EV friendly. We actually have a \$2500 incentive,
23 you buy a plug-in or EV. Worked very hard on the
24 permitting process. We have consultants helping out. We
25 have show and tell efforts. We're giving special

1 incentives for apartment owners to put in -- I mean,
2 cities are doing what we can.

3 And I think cities and counties can be partners
4 in this. And just to pick up, you haven't mentioned us.
5 We heard about the State, but cities and counties are out
6 there, too.

7 MS. WITTENBERG: This is Diane Wittenberg from
8 the Plug-In Vehicle Collaborative.

9 I thought when I talked about local governments I
10 had talked enough about our collaboration with the cities
11 and regions, because it's quite effective, especially
12 through the Clean Cities Coalitions, of which there are 16
13 in the state.

14 The 200 fast chargers that NRG has committed to
15 through its PUC settlement, which will be largely
16 throughout PG&E and Edison and SDG&E territories are
17 largely a freeway corridor strategy. So it should be
18 throughout the state, although I would certainly encourage
19 you to talk directly to NRG to encourage them to place
20 them as widely as possible.

21 And we are working with the resolution. SCAG
22 just asked us, the collaborative, to put together a
23 resolution that they are helping disseminate throughout
24 the South Coast and about being PEV ready with the local
25 government. And we'd like to extend that to communities

1 throughout the state. So I think that was a cautionary
2 note for us, and you'll be hearing from me more.

3 CHAIRPERSON NICHOLS: Pat, did you want to spend?

4 MR. PEREZ: Thank you, Madam.

5 I wanted to just kind of point out these regional
6 planning grants that we provided to assist regional
7 governments, pleased to say that we've covered most of the
8 state now. I believe we're up to ten agreements. That
9 includes the San Joaquin Valley, the Imperial Valley.

10 And among those agreements, quite a few counties
11 and cities are a part of those. It's quite an array of
12 participants. Even though those maps didn't show a lot of
13 that infrastructure in those regions, we're working very
14 closely. And we will provide technical assistance. We're
15 actually going to be updating our website on the AB 118
16 program to provide better practices and more information
17 for local governments.

18 CHAIRPERSON NICHOLS: I might also speak on
19 behalf of an agency that isn't represented here. But I
20 know that the Governor's Office of Planning and Research,
21 which works primarily with the land use agencies, has done
22 at least one conference and is looking at ways that they
23 can help disseminate some of the kind of technical support
24 that the mayor is talking about.

25 Frankly, I don't think the State ever has done as

1 good a job as it could at working with local governments.
2 I mean, we talk about it. And we have various things that
3 we do, but I'm not sure that we reach as far or as
4 effectively as we could. And I think we could use some
5 help in figuring out what would be the most effective ways
6 to actually be of assistance to the entities that probably
7 do have a lot more direct opportunities to effect where
8 infrastructure goes and how quickly it gets deployed and
9 how cost effectively it's done when the state itself does
10 actually.

11 Other comments down here?

12 Yes, Ms. Berg.

13 BOARD MEMBER BERG: Thank you so much for the
14 time and the effort that you came to give us this update.

15 I really have a keen interest in the electrical,
16 because I'm a Leaf owner, and it has become my primary
17 car. So it's been really interesting and actually
18 somewhat fun trying to figure out how to keep pushing that
19 range.

20 But one of the things that I've learned over a
21 year I've been driving the car is that there is I think
22 lessons learned with the infrastructure and the type of
23 infrastructure. And I was hoping maybe you could speak a
24 little bit about what we're learning and how we might be
25 spending our dollars differently in order to accommodate

1 really the patterns and the uses of what we find.

2 For example, it's really interesting to me when
3 you go to the airports and see the 220 chargers. There
4 probably isn't a car that's there for less than
5 eight hours, if they fly out in the morning and come back.
6 And those that come and charge while they're waiting for
7 somebody, Wouldn't be putting in chargers for that subset
8 group. And yet, we keep seeing more 220 chargers rather
9 than 110. And I'm interested in what your thoughts are.

10 MS. WITTENBERG: I think that's -- you put your
11 finger on a major lesson that's been learned in the last
12 year or so. Specifically, the airport people are saying
13 what are we putting 220 in for? Why not 110? I think
14 they're moving that way, at least their discussions.

15 Certainly for workplace charging, that's been a
16 new way of the workplace discussion. Well, they don't
17 need that much charging if it's topping off and we can
18 accommodate a lot more cars. It's starting to move more
19 into a volume discussion, which you lower costs more.
20 It's not just a pilot of one or two 220 chargers. I would
21 say that the 110 charging discussion is growing every day.

22 BOARD MEMBER BERG: And Pat, maybe you could
23 comment on how do we then look at these lessons learned
24 and then allocate the money in a way to make sure that
25 we're spending it for the most bang for the buck.

1 DR. VELASCO: Thank you for that question.

2 And certainly I was involved in part of that
3 initial infrastructure back in the '90s. I think looking
4 back on the past experiences and one of the key lessons
5 learned is is that you have to have a strong public
6 private/partnership. And you really have to have skin in
7 the game. You can't just be slowly public dollars on this
8 investment. And that is one of the reasons why in many of
9 the competitive solicitations we have at the Energy
10 Commission today we have a 30 to 50 percent matching
11 share. That's less likely that a private company is going
12 to walk away from a joint partnership when they have
13 significant capital invested in these projects. I think
14 that's one of the big lessons learned.

15 And certainly I think we've all gotten better.
16 We have new tools that are available that did not exist
17 back in the early '90s, the great work being done at U.C.
18 Irvine, as well as U.C. Davis with Mr. Sperling's
19 institute and the others. We've come a long way, our
20 knowledge base. There are stronger partnerships in place
21 today that didn't necessarily exist in the past. Got
22 environmental organizations, the workforce, labor, parties
23 all at the table, which I don't recall that being the case
24 back in the early '90s. I think we benefit from that
25 dialogue and bringing in many more diverse stakeholders to

1 the table.

2 BOARD MEMBER BERG: My last question -- oh, do
3 you have something?

4 CHAIRPERSON NICHOLS: No. No. No. I was just
5 going to say we're beginning to get more people coming in
6 because we had indicated 11:00 was about the time we're
7 going to start the next item. We don't have to do it
8 right then, but --

9 BOARD MEMBER BERG: I'll ask one last quick
10 question.

11 Another observation that I have is that with our
12 growing infrastructure -- and we don't have enough -- and
13 the fact that there is the very successful sales of the
14 plug-in, it will be interesting. And I don't know how you
15 address this, Diane, but it's really frustrating as a pure
16 EV driver when you come in and you know that you need that
17 plug in order to make it to the next location and there's
18 cars that are -- being used by cars that have ten miles of
19 electricity.

20 And so it's really going to be interesting to see
21 how the behavior and what becomes acceptable when you have
22 limited charging and a car is apparently finished charging
23 and moving these plugs around. And I don't know what your
24 organization is doing to kind of promote some kind of
25 customer behaviors, acceptable customer behaviors.

1 CHAIRPERSON NICHOLS: Is it acceptable to pull
2 out somebody's plug and put it in your own vehicle?

3 BOARD MEMBER BERG: I've actually left notes on
4 people's cars -- it's interesting -- with my e-mail
5 address saying, "How do you feel about this?" I've never
6 had anybody e-mail me yet. But I'm really interested in
7 kind of the etiquette if you will. What is the etiquette
8 of EV driving?

9 So with that, Madam Chairman, thank you.

10 CHAIRPERSON NICHOLS: Do you have a response on
11 that?

12 MS. WITTENBERG: There's three points to make. I
13 mean, one is signage issue. Last year in the Legislature
14 and continuing in the whole community is the question is
15 it EV parking or EV charging? What is that space for?

16 And then secondly, the way you configure the
17 parking, because even if it's polite to unplug somebody
18 and plug yourself in, it's not always possible. In other
19 words, you don't have an octopus type charging setup or a
20 place where you can physically be next to the plug. That
21 needs to be addressed as new chargers are put in.

22 And the third place is in the absence of official
23 action like this, EV drivers are pretty good. CARB being
24 a very good example that all the EV drivers who park
25 across the street, they have an e-mail list serve. They

1 e-mail one another. "Hey, I didn't get in to get a
2 charge. They were all filled. Is anybody leaving about
3 11:30?" These informal at workplaces networks of just
4 being polite to one another and sharing has really sprung
5 up quite a bit. It's not good enough, but it's a nice
6 start.

7 CHAIRPERSON NICHOLS: Mr. De La Torre, you had
8 your hand up.

9 BOARD MEMBER DE LA TORRE: I went to visit the
10 Fuel Cell Partnership a couple months back. And one of
11 the conversations that we had was that there has been --
12 it gets back to this local government issue -- a very
13 inconsistent experience in terms of permitting/licensing
14 and the facilities in some of these place. Places that
15 you would think would be more sophisticated are not. And
16 places that you would think would be a little suspicious
17 of something as different as hydrogen fueling are good
18 about going through that permitting process.

19 So the conversation that we had was about setting
20 up best practices in the area of the local land use rules
21 for that town, such that we can speed up the locating of
22 these various fueling stations. Has there been any
23 progress on those best practices that could be made
24 available to the League of California Cities and others?
25 And then also the prospective owners of these facilities

1 so they can go and say, look, this is what it looks like
2 when it's done right and quick. So that it isn't just
3 dragging through bureaucracy at the local level.

4 MS. DUNWOODY: I'm glad to respond to that.

5 There is quite a bit of work with best practices
6 with permitting through the Department of Energy. And
7 we've partnered with them on those codes and standards and
8 explaining them to local officials through permitting
9 workshops that we participate in with them.

10 But you're right; it is really variable from
11 locale to locale. What we found is that the most
12 important step is to be in the community early to talk
13 with the local officials and key champions within the
14 community, because we often find that just ensuring that
15 people understand the technology and understand the
16 benefits of it will help them speed the process. And it
17 is really a community by community effort. The majority
18 of our outreach activities focus on those early market
19 communities. And so we are getting progress in that area.

20 BOARD MEMBER DE LA TORRE: Because it is not a
21 statewide issue, just judging by the maps, you can really
22 target it at the Council of Governments level for the Bay
23 Area, for southern California, and go to them and see if
24 they would be your Clearinghouse for these regs for the
25 land use ordinances, whatever they need, and see if they

1 could be the ones who make it available to their members
2 and try to get them all at once, instead of this piecemeal
3 approach.

4 I think there is a way of speeding it up and
5 making it more prevalent out there so that when someone
6 does come along, the regs are already there for them to
7 get there up, somebody up and running.

8 MS. DUNWOODY: Absolutely.

9 CHAIRPERSON NICHOLS: Well, there is a lot of
10 interest on this item on the part of our Board as you can
11 tell. I've been advised I've been spending too much time
12 looking in that direction and not looking in this
13 direction. So I'd like to call on Supervisor Roberts, who
14 represents an area that is at the forefront of electric
15 vehicle infrastructure.

16 BOARD MEMBER ROBERTS: You know, this is so
17 important in San Diego we named our football team after
18 this.

19 I think we're putting our finger on something
20 that is a major problem that hasn't been acknowledged, and
21 that's the time it takes to recharge a car.

22 There is an article in the Wall Street Journal
23 today that talks about precisely this. In California, we
24 put out the very, very few of the quick charge units and
25 relying more on the slow charge units. And I know to try

1 to manage that, especially if you're an employer, you have
2 to move cars -- one parking space can't -- every parking
3 space is not going to have a charger. And there may not
4 be a charger so that everybody who has an electric car is
5 going to have a parking space with the charger. The key
6 is going to be to move these around.

7 And it seems to me a lot of that relies on much
8 faster charging times that are supported by the
9 infrastructure we're putting in. If the gas stations were
10 dependent on us driving and spending two hours to fill up
11 our tanks, I think the business model would change pretty
12 quickly.

13 And yet, we're investing in a lot of
14 infrastructure here that seems to me to be almost
15 obsolete. And it's part of the problem, how do you move
16 cars? You know, if you have to leave it there -- I mean,
17 we try to figure out how are we going to manage even our
18 own parking structure so we can impose rules, so to speak,
19 on employees. How are you going to manage turning those
20 spaces around so that others can get use out of what is
21 relatively expensive equipment that you put in.

22 So I'm not sure what the answer to that is. But
23 clearly more of the quick charge units that we seem to
24 have very, very few of in California and compared to the
25 number of other units. Even compared to other places,

1 which surprised me. I'm just relying on what I read in
2 the Wall Street Journal this morning.

3 The other thing that was not clear to me -- I'm
4 not sure what happens in 2017. All of a sudden, these
5 flat sales start to accelerate in your first early chart
6 that you showed.

7 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

8 CHIEF BEVAN: That's reflective of our expectations of the
9 requirement -- zero-emission vehicle requirement. When we
10 came back to the Board in January, our regulation had
11 taken you to those flat levels in 2017. And what we did
12 in January was start ramping up the requirements from 2017
13 to 2025.

14 BOARD MEMBER ROBERTS: Don't you think the sales
15 should be increasing between now and then?

16 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

17 CHIEF BEVAN: We do. And those sale are generating
18 credits, which the manufacturing are banking. And that
19 will soften their -- and give them flexibility in leading
20 into that rapid requirement increase in 2018.

21 BOARD MEMBER ROBERTS: Okay. So you you're not
22 really expecting it's going to stay flat?

23 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

24 CHIEF BEVAN: No. Those don't represent sales
25 expectations so much as they represent the requirement

1 Expectation.

2 BOARD MEMBER ROBERTS: These charts are
3 requirements?

4 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

5 CHIEF BEVAN: Yes. They're the minimum floor, is one way
6 to look at it.

7 BOARD MEMBER ROBERTS: Okay. I'm misinterpreting
8 your chart. I thought these were projections. These are
9 requirements.

10 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

11 CHIEF BEVAN: Yes.

12 CHAIRPERSON NICHOLS: Okay.

13 BOARD MEMBER ROBERTS: They're not even sales.

14 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

15 CHIEF BEVAN: Yeah --

16 BOARD MEMBER ROBERTS: Somebody has to build
17 these and hopefully somebody is going to come.

18 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

19 CHIEF BEVAN: Yeah.

20 CHAIRPERSON NICHOLS: Supervisor Yeager and then
21 Dr. Sherriffs.

22 BOARD MEMBER YEAGER: Yes, very briefly back to
23 local government. I do appreciate the material that you
24 gave us what the collaborative is doing. And there is the
25 toolkit for community plug-in electric vehicle readiness

1 and giving a full review of the standards and codes and
2 all that.

3 But my question was: Do we know of
4 municipalities that are requiring these plug-in stations
5 with new development? It seems like that would be the
6 time to catch it. Certainly, in the Bay Area, we're lucky
7 that housing starts are beginning again and more
8 construction. So I'm just hoping that this would be the
9 perfect opportunity rather than going back and having
10 incentives for retrofits to put it in as a requirement
11 with construction.

12 MS. WITTENBERG: There has been talk of that at
13 many local communities. I don't know if anybody has --

14 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

15 CHIEF BEVAN: There are several communities that do
16 require at least the installation of raceway or conduit
17 for electric vehicle charging. Davis is one of them. I
18 know that because I live there.

19 BOARD MEMBER YEAGER: It seems --

20 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

21 CHIEF BEVAN: There are for home.

22 BOARD MEMBER YEAGER: It just seems like that's a
23 direction to head because it's certainly a lot easier to
24 put it in when you're constructing rather than
25 retrofitting.

1 MS. WITTENBERG: My staff has says L.A. County
2 also has that as a requirement.

3 BOARD MEMBER YEAGER: I'm going to try to get
4 Santa Clara County to be one of them on your list.

5 With the plug-ins at supermarkets and stores, I
6 guess part of it that gets complicated, you would have the
7 handicap parking and then the plug-in. And then your
8 customers are further and further away. And it could be a
9 little bit of an annoyance to see these empty parking
10 spots and you have to walk. I think it's something else
11 that a store has to consider. And maybe there is a way to
12 have them as part of it. And as there's greater use, then
13 you can merge them into the charging stations.

14 Then my last question is -- I had gone out and
15 toured the Emeryville hydroplant and facility. It's so
16 safe and wonderful. And nothing could ever possibly
17 happen. And then, of course, there was the leak and fire
18 and the whole area evacuated and nobody could fuel up.

19 I'm wondering about safety. And if there is a
20 concern of someone that either they don't want them in the
21 neighborhood or dealing with first responders because I
22 just felt sorry for all the people who needed to fuel up
23 that day and, yet, you couldn't get miles to it because of
24 the accident that happened.

25 MS. DUNWOODY: I'm going to briefly comment. And

1 Analisa may want to add because she's more closely
2 involved in that.

3 I think it points to a learning of needing to
4 have the community well educated and prepared for this.
5 Despite all of our extensive efforts on training first
6 responders, if the people who actually show up at an
7 incident happen to be the one that wasn't trained, then,
8 of course, that can be a concern.

9 But in that incident, what I would say is we've
10 learned quite a bit from that. And I know Linde and AC
11 Transit have been working very hard together to get that
12 station back open and working with the local communities
13 to make that happen. I think Analisa has more to say on
14 that.

15 SUSTAINABLE TRANSPORTATION TECHNOLOGY BRANCH

16 CHIEF BEVAN: Sure. We worked very closely with AC
17 Transit, Linde, and our partners on that incident. And we
18 learned -- and all of the partners have learned some very
19 key items, as Catherine pointed out, making sure that
20 every emergency responder is trained and up to date on
21 procedures in that incident. The command officer was not
22 trained. So his reaction was very conservative, but not
23 necessarily what a trained incident commander would have
24 done.

25 AC Transit learned a lot about their

1 communications protocols from that day, that can apply not
2 just to a hydrogen station, but any sort of incidental
3 incident which might take place with one of their transit
4 bus yards. And they're implementing changes to their
5 emergency communication process as a result.

6 The station -- it's important to note --
7 responded technically exactly as it should have. The
8 emergency release valve failed. There was a release of
9 hydrogen, which ignited. But there were no injuries, no
10 property damage, apart from some bubbling paint on an
11 overhang that was too close to the exhaust pipe. And
12 everything else about the station was isolated and remains
13 safe through the entire incident. So apart from changes
14 to the communications protocols, everything operated as it
15 would have and nobody was in danger.

16 BOARD MEMBER YEAGER: Thank you.

17 CHAIRPERSON NICHOLS: Diane, yeah.

18 MS. WITTENBERG: Thank you. I was just going to
19 respond to your parking in a public parking lot.

20 Plug-in America, which is the biggest
21 consumer-based EV drivers group, they say their position
22 is they would prefer to have these parking lot chargers
23 further out, because they get, as they say, highest
24 internal combustion engine cars park in the more
25 preferable parking spaces. They said, "We would rather

1 have them further out in the field so we actually can
2 charge when we get there." So there is conflicting ideas.

3 And in terms of fast charging -- Supervisor
4 Roberts isn't here -- only some Leafs have fast charge
5 capability. And most of the other cars are not capable of
6 fast charging yet, which is another reason that the fast
7 charge installations have gone more slowly because the
8 standards aren't finalized.

9 CHAIRPERSON NICHOLS: Okay. Dr. Sherriffs,
10 another EV driver.

11 BOARD MEMBER SHERRIFFS: Another happy
12 all-electric driver.

13 A slightly different question. It seems clear
14 that the future of transportation is multiple fuels,
15 different fuels. And I'm wondering what discussions there
16 may have been, whether there is interest in people who
17 have gas stations becoming once again service stations,
18 providing this multiplicity of fuels and what discussions
19 there have been and interest in that.

20 MS. DUNWOODY: I'll start off by stating that the
21 stations that are being deployed today that are in the
22 process of commissioning and planning and being funded
23 today are located for the most part at regular retail
24 fueling stations. So we are seeing a significant interest
25 from the owners and operators of those stations to add new

1 fuels, because they see that over time their business will
2 be declining for gasoline due the rising fuel economy and
3 people driving economic vehicles. And they're interested
4 in new products that will bring people to the station,
5 bring people to the mini-mart and the car washes and also
6 of course the maintain our fuel sales.

7 MS. WITTENBERG: And there's been some interest
8 from gas station owners in putting in fast charge for
9 electricity as well.

10 CHAIRPERSON NICHOLS: I might give a shout out to
11 one company that I know moved to do to California to do
12 multiple fuel that's taken over old gas stations and
13 refurbished them. They still serve gasoline, but also
14 serve other fuels as well. They're serving biofuels and
15 whatever there's a market for basically in collocations.
16 And just trying to make them as attractive as possible and
17 to give customers as much information as possible.

18 I attended an opening of one of their stations
19 along with an Energy Commissioner down in Orange County, a
20 company -- I've forgotten the name -- Propel. There may
21 be others trying to follow that same approach as well.

22 I'm going to give Dr. Sperling, our resident U.C.
23 Davis prof here, the last word on this topic. Since he
24 basically makes his living working in this field, he's
25 going to give some closing comments.

1 BOARD MEMBER SPERLING: So just a few thoughts,
2 kind of pulling this together.

3 I think what we've heard here, this is a
4 tremendously complex process, transitioning to new
5 technologies and new fuels, includes governments,
6 companies, universities, consumers, governments at
7 different levels. I mean, we even get into etiquette
8 here, so that tells you how complex we're getting with
9 this process.

10 But you know, I think what we've heard here is
11 that tremendous effort at working together. The PEV
12 Collaborative and the California Fuel Cell Partnership,
13 they're international leaders in bringing the different
14 parties together and thinking through these issues and
15 coming up with resolutions and ideas and getting people to
16 talk to each other and organizations to work together. So
17 I think, you know, we really need to appreciate and
18 compliment them for that leadership.

19 And it does point out -- I would point out that
20 most of the money for this to happen is going to be
21 private. It's industry business. It's not government.
22 So while government plays an important role in helping
23 kick-start the process, but it's really industry. So we
24 need to keep that in mind when we think about R&D,
25 investment in facilities, and so on.

1 And the closing thought is that California really
2 is leading. And I think that's going to bring a lot of
3 angst, but also going to bring a lot of benefits to
4 California, economic benefits, as well as environmental
5 benefits. And I think we're making good progress.

6 It's not going to be easy. We've heard --
7 everyone has ideas of how to make this work better, and
8 that's great. And that's how it is moving forward.

9 So thanks to -- and having the Energy Commission
10 here represent the State agencies are working together,
11 the PUC as well, not here but has played key role in this.
12 And local governments are playing an increasingly
13 important role. So it's really a great story, but it's
14 just the beginning of the story.

15 CHAIRPERSON NICHOLS: Thanks.

16 Before we take a five-minute break, I want to say
17 two things.

18 First of all, we do allow public comment on items
19 even when we're not taking action on them, as the next
20 item will indicate. And there is one person who indicated
21 he wanted to speak on this item. So Tim Carmichael, give
22 us the plug for natural gas vehicles.

23 MR. CARMICHAEL: Thank you very much.

24 I think this is excellent that the Board is
25 getting briefings like this.

1 I would just also note that there is a lot going
2 on in the natural gas transportation world. And I think
3 it would be good for the Board to get a similar briefing
4 what's going on there. And I would encourage you to try
5 to schedule something like that in the near term.

6 CHAIRPERSON NICHOLS: Thanks, Tim.

7 We do intend to do more of this. This is a first
8 step though I think in bringing everybody up to speed on
9 in what's going on in two partnerships that we're active
10 members of.

11 So with that, we're going to take a five-minute
12 break just for stretches and other personal comfort items.
13 And we will return at 11:15.

14 My plan is that the staff will move briskly
15 through the presentation update. We'll begin public
16 testimony and get as far as we can before a lunch break.
17 We will take a lunch break somewhere in the 12:30 to 1:00
18 time frame. It will be brief because the Board doesn't
19 have an executive session. But we do like to give people
20 an opportunity to have a little food and water in the
21 middle of the day. And then we'll be back and we'll carry
22 on through the afternoon with hearing from people who have
23 come to talk to us.

24 So with that, we'll adjourn and we'll be back
25 starting at 12:15. Thanks.

1 (Whereupon a recess was taken.)

2 CHAIRPERSON NICHOLS: We're now going to turn to
3 the AB 32 update. This is an opportunity for the Board to
4 be briefed on the status of cap and trade regulation that
5 was adopted back in 2009. We've had updates in the past,
6 but this one is moving us further along in the direction
7 of the full implementation.

8 After the staff finishes their presentation, we
9 will begin public testimony. I see that we have, at this
10 point, 66 witnesses who have signed up to speak. I'm
11 going to ask everybody who is around and thinks they might
12 want to speak and hasn't signed up to sign up before noon
13 just so we can have some idea of how long we're going to
14 need to be here. But we've set aside at least four hours
15 for this. So I expect we'll be able to hear from most, if
16 not all, of you.

17 As I said at the beginning, three minutes per
18 speaker. We're going to be posting the list. So I think
19 those of you who were here earlier have seen how that
20 works, and it works pretty efficiently.

21 Before the Board adjourns today, I expect that we
22 will be considering and voting on some kind of a
23 resolution that gives further direction to the staff on
24 various items that are included in the presentation today.
25 But as I indicated, there are no items to be voted on in

1 terms of actual changes to the regulations.

2 I want to take a couple of minutes, though. I
3 don't always do this, but I think in light of the public
4 interest in this particular item, it's worth taking a
5 little bit of time to kind of set the context for what
6 we're doing here.

7 So just to take us all back here, AB 32 was
8 passed in 2006 and signed by Governor Schwarzenegger. The
9 Board adopted a Scoping Plan, which included a reference a
10 market program in 2008. And leading up to that point, the
11 Board had adopted a number of early action measures.
12 Since that time, as I think everybody knows, we have begun
13 to implement every single one of the measures that were
14 called on in the Scoping Plan. And we are clearly on
15 track to meet the goal, which was to get to 1990 emissions
16 by 2020 as a legal target, and then the goal of getting to
17 a reduction of about 80 percent over business as usual by
18 2050.

19 Among the measures that the Board has adopted and
20 implementing, as you heard earlier today, the Advanced
21 Clean Cars Program, which has now been enacted by a
22 slightly different form by the Obama administration, the
23 low-carbon fuel standard, the requirement for electric
24 utilities to obtain 33 percent of their electricity from
25 renewable energy sources, such as wind, solar and

1 geothermal, the requirement for the largest industry to
2 audit their emissions, a mandatory recycling requirement
3 for large commercial facilities, and an array of specific
4 measures targeting some of the chemicals with high global
5 warming potential.

6 We've also adopted a cap -- declining cap on
7 emissions from the largest industrial sources that will go
8 into effect this January, which is to be followed by a
9 further cap on emissions from fuels such as gasoline and
10 natural gas in 2015.

11 While absolutely nothing about this program has
12 been uncontroversial, there was an initiative that would
13 have suspended the program that was on the ballot in 2010.
14 And I think everybody knows that although the recession at
15 that point was in its depths, the measure was rejected
16 overwhelmingly by the voters.

17 And since that time, we have continued to work
18 with those that have sponsored that initiative as well as
19 others to try to bring them into a place where they could
20 be in compliance with AB 32. This has been complicated by
21 the fact that we hear repeatedly from the industrial
22 sector that, while they support AB 32, there has not been
23 a single measure that we've come up with so far at least
24 that they have been in favor of.

25 It reminds me of what we hear at Board meetings

1 when we're looking at rules for cleaning up air pollution.
2 It's sort of the same deal. Everybody is against air
3 pollution, but they just don't happen to like the
4 particular regulation that effects them. And I think
5 that's where we are now at this point with respect to
6 global warming.

7 Certainly, the Cap and Trade Program is the most
8 novel and the most controversial piece of our whole AB 32
9 program. And we've been hearing a lot in the last few
10 weeks, in particular, in newspaper ads and articles and so
11 forth that industry is opposed to the program or if
12 they're not opposed to the program, at least they're
13 opposed to having an auction where anybody would have to
14 buy allowances.

15 Now, one of the things that I think is important
16 to be clear about is that other than electric utilities
17 who are subject to a different regulatory scheme, there is
18 no requirement that any business participate in the
19 auction. The companies that are subject to the rule will
20 get allowances that cover about 90 percent of the
21 greenhouse gases that they are currently emitting for the
22 first years of the program. As time goes on and the cap
23 declines, those who have cleaned up their emissions are
24 going to have extra allowances they can sell. And others
25 who need allowances to cover their operations will have to

1 buy or purchase offsets either from companies that are
2 inside the cap and have extras or from those who are
3 outside the cap who have been able to create offsets by
4 permanently reducing their emissions.

5 So we're going to hear a lot I think about why we
6 don't need an auction, but it's somewhat surprising that
7 at this point it's coming not from those who opposed it in
8 the first place because they wanted regulation as opposed
9 to a market that would have ordered every facility to emit
10 an exactly -- told them exactly what their target was and
11 specified how to do it. But it's coming from actually the
12 same businesses. And in the beginning we're arguing for
13 the largest possible market and now have decided that
14 they're just not in favor of a market after all.

15 I just want to say that over the past five years,
16 the Air Resources Board has met with, listened to, worked
17 with, shaped our program in response to what we've heard
18 from representatives of every single economic sector. And
19 the approach that we came up with, which was to freely
20 allocate 90 percent of the total amount of allowance that
21 were going to be needed as a way of helping with the
22 transition, was something that was created as a way of
23 smoothing and easing the transition into this market.

24 The original proposal, as many people who
25 remember, was actually for something closer to a

1 100 percent auction as a way to quickly start a market and
2 establish the price of carbon.

3 I do want to say that I think that some form of
4 an auction has been shown to be the most efficient and
5 equitable way to create public information about what the
6 actual value of a ton of carbon is and to create an
7 incentive for those who can reduce it more cheaply than
8 whatever the allowance price is, to invest it in
9 technologies that will help them create more allowances
10 that they can then sell into the system.

11 The system rewards those who are the most
12 efficient, but it allows those who can't or don't want to
13 reduce their emissions to keep on operating and to pass
14 the cost of the allowances along to their customers.

15 But knowing the price of carbon allows every
16 facility to make strategic business decisions. As I said,
17 the idea that there would be an auction has been in place
18 since the very beginning of AB 32. And the particular
19 commitment to a ten percent auction has been in place
20 since this rule was adopted in 2009 when we listened to
21 the concerns of the business community and advice of the
22 Governor and others that we should not go too rapidly to
23 anything larger than a ten percent auction, but that at
24 that level there would be small enough impact on the
25 economy and consumers that it was worth it in order to get

1 a meaningful market to emerge.

2 So that's what we've been working on for the past
3 three years. We're coming up to the point where the very
4 first auction is going to happen. And I think that people
5 need to understand that a change to that basic policy
6 decision would send its own signal of instability and
7 uncertainty, not only to the markets, but also to the many
8 companies who have invested here or moved here, as we were
9 discussing earlier, in reliance on the opportunities that
10 they saw in AB 32.

11 There is also a lot of arguments against
12 providing 100 percent of the allowances for free, as the
13 Europeans found out when they started their emissions
14 trading system. It become a windfall for those companies
15 who get them and don't need them.

16 There is also a question of fairness. AB 32 was
17 designed to reduce California's greenhouse gas emissions
18 in a manner that paves the way for a cleaner and more
19 sustainable economy and also to provide benefits to those
20 communities that are already suffering from air pollution.
21 Easing this transition is one thing, but leaving the
22 entire industrial sector outside the arena where every
23 other member of our economy, every other member of our
24 society from the forest products industry to municipal
25 sewage treatment plants is investing and taking steps to

1 reduce their emissions is not a viable option.

2 I think we've gone a long way toward making these
3 regulations as simple and palatable as possible. But
4 we're going to keep on working to improve them to make
5 sure they're as efficient and fair and cost effective as
6 possible. And we will keep on listening. And we will
7 keep on working right up to the first auction. And after
8 that, we'll take the information that we learn and
9 incorporate that going forward as well.

10 But I think, at this point, we really do need the
11 people in the industrial sector to join utilities and many
12 others who have found a way to not only make this work for
13 them, but to join us in helping to make this program work.

14 So with that, I'm going to turn it over to Mr.
15 Goldstene to make the staff presentation.

16 EXECUTIVE OFFICER GOLDSTENE: Thank you, Chairman
17 Nichols.

18 As you know, we've been working to ensure that
19 the Cap and Trade Program gets up and running smoothly.
20 The staff presentation today will consist of two parts and
21 show that we're on track for the November auction.

22 First, staff will provide an update on progress
23 in areas that the Board requested we follow up on at our
24 October 2011 hearing. That discussion will include staff
25 recommendations for fine-tuning the program next year.

1 Second, staff will provide an update on the
2 status of the allowance tracking system and auction
3 platform. This will include our efforts to work closely
4 with stakeholders to ensure they are trained and
5 familiarized with both systems in advance of the first
6 auction. We also will be giving an update on market
7 monitoring and the compliance offset program.

8 I'll introduce Mary Jane Combs and Ashley Dunn
9 from our climate team who will provide the presentation.
10 Ashley and Mary Jane.

11 (Thereupon an overhead presentation was
12 presented as follows.)

13 AIR RESOURCES SUPERVISOR COOMBS: Thank you, Mr.
14 Goldstene.

15 Good morning, Chairman Nichols and members of the
16 Board.

17 This presentation will provide an update on the
18 California cap on greenhouse gas emissions and
19 market-based compliance mechanisms regulation, commonly
20 referred to as the cap and trade regulation.

21 --o0o--

22 AIR RESOURCES SUPERVISOR COOMBS: Today, we will
23 provide an update of work to date on the Cap and Trade
24 Program, followed by an update on the program status,
25 which will include staff proposals to fine tune the

1 regulation. After providing this program update, we will
2 review our implementation activities.

3 --o0o--

4 AIR RESOURCES SUPERVISOR COOMBS: The Cap and
5 Trade regulation was originally adopted by the Board in
6 October 2011. In Resolution 11-32, the Board directed
7 staff to work with stakeholders to investigate issues and
8 to consider potential improvements to the regulation.
9 Since that time, staff has continued to work with
10 stakeholders to address numerous issues. The first part
11 of this presentation will focus on continuing work.

12 Clean-up amendments were adopted by the Board in
13 June and took effect at the beginning of September. Also,
14 in June, staff brought to the Board a preliminary proposal
15 for linkage with Quebec. We will update the Board on our
16 plan for linkage later in this presentation.

17 Starting on January 1st of this coming year,
18 covered entities will be responsible for the greenhouse
19 gases they emit. The second section of this presentation
20 will discuss implementation of activities that will occur
21 between now and this milestone.

22 --o0o--

23 AIR RESOURCES SUPERVISOR COOMBS: Over the past
24 several years, staff has worked with stakeholders, partner
25 agencies, and advisory committees to ensure that the Cap

1 and Trade regulation achieves our emissions reduction
2 goals and treats all entities fairly. There are only a
3 handful of remaining issues. And staff proposes
4 relatively small adjustments to be considered in a
5 regulatory process next year. We will start this section
6 of the presentation by providing a progress report on
7 areas the Board has asked us to follow up on. In some
8 cases, staff is proposing specific actions and we are
9 seeking Board direction on these proposals.

10 --o0o--

11 AIR RESOURCES SUPERVISOR COOMBS: The Cap and
12 Trade Program is designed to achieve lowest cost
13 greenhouse gas emissions reductions. The program gives
14 industry the flexibility to trade allowance with others or
15 take steps to cost effectively reduce emissions at their
16 own facilities.

17 The way we allocate allowances does not directly
18 effect emissions reductions as total emissions are limited
19 by the cap. However, the choice of how we distribute
20 allowances can effect costs and industry competitiveness
21 in important ways.

22 Initially, ARB has chosen to rely primarily on a
23 method of free allocation that provides transition
24 assistance to industry and prevents leakage. In addition,
25 less than ten percent of the allowances will be auctioned

1 at the outset. The auction facilitates price discovery
2 and provides a signal of the actual abatement costs of
3 firms. Auctions allow for transparency in the
4 distribution of allowance value and protect customers from
5 windfall profits that may occur if firms receive free
6 allowances while fully passing through abatement costs in
7 the form of higher prices. Auction proceeds can also be
8 used to reduce the overall cost of AB 32.

9 The specific allocation mix aims to minimize the
10 costs of emissions reductions while protecting California
11 industry and minimizing leakage.

12 --o0o--

13 AIR RESOURCES SUPERVISOR COOMBS: The Cap and
14 Trade regulation's industry allocation is designed to
15 reward early action to reduce greenhouse gas emissions and
16 to ensure that California's industrial sectors maintain
17 competitiveness.

18 The primary determinant for the amount of
19 allocation that an entity receives are the sectors
20 assistance factor, which includes both transition
21 assistance and leakage prevention components and
22 efficiency benchmarks.

23 ARB is working with experts to continue to
24 evaluate leakage risk before allocation occurs for the
25 second compliance period.

1 ARB is also working with experts to develop new
2 and refine existing product benchmarks. It's important to
3 note that assistance factors, which include both a leakage
4 prevention and transition assistance component, are set at
5 100 percent for all sectors in the first compliance
6 period.

7 We have discussed with stakeholders the idea of
8 increasing transition assistance to sectors deemed medium
9 and low risk of leakage. If an increase in assistance
10 factors for these sectors is deemed appropriate, we would
11 do so well in advance of the start of the second
12 compliance period.

13 --o0o--

14 AIR RESOURCES SUPERVISOR COOMBS: Some
15 stakeholders have provided feedback that uncertainty about
16 the resource shuffling provisions in the regulation has
17 the potential to negatively affect energy markets and the
18 reliability of electricity supply. In response to these
19 concerns, ARB will not enforce the resource shuffling
20 attestation requirement during the first 18 months of the
21 program.

22 ARB staff and the Emissions Market Assessment
23 Committee, or EMAC, are considering how to provide
24 additional certainty in how we address electricity leakage
25 risk.

1 The EMAC, which is made up of economists from
2 California universities, will discuss resource shuffling
3 and possible ideas for providing additional market
4 certainty at a public meeting to be held next Monday,
5 September 24th. Staff proposes to return to the Board in
6 October with a recommendation for how we could provide
7 greater certainty to electricity markets.

8 --o0o--

9 AIR RESOURCES SUPERVISOR COOMBS: The Cap and
10 Trade Program is designed to reward entities that have
11 taken voluntary early actions to reduce greenhouse gas
12 emissions. California's public and private universities
13 have been leaders in such early actions. To ensure a
14 smooth transition into the Cap and Trade Program, staff
15 proposes to provide transition assistance to universities
16 in a manner similar to the approach we have taken in the
17 industrial sector.

18 University allocation would be based on
19 electricity and thermal energy production, both of which
20 would be benchmarked. Allocation would decline in
21 proportion to the cap, similar to all other allocation
22 schemes in the regulation. This change would require a
23 regulatory amendment next year, which would be in effect
24 before the start of the second compliance period.

25 --o0o--

1 AIR RESOURCES SUPERVISOR COOMBS: Since 2010, ARB
2 has been working with covered entities that cannot pass
3 through program costs due to a lack of cost receive
4 recovery mechanism and pre-AB 32 contracts. Though many
5 parties have reached agreement about greenhouse gas cost
6 responsibility, there are approximately 17 covered
7 entities with pre-AB 32 contracts that have no such cost
8 recovery mechanism. For these entities, staff proposes to
9 allocate allowances based on production benchmarks.

10 Only entities that signed contracts prior to
11 January 1st, 2007, and whose legacy contracts were not
12 significantly amended after this date would be eligible
13 for allocation. Allocation would only be for that portion
14 of the legacy contracts without cost recovery. Allocation
15 would end when the existing legacy contract ends or is
16 significantly amended.

17 This proposal would require a regulatory
18 amendment in 2013. Some of these legacy contracts fall
19 under the jurisdiction of the California Public Utilities
20 Commission. We will work with the PUC to ensure
21 consistency in how legacy contracts are addressed.

22 --o0o--

23 AIR RESOURCES SUPERVISOR COOMBS: ARB will ensure
24 that proper incentives are in place for combined heat and
25 power. Approximately ten facilities would fall below the

1 25,000 metric ton emissions threshold in the Cap and Trade
2 regulation but for their installation of the efficient CHP
3 systems. These CHP systems produce electricity and
4 provide thermal energy to replace boiler output. Although
5 overall efficiency has significantly increased, the
6 emissions from CHP electricity production pushed these
7 facilities over the emissions threshold for inclusion in
8 the program.

9 Staff proposes that emissions from thermal energy
10 produced by these facilities during the first compliance
11 period would not have a compliance obligation. This would
12 exempt these but for facilities from the Cap and Trade
13 regulation. Because these steam emissions were included
14 in the calculation of the cap, ARB would retire allowances
15 in order to preserve the cap's environmental integrity.
16 This staff proposal would require a regulatory amendment
17 in 2013.

18 --o0o--

19 AIR RESOURCES SUPERVISOR COOMBS: In Resolution
20 11-32, the Board directed staff to work with Cal Recycle
21 to determine the most appropriate treatment of municipal
22 waste under AB 32. This evaluation is ongoing. In the
23 interim, staff proposes exempting the covered emissions of
24 three existing municipal waste to energy facilities.
25 Because these emissions were included in the calculation

1 of the cap, ARB would retire allowances in order to
2 preserve the caps' environmental integrity. This proposal
3 would require a regulatory amendment in 2013.

4 --o0o--

5 AIR RESOURCES SUPERVISOR COOMBS: ARB continues
6 to work with other jurisdictions in the Western Climate
7 Initiative for future linkage with California's Cap and
8 Trade Program to expand both emissions reductions and
9 markets for California's businesses. California continues
10 to work with Quebec to harmonize our two Cap and Trade
11 Programs.

12 ARB released a staff proposal for linkage in May
13 2012. Because budget trailer bill language was enacted
14 that required the Governor to make findings before linkage
15 can take place, the Board did not act on the proposed
16 regulation. Quebec is proceeding with their linkage
17 regulation, which we expect to be finalized later this
18 fall.

19 ARB staff is preparing a request for findings
20 which will be transmitted to the Governor's office this
21 fall. Staff plans to report back to the Board after
22 receiving the Governor's findings.

23 Now I will turn the presentation over to the
24 Ashley Dunn.

25 AIR POLLUTION SPECIALIST DUNN: Thank you, Mary

1 used the track all compliance instruments, allowances, and
2 offsets from issuance to retirement. Because CITS tracks
3 all transactions, including purchases at auction, all
4 auction participants must be registered in the CITS before
5 they can participate in an auction.

6 For entities wishing to participate in the
7 November auction, this means completing the user
8 registration and account application process, including
9 ARB approval in the CITS, prior to the October 15th close
10 of the auction application period.

11 Likewise, all entities and individuals that want
12 to buy and sell compliance instruments in the secondary
13 market must register and have an account in the CITS to
14 have a place to put their allowances and offsets.

15 All account holders in the CITS must complete a
16 "Know Your Customer" check in the user registration
17 process. The Know Your Customer, or KYC, process is used
18 to identify CITS users which protects the system and helps
19 prevent system manipulation and fraud. To date, 600 users
20 have registered in the CITS. ARB has 475 user
21 registrations in-house currently that have been provided
22 and also provided the required KYC documentation to ARB.
23 And about 450 of these have been approved.

24 --o0o--

25 AIR POLLUTION SPECIALIST DUNN: The CITS

1 registration module was released on July 9th. The CITS
2 registration module includes all components required to
3 manage an account up to the point of the account holding
4 compliance instruments.

5 The second CITS release, which includes the
6 training module is scheduled to be available in October
7 2012. The trading module includes all components required
8 to manage compliance instruments for participants buying
9 and selling compliance instruments.

10 The trading module will allow ARB to create and
11 distribute allowances and offsets and will allow
12 participants to transfer the allowances.

13 Prior to each new release of the CITS, the
14 application and the computer systems hosting the
15 application are tested for security by a third-party
16 testing service. This testing process is occurring now in
17 anticipation of Release 2.

18 ARB will provide training on Release 2
19 functionality in the CITS after the second release.

20 --o0o--

21 AIR POLLUTION SPECIALIST DUNN: The Cap and Trade
22 regulation calls for quarterly auctions. ARB has
23 contracted for auction services, including developing the
24 auction platform. The auction platform is an online
25 service that centralized application submittal for auction

1 of reserve sales, bid submittal, determining the auction
2 settlement price, and providing auction and reserve sale
3 results. The auction platform also includes training
4 materials to ensure participants understand the auction
5 process prior to participating in this auction.

6 The auction platform help desk service are
7 available from the auction administrator. The auction
8 platform also includes tools to assist in market
9 monitoring. These tools enable ARB and the market monitor
10 to flag bids if there is a concern regarding manipulative
11 or anti-competitive behavior or a bidding error.

12 --o0o--

13 AIR POLLUTION SPECIALIST DUNN: ARB held a
14 practice auction on August 30th to give stakeholders a
15 chance to try out the auction platform and allow ARB to
16 test systems. The practice auction was designed primarily
17 to introduce entities to the auction and financial
18 services processes and procedures and provide training on
19 auction mechanics in preparation for the November auction.

20 One-hundred-twenty-one qualified bidders applied
21 for and were approved to participate in the practice
22 auction. One-hundred-twelve of these qualified bidders
23 bid in the practice auction, submitting almost 2,000 bids,
24 including bids for the current, 2013 vintage, and advanced
25 2015 vintage auctions.

1 The practice auction gave ARB and the contractors
2 a chance to test the auction, financial services, and
3 market monitoring systems and procedures prior to the
4 November auction. No money or allowances changed hands
5 during the practice auction.

6 The participant feedback on the practice auction
7 was generally very favorable. There was some feedback
8 that made clear where additional outreach and education
9 would be needed for the November 2012 auction.

10 --o0o--

11 AIR POLLUTION SPECIALIST DUNN: On September
12 14th, ARB released the auction notice for the November 14,
13 2012, auction. ARB will be auctioning at least 21.8
14 million vintage 2013 allowances and 39.45 vintage 2015
15 allowances.

16 The number of vintage 2013 or current auction
17 allowances is a minimum number and may increase as a
18 result of additional consignment of allowances. This
19 auction application process and the auction platform must
20 be completed no later than October 15th in order to
21 participate in the November auction.

22 ARB and the auction administrator, along with the
23 financial services administrator and the market monitor,
24 will conduct a bidders' conference and two training
25 webinars to ensure that potential participants understand

1 qualifications for their business operations and staff
2 training can be approved by the Executive Officer.

3 Registry staff completed required ARB-approved
4 training this summer, and ARB is in the process of
5 reviewing their exams. It is anticipated that registries
6 that have satisfied all requirements will be approved this
7 fall.

8 Once the steps are completed, ARB can begin
9 receiving and approving offset credits. ARB is currently
10 completing program, verifier, and registry guidance
11 documents, as well as project-specific guidance in the
12 form of frequently asked questions for release this fall.

13 --o0o--

14 AIR POLLUTION SPECIALIST DUNN: ARB has
15 contracted with an independent market monitor, Monitoring
16 Analytics, to monitor the structure, conduct, and
17 performance of the Cap and Trade Program. The market
18 monitor has worked with ARB on the auction design and the
19 auction platform.

20 Prior to the auctions, the market monitor will
21 review the participant registrations. During an auction,
22 the market monitor will review bidding activity and work
23 with ARB to identify any bidding trends of concern that
24 may indicate manipulative or anti-competitive bidding
25 behavior.

1 ARB is calculating industrial allocations for
2 sources such as refineries, cement manufacturers, and
3 glass manufacturers based on recently verified data and
4 the regulations formulas for facilities receiving
5 product-based allocations.

6 ARB has contacted each covered entity whose
7 allocation relies on energy-based benchmarks to inform
8 them of their allocation of vintage 2013 allowances.
9 Allocation will be completed when 2013 vintage allowances
10 are allocated to the industrial covered entities in
11 November.

12 ARB will also be working with the Governor's
13 Office, the Administration, and the Legislature to develop
14 a strategic investment plan for auction proceeds.

15 --o0o--

16 AIR POLLUTION SPECIALIST DUNN: To conclude, ARB
17 will be ready to launch the Cap and Trade Program. The
18 CITS and the auction platform are being finalized now and
19 have been extensively tested. In addition, allocations of
20 allowances are taking place as planned, and market
21 monitoring systems are in place.

22 We will return to the Board with a final status
23 report in October before the November 14th auction.

24 Thank you. We would be happy to take any
25 questions.

1 CHAIRPERSON NICHOLS: Thank you. I think I'm
2 going to recommend that we take testimony now and have
3 discussion after we hear from at least some of the folks
4 who are out there waiting. So we'll just get started.
5 And I think you can all see the list, but I'll read names
6 also.

7 So first witness is Jessie Cuevas from
8 Assemblymember Perea's office.

9 MR. CUEVAS: Chairman Nichols and members of the
10 Board, Jessie Cuevas on behalf of Assemblymember Perea.

11 Thank you for allowing me the time to speak
12 before you today.

13 The Assemblymember has asked that I deliver
14 copies of a letter sent to the Governor dated August 27th,
15 which was signed by 17 Legislators. The letter expressed
16 his concerns with the proposed Cap and Trade Program in
17 regards to economic leakage. Highlighted in the letter is
18 a recent report by the Legislative Analyst's Office
19 supporting an increase in the number of allowances
20 provided to capped industries and the benefits of these
21 increases.

22 Senator Perea agrees with the LAO and believes
23 that the goals of AB 32 can be accomplished with fewer
24 impacts to the California economy.

25 I have also brought copies of the LAO report.

1 And on behalf of the Assemblymember Perea, I ask that the
2 Board consider increasing the amount of free allowances
3 provided under the Cap and Trade Program in the interest
4 protecting jobs and the economy within the state.

5 Thank you again for your time.

6 CHAIRPERSON NICHOLS: Thank you. And we have all
7 received copies of the letter and the LAO report. Thanks.

8 Now we have a group of ten, as it says here.
9 Maybe there's others -- who all signed up together and
10 wanted to come up together. So please do. And I don't
11 know if you're all planning on speaking, but let's at
12 least identify yourself so we'll get your names. You
13 didn't all get the T-shirt though.

14 MS. BOWMAN: Good afternoon, Congressman Nichols
15 and California Air Resource Board.

16 We can fix this real quick. Two, three, four,
17 five six, seven, nine, ten -- somebody scroll for me --
18 number 11, and 12 is the group of ten so you can scratch
19 them all. And number 8 wasn't speaking anyway. So you
20 get you further down your agenda. So I hope that helps
21 for this afternoon.

22 CHAIRPERSON NICHOLS: Thank you so much.

23 MS. BOWMAN: I'm Lisa Bowman. I'm a USW member
24 of Local 675. To distinguish us from the other red shirts
25 we're all steel workers up here. We also have Local 326

1 out of San Francisco. We're all hourly employees of
2 Phillips 66. Half of us are Los Angeles. Half of us are
3 San Francisco.

4 We have actually united with the Blue Green
5 Alliance, the NRDC, and Phillips 66. We have a common
6 goal. And I know the news media talks about unions and
7 companies fighting. I'm here to tell you today we're not
8 fighting on this issue. We're all on the same accord.

9 With that being said, it's very simple for us.
10 On behalf of the ten united steel workers unions in
11 California itself, we have a few objectives and
12 recommendations for the Board today.

13 We appreciate if you listen to us. We're only
14 going to have I think four speakers, maybe five.
15 California does have a strong tradition of demonstrating
16 that a healthy environment and strong economy can work
17 hand in hand. And we're confident it can do the same with
18 the Global Warming Act.

19 And with that, I will pass it to Mr. Jeff Hall.

20 MR. HALL: Thank you.

21 The first objective we'd like you to consider is
22 use an open and adaptive implementation process, a process
23 that keeps California on track towards building a secure
24 and job-creating low-carbon economy, a process that we
25 would like others to follow.

1 The second objective is to remain committed to
2 adopting additional protections as needed. Our goal is to
3 minimize leakage and maintain a level playing field
4 between in-state and out-of-state refineries.

5 MR. MOTA: I'm Steve Mota.

6 We urge you to prioritize strategies and achieve
7 our emission reduction targets, while retaining good jobs
8 in California. These are jobs that produce, distribute,
9 and deliver fuels to consumers, including jobs in
10 construction, maintenance, and service sectors. For every
11 refinery job, there are 11 other jobs supported.

12 Fourth, to capitalize on new opportunities to
13 create jobs in California. As businesses continue to
14 upgrade their facilities and apply new technologies to
15 operate cleaner and more efficiently. To promote those
16 objectives, we offer the following recommendations for
17 CARB should adopt.

18 MS. MENDEZ: We are concerned that out-of-state
19 refiners will have an unfair advantage because they are
20 not being held responsible for their refinery emissions.
21 Equal treatment between in-state and out-of-state
22 refineries should extend to both finished fuels and
23 intermediate blend stocks. Emissions from imports must be
24 treated just as they would be if the products were
25 produced in California. California refineries need the

1 regulatory certainty that investing in efficiency upgrades
2 is in their long-term interest.

3 CARB should commit to ensure a level playing
4 field is provided before any payment for compliance are
5 made.

6 MR. GAMBA: Working with the Governor, CARB
7 should provide revenues generated under the Global Warming
8 Solutions Act on strategies that will facilitate a smooth
9 transition for the Cap and Trade Program.

10 CARB should provide matching funds or other
11 financial incentives to speed up efficiency upgrades for
12 California refineries. This will lower compliance costs
13 and help provide a fair starting point for businesses to
14 compete. Leverage with private capital revenues offer an
15 additional incentive for companies to keep production and
16 jobs in the state of California and maintain progress
17 towards our environmental goals.

18 Thank you for considering our testimony.

19 CHAIRPERSON NICHOLS: Thank you very much. Very
20 well done. I think your message also has been received
21 because I believe there have been some conversations at
22 the staff level about how to approach this recommendation
23 of yours. There is a concept which is one I know that has
24 been thrown, something called a border adjustment where
25 you do treat fuels the same regardless of where they were

1 produced. And I know that's something that we are very
2 interested in working on with you. So thank you.

3 CHAIRPERSON NICHOLS: Okay. That quickly moved
4 us forward. Alex Jackson from NRDC and Lisa Hoyos from
5 the Blue Green Alliance.

6 MS. HOYOS: Hi. I'm Lisa Hoyos with the Blue
7 Green Alliance. We're an organization of 14 partners, ten
8 of whom are national labor unions, including the steel
9 workers, one of our founding members, along with the
10 Sierra Club and four partners who are leading
11 environmental groups including NRDC, Union of Concerned
12 Scientists.

13 Our organization exists to advocate for clean
14 energy jobs and greening existing industries. This
15 morning, I made a personal pledge to stop saying AB 32 and
16 to start saying the Global Warming Solutions Act. It's
17 three more syllables, but I think it's worth it. And I
18 think a lot of us should consider it.

19 Why? Because every time we say "global warming,"
20 we remember why a republican governor and democratic
21 Legislature passed this ground-breaking rule to begin
22 with. It's been a painful summer. Thousands of farm have
23 lost their crops across this country. Half of our
24 counties are federal emergency areas due the extreme
25 draught. Thousands of homes have been -- hundreds of

1 homes have been lost, thousands families displaced by
2 wildfires; 3,000 heat records broken in the months of June
3 and July alone.

4 Finally, I guess -- floods, severe storms, people
5 are losing lives. You saw it on the news. You all saw it
6 on the news.

7 That's why California is such a leader. We
8 anticipated this was going to happen. We believed what
9 the scientists were telling us.

10 The Global Warming Solutions Act creates jobs.
11 It creates jobs in dozens of industries, as you all know,
12 clean cars, clean fuels, wind, solar. And so in
13 energy-intensive industries, what does that mean? You
14 just heard really smart on-the-job workers, front line,
15 every day saying we can implement this law in a way that
16 maintain its integrity and that also addresses issues as
17 they come up, like leakage, which, Chairman Nichols, you
18 just outlined. There is a border adjustment mechanism.
19 That's a solution.

20 So I just wanted to open by saying we are all
21 about solutions. We'll work with any company. We want to
22 form alliances with people who want to be bold and take
23 leadership and do the right thing visive our children and
24 visive our future.

25 So I just want to set the tone in that way. It

1 will around the clock. We're kind of a maybe surprising
2 alliance, because we are principal-driven to make this law
3 work. Thank you. I'm going to now pitch to my colleagues
4 and Alex and Rick will read the letter.

5 MR. Jackson: Thank you Lisa and Chairman Nichols
6 and members of the Board. Alex Jackson on behalf of the
7 Natural Resources Defense Council.

8 Just to pick up where Lisa left off, you know as
9 a representative of a environmental group, you know, we
10 know this program is only going to be successful if we
11 show it's not an either/or proposition. We need to be
12 reducing our emissions in a way that is maintaining and
13 creating new opportunities for strong economic growth and
14 jobs and encouraging other jurisdictions to act. That is
15 the end game.

16 On that, I think you're going to be reading from
17 a statement we put together. I'll be happy to provide
18 copies to the Board. Got a little marked up in the
19 process, but I will get started and pass it over to Rick
20 from the United Steel Workers and then we will remove
21 ourselves from the microphone.

22 I will just say all three of our organizations
23 have been strong supporters of the law since it passed in
24 2006 and we're worked actively to protect against Prop. 23
25 in 2010. California has shown time and again that a

1 healthy economy, strong environment, work hand in hand.
2 And we see the same opportunity with AB 32.

3 We also share the goals of the cap and trade
4 program to attract even more investment and build on
5 California's position already as a clean economy, clean
6 energy power house.

7 It was said in an earlier forum if you want to
8 work in clean energy, come to California. We're
9 maintaining that strong policy signal to do that. And we
10 see the opportunities both from emission reduction
11 standpoint and a job standpoint.

12 To maintain progress towards those goals,
13 however, we do ask CARB to commit to a really dynamic,
14 adaptive open implementation process. And CARB has done
15 that. In developing this rule over the past six years,
16 it's been incredibly responsive, incredibly open, and we
17 as that continues once the program gets up and running.
18 Because it's not a fixed end game proposition.

19 We have two specific recommendations that was
20 laid out earlier. We do ask to consider making sure we're
21 treating imports the same. Obviously, leakage serves
22 neither economic or environmental goals. We want to make
23 sure we're capturing the same emissions that are faced in
24 the compliance obligation in state as out of state.

25 We also see tremendous opportunity with auction

1 revenues to really accelerate and kick-start those
2 investments that make it easier for companies to comply,
3 reduce emissions at those facilities and get the
4 co-pollutant reductions as well and really can provide the
5 long-term sustainable path we're looking for.

6 I will now pass it over.

7 MR. ALVEZ: Good morning. My name is Rick
8 Alvez.

9 We'd like to thank CARB staff for the commitment
10 to developing the Cap and Trade Program in an open and
11 public process.

12 Going forward, we recommend CARB to establish a
13 process for direct dialect with labor to ensure concerns
14 or questions related to AB 32 implementation so that we
15 can be addressed on an ongoing basis.

16 We look forward to working together to ensure
17 that AB 32 is implemented in a manner that achieves the
18 State's emission reduction goals, retains high quality
19 jobs in California, and creates new jobs in California.

20 Thank you for considering our testimony.

21 CHAIRPERSON NICHOLS: Thank you very much.
22 Appreciate it.

23 I'm sorry if I butcher the next name, Jasmin
24 Ansar.

25 MS. ANSAR: Good morning, Chairman Nichols, Board

1 members.

2 My name is Jasmin Ansar. I'm from the Union of
3 Concerned Scientists.

4 We want to applaud the California Air Resources
5 Board for developing this landmark plan and implementing
6 it finally.

7 The comments I'm going to give will address
8 recent requests by industries to receive more free
9 emission allowances in the Cap and Trade Program under the
10 Global Warming Solutions Act.

11 Let me just stop or preface this by saying the
12 Union of Concerned Scientists both strongly support the
13 notion of investigating border adjustments as a means of
14 mitigating leakage concerns.

15 The CARB Board has already decided to give free
16 allowances to the majority of the industrial sector, as we
17 heard. This is mainly to address leakage concerns. But
18 UCS estimates that the total value of this special
19 handout, at least for the oil refineries and oil
20 companies, will be more than two billion dollars over the
21 three compliance period. This two billion dollar
22 give-away represents a massive transfer of public wealth
23 from consumers to highly profitable oil companies which
24 run the nation's most polluting refineries in California
25 and have made more than one trillion dollars in profits

1 over the past decade.

2 California should make polluters pay for the
3 environmental damage associated with their production,
4 instead of rewarding them with a public handout. I think
5 this can be contrasted with, for example, the electric
6 utilities who will sell their carbon allowances at the
7 upcoming auction. And the revenues from these sales will
8 be used to further the State's climate goals and will be
9 used for the benefit of all Californians to help them
10 mitigate the costs of the program.

11 For the oil companies and other industrial
12 sectors, subsidizing pollution through additional free
13 allowances misdirects these valuable auction revenues to
14 financially benefit these companies and potentially result
15 in windfall profits. Instead, these revenues should be
16 used to benefit all Californians through investments in
17 energy efficiency, renewables, and clean energy
18 technologies.

19 And finally, let me just say that while the
20 majority of California's entities have been preparing for
21 the transition to a low carbon economy, ever since 2006
22 when AB 32 was enacted, for example, the electricity
23 sector has successfully invested in energy efficiency,
24 renewable power resulting in significant emission
25 reductions. And this is demonstrated by the fact that

1 California utilities actually have one of the lowest
2 carbon intensities in the nation.

3 We heard today about some of the clean vehicles
4 and the progress they've made with respect to efficiency
5 in fuel economy standards.

6 I would just say in stark comparison the refining
7 sector over these six years appears to have made little
8 progress. And in fact, a recent report by the Union of
9 Concerned Scientists found that California oil refineries
10 produce more carbon emissions per barrel than those in any
11 other part of the nation. Thank you very much.

12 CHAIRPERSON NICHOLS: Time is up. Thank you.

13 Frank, I'm going to ask your indulgence for a
14 moment here, but you're an economist so I know you'll
15 appreciate the reason.

16 We have two members of our Advisory Committee who
17 have joined us to speak at our request about what they did
18 and what they think about where we are right now as far as
19 the design of the auction is concerned.

20 So I'm going to call Larry Goulder and Tim
21 Bushnell and then we'll get back to you. But they only
22 get their three minutes. So Larry.

23 MR. GOULDER: Thank you very much, Chair Nichols.
24 I appreciate the opportunity to be here.

25 --o0o--

1 MR. GOULDER: I'm a Professor at Stanford
2 Universe. And two-and-a-half years ago, I had the
3 privilege of Chairing the Economic and Advisory and
4 Allocation Advisory Committee to the Air Resources Board.

5 The views I'm going to present now reflect my
6 personal judgment though, and they reflect not only the
7 circumstances back two-and-a-half years ago, but also
8 recent changes to the economy and recent contributions to
9 economic analysis.

10 So if you could next slide, please.

11 --o0o--

12 MR. GOULDER: As the recent Legislative Analyst's
13 Office report indicates both free allocation without based
14 updating and auctioning have virtues. So it's a matter of
15 trying to exploit the best of each.

16 So next slide.

17 --o0o--

18 MR. GOULDER: I believe that the Air Resources
19 Board has struck a good balance between the two. That's
20 based on three considerations. Next slide.

21 --o0o--

22 MR. GOULDER: First, next is industry
23 competitiveness. I do think that industry has reason to
24 be concerned that they're justifiably concerned about the
25 cost impacts of the cap and trade system.

1 Next slide.

2 --o0o--

3 MR. GOULDER: And the use of free allocation
4 through the outbased updating that's part of the Scoping
5 Plan helps preserve this competitiveness and avoid
6 leakage. What it does is implies the kind of subsidy that
7 lowers the variable cost to the most enery-intensive and
8 trade-exposed industries. So the free allocation is
9 targeted to those industries that would be most
10 vulnerable. Next slide.

11 --o0o--

12 MR. GOULDER: And it helps prevent because it
13 lowers the variable cost, the price increases that would
14 otherwise cause the loss of competition and cause leakage.
15 So the most especially vulnerable industries are
16 protected. That raises the question -- next.

17 --o0o--

18 MR. GOULDER: Should we apply free allocation
19 more broadly, given this potential to avoid price
20 increases and to preserve competition.

21 My view is there is problems of applying it more
22 broadly for two reasons. That's the next two
23 considerations.

24 Next.

25 --o0o--

1 MR. GOULDER: The first is fairness. Broader
2 free allocation would often yield windfalls. That's
3 because the value of allowances well exceeds the
4 regulatory cost. So there is one issue of fairness there.

5 Also, broader free allocation would tilt the
6 playing field in the sense that auctioning in contrast
7 allows the auction to go to the highest value use. Free
8 allocation would make it more vulnerable to political
9 influence and affect the playing field that way.

10 And finally, auctioning yields revenues that can
11 have adverse impacts on especially disadvantaged groups or
12 sectors.

13 So for those reasons, I think fairness
14 considerations suggest limiting the use of free
15 allocation, exploiting these advantages of auction.

16 Is this just a zero sum some game?

17 CHAIRPERSON NICHOLS: We're going to give you
18 more time just because you're doing this on our behalf.

19 MR. GOULDER: Okay. Thank you. I was planning
20 on five minutes.

21 Is it a zero sum game? Is it really just a
22 matter that if you give out the allowances free, some
23 industries and sectors benefit by getting these free
24 allowances? If you don't give them out free and you
25 auction, the same allowance value goes to someone else in

1 terms of the auction revenues going to firms providing R&D
2 or firms producing infrastructure or to particular
3 disadvantaged groups. Is it a zero sum game.

4 This is an issue that I don't think had been
5 sufficiently brought out, for example, in the LAO report
6 that it isn't a zero sum game, that, in fact, the overall
7 cost to California would increase to the extent that one
8 relies more on free allocation.

9 I say this for the following reasons -- to
10 restate it: The auction does yield lower cost to the
11 State than does free allocation for the following reasons.
12 It's not a zero some game.

13 The reason is this. An economic analysis has
14 strong consensus on this. But free allocation removes the
15 price signal that prevents prices from going up as much,
16 that on one hand might look great for industry but does
17 have This deleterious implication. It yields a weaker
18 incentive to the ultimate consumer, whether they be
19 industry, residential, or commercial for conservation, for
20 reducing demand for electricity or for various greenhouse
21 gas intents of goods and services.

22 As a result of that, it means when industry needs
23 to meet the cap, given that demand is higher for the
24 products, it has to go through more strain, whether
25 through its fuel switching or end-of-pipe treatment or

1 other, to meet the tough cap because demand is higher.
2 And thus, allowance prices and industry costs would
3 actually be higher because of the fact that demand hasn't
4 been -- there hasn't been the effect of conservation.
5 That's important at least to higher cost.

6 But there is another question. This is my last
7 main point. There is I think a number of analyses by
8 industry groups have questioned whether, in fact, the
9 revenues from the auction could be recycled cost
10 effectively. This brings up the Sinclair paint issue.
11 One of the touted attractions of auctioning is the
12 revenues can be used to reduce the government's need to
13 raise other taxes in order to meet its needs. It could
14 displace the needs to raise ordinary distortionary taxes
15 which cause inefficiency and raise costs.

16 The question then is in the presence of the
17 Sinclair paint ruling, is this potential limited because
18 now the revenues have to be devoted -- has to satisfy the
19 nexus test -- has to be supplied to something that's very,
20 very close to the purposes of AB 32. It can't go to the
21 general treasury.

22 Well, I argue, in fact, the Sinclair paint
23 restriction doesn't have to eliminate this key advantage.
24 It remains possible for auction revenues to reduce the
25 need for ordinary distortionary taxes. The reason is if

1 this money is fungible, if there is a program that would
2 have been financing out of general revenues that has an
3 environmental purpose, now through the auctioning
4 mechanism, there is another source of revenue, which means
5 it doesn't have to come out of the treasury. That means
6 that the treasury has more revenues to use for other
7 purposes or equivalently it doesn't have to raise taxes.

8 So you still have this important benefit of
9 auctioning in that it reduces the government's need to
10 raise ordinary taxes in order to meet its needs.

11 And in fact, the Sinclair paint restriction
12 doesn't entirely eliminate that key advantage.

13 Still, I think it's important -- caveat is
14 important here that it's important to use revenues in
15 efficient ways rather than inefficient ones. Some of the
16 industry commentary I think has a point. It would be a
17 very costly thing if the auction revenues are used in ways
18 that are inefficient. It would be especially useful to
19 devote the revenues to fund projects outside of covered
20 sectors. Not only would those projects lead to
21 technological change and lower cost, but it also achieves
22 an overall reduction in emissions because those sectors
23 aren't under the cap.

24 In contrast, if they used to fund projects that
25 reduce emissions within the covered sectors, since the cap

1 is what determined it's not going to lead to a reduction
2 in statewide emissions, although it may lower cost.

3 So all in all, I will conclude by saying that
4 there are trade-offs here. It's not the case that one or
5 the other approach should entirely take over. It's a
6 matter of balance.

7 My view, having looked closely at the Scoping
8 Plan and the commentary around it, as well as recent
9 economic evidence, is the ARB has done a good job striking
10 a balance. And there is not a good case to be made for
11 relying more on free allocation than is currently being
12 done.

13 I think the current mix of allocation methods
14 helps use free allocation in a productive way to maintain
15 competitiveness, while at the same time relying on
16 auctioning in its most productive way to promote fairness
17 and help minimize statewide cost through auctioning.

18 My view is that free allocation is powerful
19 medicine, but it should be used sparingly. Otherwise, you
20 lose a lot of the important benefits from auctioning.
21 Thank you very much.

22 CHAIRPERSON NICHOLS: Okay. Thank you for
23 coming. Appreciate it. I guess we'll hear also from
24 Professor Bushnell.

25 MR. BUSHNELL: Good afternoon. I had planned on

1 five minutes I'll speak fast.

2 So my name is Jim Bushnell, a professor at U.C.
3 Davis. Like Larry, I was on the EAAC, and I echo
4 everything Larry has just said about the issues.

5 What I wanted to do was highlight a couple of
6 other aspects of the auction versus allocation question
7 that really weren't the focus of the EAAC process. Larry
8 did touch on this somewhat. That's really the role the
9 auction has to play in enhancing the performance of the
10 emissions market itself.

11 There's really two points I want to emphasize
12 here. The first is that, while allocation -- particularly
13 this updated allocation -- has beneficial effects in terms
14 of mitigating leakage, it also has some side effects that
15 Larry touched on. And if we use this -- lean on this
16 mechanism too much, we start to get concerned about these
17 side effects.

18 And the second is I wanted to highlight the role
19 the auction is really designed to play in providing an
20 important buffer to the market and controlling permanent
21 price volatility.

22 So I'll start with the allocation issue.

23 First, it's useful to make this distinction
24 between an allocation just based on some historic
25 benchmark or grandfather, which can provide a windfall to

1 the recipients, but doesn't necessarily affect their
2 incentives to respond to an allowance price, doesn't
3 necessarily change the pass-through of allowance prices to
4 consumer products and so forth, because there's
5 essentially no strings attached to the allocation.

6 And there has been a lot of emphasis in the
7 unregulated industries on this updated allocation process
8 where we are -- the current plan is to reward allowances
9 contingent on some kind of performance metric, like
10 keeping production within California. That has the
11 benefit of providing an incentive to keep the production
12 in California, avoid leakage, as Larry said. But it also
13 has the effect of at least partially insulating the
14 industries and the firms in them from the allowance price
15 itself.

16 And to the extent that we insulate more and more
17 industries to a higher degree from the allowance price,
18 that makes it harder for the allowance price to do its
19 primary job, which is to provide an incentive for firms
20 and customers to take actions to reduce their emissions.

21 So if we push this insulation effect too far, it
22 has a couple bad effects, at least two. It can push the
23 responsibilities for reductions on to the sectors that
24 aren't getting these updated allowances, and therefore,
25 don't have the insulation effect from the price. But it

1 also by making more industries less responsive to the
2 allowance price has the effect of, in essence, making the
3 entire market less price responsive. And in economics
4 terms, we would say the supply of reductions is less
5 elastic. That can raise the overall allowance price
6 unnecessarily. And also, we're concerned it can make the
7 market more volatile because there is less reductions that
8 are responding to changes in the allowance price.

9 So very quickly one second point I want to make
10 is that the auction has been designed to provide a buffer
11 to the market. There are price collars on the emissions
12 market. There is both the floor and a reserve price at
13 which more allowance are meant to be injected. And the
14 auction plays a critical role in providing or withdrawing
15 allowances from the market in response to changes in the
16 allowance price and allows this price collar mechanism to
17 basically function.

18 Without it, it's very difficult to imagine a
19 clean mechanism for which the State could provide
20 allowances and provide this control to the allowance
21 price, absent some kind of allowance mechanism. If all
22 the allowances are already spoken for through some kind of
23 allocation, it's very difficult to adjust the market
24 circumstances and change the distribution or the amount of
25 allowances in response to market prices. And therefore, I

1 think there is an important role for at least a
2 significant chunk of the allowances to be distributed
3 through auctions to provide this flexibility to the State.

4 Thank you.

5 CHAIRPERSON NICHOLS: Thank you. So essentially
6 what you're saying is otherwise you would have to
7 basically print more allowances --

8 MR. BUSHNELL: Or take them back somehow.

9 CHAIRPERSON NICHOLS: Or take them away from
10 people who already have them. Okay. Thank you very much.
11 Appreciate your coming over to share some of the
12 background of your current thoughts on this.

13 Okay, now Frank Harris. Thank you for your
14 indulgence.

15 MR. HARRIS: No worries with that, Madam Chair.

16 Frank Harris again with Edison. I appreciate the
17 opportunity to talk to you again today.

18 The last time I addressed the Board, other than
19 this morning, I was speaking about system testing and
20 market readiness. And since that date, Edison and some of
21 the other stakeholders have worked with your staff to
22 better understand that both the development of the testing
23 of the systems that are needed for the November auction
24 and January 1, 2013, go live.

25 As you mentioned earlier, the utilities are

1 mandated to participate in this auction on November 14th.
2 And where we not -- perhaps I would encourage as an
3 advocate for my employer to set back and let somebody else
4 beta test that system, unfortunately we don't really have
5 that opportunity. So we are understandably nervous about
6 this process.

7 And since the last meeting and this increased
8 communication, all of this has been very well received.
9 Your staff, Rich, Edie, Steve, and everybody has been
10 really great to work with us, and including the meetings
11 that have been facilitated by CCEEB. We've been having
12 these technical meetings, one of which was yesterday. And
13 one would wonder where we would be without those,
14 actually.

15 And I will note that CCEEB is going in pocket on
16 those. And having seen their accounting work, they really
17 can't afford to go in pocket on those. But they are.

18 In any event, these have really increased our
19 awareness of what's been going on. But I think more
20 importantly, they've acted as a way of communicating
21 information back to staff on some short-comings and what
22 we need to see out of this.

23 And so while this improved communication has been
24 helpful for us, I think most importantly it's provided a
25 mechanism to give feedback and provide information on what

1 remains to be done. And obviously, we are still
2 concerned. And we have two key issues that we have
3 consistently advocated and continue to advocate. We feel
4 the practice auction is a really positive experience.
5 Frankly, we want to see another one. We think the lesson
6 learned from the first practice auction need to be
7 implemented and a second practice auction should be
8 developed.

9 Secondly, the testing that we have been made
10 aware of, although very, very good, has not really been a
11 true systematic stress testing that we would like to see.
12 It has been done in a lab type environment, if you will.
13 And we would like to see something that is more systematic
14 end to end that would better mimic a real world
15 environment, because I think you'll find some -- you'll
16 learn from key lessons from that process.

17 In doing that, you're going to make January 1
18 role off much better than otherwise. And happily I'm
19 done. All right. Thank you very much.

20 CHAIRPERSON NICHOLS: Thank very much.

21 Dorothy Rothrock.

22 MS. ROTHROCK: Thank you, Chairman Nichols and
23 Board members.

24 My name is Dorothy Rothrock. I'm with the
25 California Manufacturers and Technology Association. And

1 I also Chair the AB 32 Implementation Group, which is a
2 broad industry group. We have spoken to you many times on
3 these topics.

4 We need to send the message now sooner than later
5 that more allowances will be available to industry in the
6 Cap and Trade Program. 2015 is right around the corner.
7 And manufacturers are making investment decisions this
8 year that are going out three to five years from now.
9 Those capital investments might not happen in California
10 based on the current regulation that does not provide
11 sufficient free allowances. The companies cannot depend
12 on the hope that CARB might provide more free allowances
13 in the future. They're making decisions today, as I said,
14 that are years in the future. As a result, leakage may be
15 happening right now under our noses. And we're not
16 measuring it. We're not seeing it, because these
17 decisions are being made.

18 CARB continues to rely on the fear that windfall
19 profits might be the result of more free allowance. We
20 think the fear is unfounded. We agree with the
21 legislative analyst, and we think the UK experience is
22 irrelevant, because we've got benchmarks set in California
23 that will prevent that.

24 In addition, in closing, based on the
25 presentation we just saw from Bushnell and Goulder,

1 everything they said assumes that we made the right
2 decision with regard to trade exposure and energy
3 intensity. CMTA believes every manufacturer in California
4 is trade exposed, especially since California is the only
5 state going forward with this Cap and Trade Program.

6 When we started thinking about cap and trade, we
7 were assuming we would have a western program and many
8 other states involved. Many of those western states
9 include companies that directly compete with California
10 manufacturers. Not only that, we don't have a national
11 program. That was something we hoped we would have at the
12 national level when AB 32 was passed.

13 For all these reasons, manufacturing large is
14 trade exposed and needs more free allowances. And we urge
15 the CARB Board therefore to make some adjustments
16 immediately to provide more free allowances. Thank you.

17 CHAIRPERSON NICHOLS: Okay.

18 Bruce Ray.

19 MR. RAY: Chairman Nichols, members of the Board,
20 good afternoon. My name is Bruce Ray. I'm with Johns
21 Manville in Denver, Colorado. We are an insulation
22 roofing products and engineer products company. We're, in
23 effect, Warren Buffet's energy efficiency products
24 company. We operate a plant in Willows, about an hour
25 north of here in Glenn County, where we make

1 formaldehyde-free fiber glass building installation. This
2 is used to make homes, offices, buildings, more energy
3 efficient.

4 And we view AB 32 as both a threat and an
5 opportunity. And the threat is that operating costs will
6 increase and increase potentially substantially. But the
7 opportunity is that certainly if you look at the Scoping
8 Plan that energy efficiency in buildings is going to be
9 required and is actually slated to achieve a large
10 percentage of the greenhouse gas emission reduction goals
11 in the statute.

12 And in fact, per the Scoping Plan, I think energy
13 efficiency is slated to achieve more greenhouse gas
14 emission reductions than the 33 percent renewable
15 portfolio standard. So we do see a big opportunity there.

16 And Johns Manville opted into the cap and trade
17 system. And there are two reasons for that. One is that
18 we understand energy efficiency has a big part of the
19 solution in achieving the emission reduction goals.

20 I think we have a role in achieving that energy
21 efficiency measures. And in addition, Johns Manville at
22 our Willows plants, we acted very early on, took very
23 early action to reduce our natural gas combustion and also
24 to reduce our emissions, not only greenhouse gases but
25 other pollutants as well.

1 Our big issue, however, is of that leakage. And
2 the cap and trade regulation put us in a medium risk
3 category and we are not. We are high risk. And we think
4 it's very clear, and it's explained in detail, in comments
5 submitted by our trade association, North American
6 Insulation Manufacturers Association, that if you simply
7 look at a map and you look at all the other insulation --
8 fiberglass insulation manufacturing facilities that are in
9 nearby states that could easily supply the California
10 market, that we're very, high risk.

11 To echo what Dorothy Rothrock said, many of these
12 companies are making planning and decisions now for
13 production for capital expenditures five years into the
14 future. So we really urge the Board to move fiberglass
15 insulation manufacturing to a high risk category.

16 Thank you very much.

17 CHAIRPERSON NICHOLS: Thank you.

18 Bernadette -- I'm going to power through to the
19 end of page one. That's my plan. And then give the Board
20 a chance to ask a few questions of people who have to
21 leave and then take a lunch break. Okay.

22 MR. JACOBSON: Hello, Chairman. My name is Dan
23 Jacobson. I'm sorry to say --

24 CHAIRPERSON NICHOLS: You are not Bernadette.

25 MR. JACOBSON: I'm not. I'll do my best

1 impersonation and try to hit on the points she laid out
2 for me to present here today.

3 Thank you for giving me the opportunity and for
4 giving Environment California the opportunity to testify
5 here. We've got a couple of key points we wanted to hit
6 on, and then I will move off.

7 The first is we think that California should
8 continue to lead both in solving global warming,
9 continuing to be a leader on clean energy. There is no
10 doubt that this is critical for both our environment and
11 our economy.

12 Two is that businesses are already reducing CO2
13 and move into clean energy and saving money. And we have
14 to continue to highlight that. That can be one of the key
15 points that moves us into a much better economic
16 situation. We should be looking at that as much as we can
17 and creating opportunities.

18 Third is that it's critical that California's
19 biggest polluters pay for the right to pollute. And under
20 the auction system, I think there is a couple of key
21 points that really need to be addressed.

22 First is that auctioning is the fairest means of
23 distributing the pollution allowances.

24 Second is that auctioning enables the emission
25 reductions to be achieved at a lower cost to society than

1 if it were given away to polluters.

2 Third is that the auctions can protect the
3 consumers and can maximize the economic benefits of global
4 warming.

5 And fourth is that auctioning allowances
6 encourage a transition to clean energy sources that I was
7 talking about before.

8 Let me just close by saying that this is an issue
9 that's been debated inside the State Legislature, in the
10 courts, on the ballot box, and the ARB has done an
11 excellent process of having an open and excellent
12 hearings. And we think that that's why this needs to
13 continue. We've debated this issue. Let's continue to
14 move forward. Thank you very much.

15 CHAIRPERSON NICHOLS: Thank you.

16 Cathy Reheis-Boyd and then Chris Chandler -- and
17 I'm sorry -- Erica Morehouse. Forgive me.

18 MS. MOREHOUSE: Thank you. Erica Morehouse with
19 Environmental Defense Fund.

20 California is poised to implement a strong and
21 well-defined Cap and Trade Program that will ensure we
22 reach critical greenhouse gas targets and provide benefits
23 to California's environment and economy for years to come.
24 This program strikes a careful balance that will allow
25 both economic and environmental interests to thrive. And

1 though it may not represent the exact program that any one
2 group or stakeholder might design if they had free reign,
3 it does represent a good program that balances the needs
4 of California.

5 The program ensures that polluters will be held
6 accountable for their emissions and incorporates numerous
7 measures that will keep compliance costs in check. Of
8 course, we must continue to monitor this program, as ARB
9 is committed to do, to ensure that goals are met and that
10 balance is maintained. But this program as designed is
11 ready to go and will provide a strong shot in the arm for
12 California's already growing clean economy.

13 Thank you.

14 CHAIRPERSON NICHOLS: Thanks, Erica.

15 Cathy Reheis-Boyd.

16 MS. REHEIS-BOYD: Good afternoon. Cathy
17 Reheis-Boyd, President of the Western States Petroleum
18 Association.

19 I'd like to just start by respectfully
20 disagreeing with the introductory comments made for the
21 section. And frankly, I'm a little disappointed in them.
22 We, as an association, have not been opposed to Cap and
23 Trade. It is the choice of the state of California to
24 pick this market mechanism as opposed to others, like
25 carbon tax. We've been working hard with this agency from

1 day one on this, but we do oppose a Cap and Trade Program
2 that is not well designed, that has huge consequences for
3 jobs and the economy of the state, and our ability to
4 supply adequate, reliable, affordable fuels to the
5 businesses and consumers of the state of California.

6 This is not a one-sided conversation. You have
7 heard from many who have expressed considerable concerns,
8 other experts, the LAO, businesses, legislators, quite a
9 few people who have taken a different opinion on this.
10 And we do not need to take allowances and generate huge
11 revenues from those business who have to make huge
12 investments to meet the reducing cap. That is what will
13 get the emission reduction goals and that is the
14 importance of this program.

15 I cannot believe the inference that billions of
16 dollars that we will invest to make those investments and
17 make those reductions are being referred to as windfall
18 profits free and/or characterized as being hand-outs. I
19 really frankly find that appalling.

20 The resolution today that you have before you
21 recognizes these concerns, but it only recognizes it for a
22 few and doesn't recognize it for the rest of the
23 businesses who are highly trade exposed, as we feel we
24 are.

25 This is not a post-2012. It is not a

1 post-auction issue. It is a now issue. We are
2 encouraging this Board to take a leadership role and to
3 protect jobs to fix trade exposure to minimize cost and
4 prevent leakage, while you're meeting your emission
5 reduction goals, which we totally support doing and will
6 make the investments to do so.

7 I would also like to recognize those in the
8 audience and would like them to stand, if you don't mind,
9 because they traveled a long way across California. They
10 are very concerned about their jobs. And they won't be
11 speaking all individually. I wanted to have them
12 recognized for them being here to express their concern.

13 CHAIRPERSON NICHOLS: Thank you.

14 MR. CHANDLER: Good morning, Chairman Nichols and
15 members of the Board.

16 My name Chris Chandler. I'm the manager of our
17 Phillips 66 refinery complex in southern California
18 located in both of cities of Wilmington and Carson.

19 Like our northern California refining complex,
20 our facility is a uniquely-configured multi-site facility.
21 We have over 1200 employees in the state, 700 of which are
22 represented by the United Steel Workers. Many USW members
23 are here in the audience today, as you heard earlier.

24 I'm here today to continue to express our
25 concerns for some elements of this regulation. We have

1 supported a position that the State should provide
2 100 percent allowances to trade-exposed industries. We
3 have also argued that the auction is unnecessary and
4 premature.

5 The State needs to protect its trade-exposed
6 industries before engaging in an auction. Phillips 66
7 continues to believe in these concepts, but it is clear
8 that the Board does not agree with our position and an
9 auction is set to take place soon.

10 Therefore, Phillips 66 would like to address our
11 immediate concerns in the area of refinery benchmarking.
12 The chosen approach when coupled with the 90 percent
13 sector benchmark results in a double hit to some
14 refineries. The large is large and immediate competitive
15 inequity between refineries.

16 During the October 2011 Board meeting, my
17 counterpart in the Bay Area, Rand Swenson, provided
18 testimony on this exact inequity. We appreciate the
19 action that you, the Board, took at the time directing the
20 staff to address this concern, but the inequity still
21 exists today.

22 Today, we're here to further explain why size and
23 configuration of refinery matters in setting goals to
24 reduce greenhouse gas emissions. Before you is the
25 breakdown of the EII ranges by refinery size and

1 complexity. Red is the range of EIIs. The smaller
2 refineries on the left and the large refineries are on the
3 right. This chart comes from the 2010 Solomon study and
4 includes 21 refineries.

5 As you can see in the chart, the size of the
6 refinery is a key factor in determining its Solomon EII
7 number, much like any other manufacturing industry. There
8 are definite economies of scale.

9 You can see from the chart that the smaller
10 refineries are not and most times cannot be as efficient
11 as the large ones. The green dots and green line is
12 Solomon's way of benchmarking those refineries against
13 refineries of similar size. The approach chosen in this
14 process to benchmark all the refineries against the very
15 largest, and thus creating some inequity.

16 This isn't just a Phillips 66 issue. The
17 unfortunate consequence of this unlevel benchmark means
18 some of the state's largest refineries won't need to
19 purchase any allowances. Others that are mid-size or
20 unique configurations will disproportionately carry the
21 burden of the ten percent sector cut and the benchmark
22 disadvantage.

23 This results in greater than a 20 percent
24 difference in allowance between refineries and transfers
25 tens of millions of dollars out of our local operating

1 budget the first day the program starts. These are
2 diverted from capital investments that could be used
3 instead to reduce emissions and create more jobs in
4 California.

5 We're not against benchmarking, but it needs to
6 be done in a way that reflects the size and configuration
7 differences between refineries. Thank you for the
8 opportunity to speak today. Thank you.

9 CHAIRPERSON NICHOLS: Thank you.

10 I'm just going to say that if you have a hardship
11 because you're going to have to leave early, I would
12 appreciate it if you would talk to the clerk. We'll try
13 to readjust the schedule as best we can for right after
14 lunch. I believe there are a couple of people who thought
15 they were on earlier and can't stay until the very end.
16 So we'll try to do what we can to accommodate anybody who
17 is in that situation.

18 I do want to just give a couple minutes, because
19 I believe we're going to lose Professor Goulder at the
20 lunch break, if people have questions they wanted to ask
21 him, which we should do that now.

22 I guess I have one, which relates to this last
23 issue. Are you familiar with this allocation scheme that
24 effects the refining industry and how that was done, the
25 benchmarking.

1 MR. GOULDER: I must confess, I'm not deeply
2 familiar with that.

3 CHAIRPERSON NICHOLS: Okay. It's interesting
4 historically how that happened because it was they took
5 the whole sector and then tried to basically create sort
6 of an average and then give more to the people who were
7 more efficient or do better for those who were more
8 efficient. Obviously, now those who didn't make out so
9 well want to sort of readjust the way that division was
10 made. The only way to do that is to take away allowances
11 I think from others in the sector, unless you once again
12 take them from somewhere else that doesn't exist.

13 Dan did have a question.

14 BOARD MEMBER SPERLING: Yeah. Could you respond
15 to the concern about trade exposure that Cathy Reheis-Boyd
16 mentioned in terms of have you looked at that carefully in
17 terms of how they've been categorized and how that fits
18 into your analysis?

19 MR. GOULDER: As far as I know, the Air Resources
20 Board had several layers of category depending on the
21 degree of trade exposure and energy intensity of
22 production.

23 And as I understand it, it was based on
24 circumstances not assuming that the WCI would be in place
25 or that a national policy was in place. It does

1 account -- correct me if I'm wrong -- for the fact that
2 California would be acting alone.

3 Now, I think the point is valid that to some
4 extent a lot of industries that currently wouldn't be
5 getting free allowances would, in fact, suffer some
6 competitive disadvantage. It's a continuum. It's a
7 matter of degree.

8 What I would emphasize is to the extent you
9 protect jobs in those industries that have some slight
10 adverse competitive impact, you're also hurting jobs
11 elsewhere in the economy because by the more you use free
12 allowances, the more -- for reasons I gave earlier --
13 you're raising the overall economic cost of meeting the
14 cap. That's likely to have employment impacts as well.

15 So it really becomes a question of whose jobs are
16 going to be protected, not whether jobs as a whole are
17 going to be protected. I'll correct myself on that.

18 In my view, to the extent one is very cautious in
19 the use of free allocation, you're likely overall to be
20 boosting California employment relative to the case where
21 you rely more on free allocation. So the jobs issue goes
22 both ways in my view.

23 CHAIRPERSON NICHOLS: Can I ask sort of an
24 open-ended question, and it's dangerous to do this. But
25 you were one of the original Market Advisory Committee.

1 In fact, you were the Co-Chairman of that Committee back
2 right after AB 32 was passed. And at that time,
3 everybody -- well, most everybody at least was quite clear
4 that a cap and trade system -- they also use the word
5 "well designed" would be the most economically beneficial
6 way overall to achieve the reductions that were called for
7 by AB 32.

8 Do you still feel that way? And do you think
9 that we're on the right track here, despite all these
10 Perturbations and special issues that we have to deal with
11 along the way? Did you anticipate that? Or is that not
12 just something that you deal with the kind of the big
13 picture level?

14 We've spent a lot of time as you well know and
15 very, very detailed efforts to make sure that we've
16 anticipated every possible thing that might happen to
17 every piece of the California economy.

18 MR. GOULDER: My view is that there is a great
19 deal to be gained through market mechanisms and emissions
20 pricing, whether through cap and trade or through a carbon
21 tax. And I think that politically the circumstances were
22 such that cap and trade was a better option for
23 California, partly because cap and trade was already being
24 introduced elsewhere in the world, partly because there's
25 more familiarity and experience with it.

1 So with that said, I think it was and still
2 remains a very good option.

3 I do think some of the luster of cap and trade
4 has been lost as people come to understand it better.
5 First, it might have seemed better that it was in that it
6 wasn't recognized that even if you give out free
7 allowances that at the margin firms are still paying a
8 cost of emissions. Once that was recognized, some of the
9 political backing was lost.

10 But overall, I think there is a great deal to be
11 gained through cap and trade, and it was a smart move for
12 California. And I hope it remains.

13 The larger perspective is this. Using one of
14 these market mechanisms either cap and trade or carbon tax
15 offers tremendous advances rather than full reliance on
16 conventional reclamation. I think we should be happy with
17 either. Given the political circumstance, I think Cap and
18 Trade was a good move.

19 CHAIRPERSON NICHOLS: Thank you. All right.
20 Thanks very much.

21 BOARD MEMBER BERG: Chairman, may I just --
22 Larry, could I ask a follow-up question?

23 Do you believe that had we -- or do you have an
24 opinion if we had gone to command and control rather than
25 a market mechanism that we wouldn't really be sitting

1 talking about the same issues of cost and jobs and the
2 economy in this current climate?

3 MR. GOULDER: You're asking me to be a political
4 scientist rather than an economist. I can speculate.

5 I think one of the advances historically of
6 traditional methods is that some of the costs are less
7 visible that under market mechanism like a carbon tax or
8 cap and trade with auctioning. Because in those other
9 cases, you don't see the cost directly. There is no
10 transfer of funds from the private sector to the public
11 sector in the form of money transfers.

12 So I think that that has been one reason why
13 historically we relied so much on conventional regulation.
14 They've been an easier approach to get through the
15 political filters.

16 I think that's changing. I'd like to think that
17 economic analyses and other analyses have helped indicate
18 that the greater visibility of the cost, it's also the
19 case that the overall costs are lower. So I'm hopeful
20 that over time -- in fact, I'm very confident that over
21 time we're going to see more and more use of these market
22 mechanisms and in particular emissions pricing.

23 CHAIRPERSON NICHOLS: Okay. Thank you so much.

24 Let's take a break. For those who are going out
25 somewhere to lunch, there are a few places that are pretty

1 close by. We should certainly be able to be back here by
2 2:00.

3 (Whereupon a lunch recess was taken 12:54 PM.)
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AFTERNOON SESSION

2:04 PM

CHAIRPERSON NICHOLS: And ready to go. And we're up to on our list to Will Colon.

MR. COLON: Thank you, lady Chairman and Board members.

One thing I'd like to make clear -- I heard someone make a comment earlier today regarding the refineries here in California that they're the dirtiest. I worked at every refinery in the United States. And refineries here in California, take my word, are the cleanest, best managed, and one of the best workforces in the United States.

CHAIRPERSON NICHOLS: I actually didn't hear anybody say that, but it's okay.

MR. COLON: I did.

My name is Will Colon. I'm President of a company here in California called KM Industrial. I'm here today to represent my employees and the employees of my customers.

We have three offices here in California, about 125 employees. I've been here 22 years. So I have roots here in California. We contribute about six to \$7 million to the economy every year, without payroll. So we have a lot of stake here in California.

1 In the past twelve months, I made significant
2 investment in building my business and for the future of
3 the business. I put about two-and-a-half million dollars
4 in in 2011, another million dollars in 2012. And I'm
5 looking at about putting another \$25 million in 2013,
6 depending on how this thing goes here. I'm very concerned
7 because I have a lot of stake in my business.

8 California businesses are facing an increasingly
9 hostile business climate, a climate that leaves many
10 business leaders questioning the wisdom of doing business
11 in California. Wayne and Company completed a study on the
12 competitive viability of business in the Golden State
13 business regulatory climate. The goal of the report was
14 to have access both to the current state and the
15 anticipated trajectory of California competitiveness. The
16 California competitiveness project integrates the depth of
17 economic analysis with the viewpoints of key corporate
18 decision makers and policy experts to provide a clear
19 understanding of the true trajectory of the state's
20 economy and what will improve it.

21 The analysis revealed that the cost of doing
22 business in California is 30 percent higher than average
23 in other western states, and it truly is. I have 33
24 offices in the United States, and the three offices here
25 in California is 30 percent higher than all the other

1 offices.

2 And this being said, California regulatory
3 environment is the most costly, complex, and uncertain in
4 the nation. Chiefexecutives.net has ranked California as
5 the absolute worst U.S. state for business.

6 In order for California to compete in this
7 current environment, we must provide a more free emission
8 allowance to California employers. Cost of doing business
9 in California is already 30 percent higher than any
10 neighbors. The cost of buying emission allowances will
11 force employers to reduce its production as its facilities
12 or even shut down its operation, thus adding more to the
13 California deficit.

14 Once these policies are in place, employers will
15 have to take immediate action in operating its facilities.
16 Companies cannot afford to wait and see how these
17 regulations pan out or how it impacts its bottom line.
18 The immediate impact will be to reduce costs by slashing
19 payroll. This will put more strain on California's
20 deficit.

21 We can meet our emission goals without an auction
22 and free allowances will prevent environment leakage.

23 CHAIRPERSON NICHOLS: Can you wrap up, please?

24 MR. COLON: It's important that the overall
25 impact of all business-related legislation be carefully

1 considered by analyzing and assessing the impact of these
2 legislative proposals on business climate in California
3 and how it effects the livelihood of its population.
4 Please do not put Californian jobs at risk for no reason.
5 A strong California is a working California. Thank you.

6 CHAIRPERSON NICHOLS: Thank you.

7 MR. BALIK: Madam Chair and Board, thank you for
8 the opportunity to speak.

9 My name is Randy Balik, and I work with a few
10 different companies. The one I'm representing here,
11 Beacon Environmental Energy. We are a small business out
12 of southern California that services 100 percent of
13 petroleum industry.

14 Incidentally, I also have a renewable energy
15 business. And so both of these two are
16 environmentally-focused businesses. So when you listen to
17 me talk about this issue, I'm actually talking about it
18 from the terms of someone who is pro-environment, but
19 also, for lack of a better phrase, pro-logic.

20 My company, Beacon Energy Services, has 45
21 employees. We've been growing through the last four years
22 of this tough economy. I am the face of small business.
23 Right now, this Cap and Trade Program is putting an entire
24 sector of small businesses at risk. And I'm not one to
25 say put jobs ahead of anything else. But in this case, we

1 have to put jobs first. We can sustain the environment.
2 We can sustain our resources, but we've got to look at
3 jobs in our economy here in California.

4 I believe in environmental preservation. If you
5 just look at the business I'm involved in, but I also
6 believe that environmental preservation has to be done
7 with logic, good sense, and equality. If CARB does
8 doesn't modify its current course and help heavy industry
9 at least in the near term, small businesses like mine will
10 have two choices: Either leave California or close down.
11 That's it, period. When I say "near term," if you look at
12 the industries we service, such as the refining industry,
13 they plan years in advance for major capital improvements
14 and capital investment. These programs we have put forth
15 here don't allow them to do that. That goes straight down
16 the line to companies like mine. If they can't plan, if
17 they can't invest, if their future is uncertain, so is
18 ours.

19 As I said before, my company is hiring. We're
20 growing. But I've got 45 employees whose lives are
21 literally at stake depending on what we do here.

22 So please do the right thing. And by right, I
23 mean find the sustainable balance so we can protect both
24 the environment and California industry. We can do this
25 by offering more free emission allowances. And I urge you

1 to consider that. Thank you.

2 CHAIRPERSON NICHOLS: Thank you.

3 Dan Hoffman.

4 It's not against the rules to applaud either. It
5 just cuts into people's time.

6 MR. HOFFMAN: Good afternoon, Madam Chairman.

7 My name is Dan Hoffman. I'm the Executive
8 Director for the Wilmington Chamber of Commerce. I thank
9 you for giving me a little time this afternoon.

10 There was a question that was brought up earlier.
11 It's a matter of jobs, but whose jobs do we protect. As
12 the Director for the Wilmington Chamber, I'm here to tell
13 you this afternoon I'm here to protect Wilmington jobs,
14 protect Carson jobs, to protect jobs in the South Bay.

15 In Wilmington, we have three refineries, Vallerio,
16 now Phillips 66. We used to be Conoco Phillips and
17 Tesoro. They provide thousands of direct jobs and tens of
18 thousands of indirect jobs. They're crucial to our local
19 economy, to our restaurants, the stop and go. They're
20 crucial to our non-profits, who I think could very well
21 collapse if even one of them were to go away.

22 They're crucial to our projects because they have
23 thousands of hours that are volunteered year after year
24 toward local schools to tree plantings.

25 Our California refineries, according to the South

1 Coast AQMD, are the cleanest refineries in the world.
2 That's something we should be proud of. It's something we
3 need to protect. And according to the study that was done
4 by the California legislative office -- not the study, but
5 their comments, an allowance is unnecessary in meeting the
6 AB 32 goal of reducing greenhouse gas emissions.

7 And so I hope and I believe all of you want to
8 protect jobs and that you want to protect the environment
9 and we want the same things and working together we can do
10 that. Thank you.

11 CHAIRPERSON NICHOLS: Leonard Robinson. Is Mr.
12 Robinson here?

13 No. Okay. Lori Bateman.

14 MS. BATEMAN: Good afternoon. Thank you for
15 having me.

16 My name is Lori Bateman. I'm a single mom from
17 Benecia. I'm not anti-environment. I have been
18 environmentally conscious since I was five-years-old,
19 because having been raised by hippies.

20 I support being green as much, if not more, than
21 most. But I strongly oppose the current implementation of
22 California's AB 32 law.

23 I've been working in refining operations for
24 nearly 24 years. I'm well aware that California refiners
25 are world leaders in emissions reduction.

1 As a resident, I appreciate the efforts to do our
2 part in climate change. However, I do not support
3 jeopardizing California jobs for what will likely be a
4 negative effect on our climate.

5 In calculating the effectiveness of AB 32, the
6 State cannot take credit for emissions reduction as the
7 result of a loss of a California refinery being shut down.
8 California refineries are already some of the lowest
9 emissions in the world. And the loss of reduction just
10 means we have to make up the difference with foreign fuel
11 from states or countries that don't have our strict
12 environmental regulations. And last time I checked, we
13 were all on the same planet.

14 You said to Conoco you would support holding
15 out-of-state refiners to the same standards. How are you
16 going to do that? Prevent imports? Not let people bring
17 their fuel in?

18 If AB 32 is so expensive it causes California
19 refiners to leave, not only will it have a negative impact
20 on the environment, it will have a devastating impact on
21 the economy. Not only will jobs be lost, but communities
22 where refineries reside will experience a financial
23 collapse, from the loss of tax revenue that the refineries
24 provides as well as support for the community programs
25 that receive both money and volunteers.

1 And I'm going to go away from my speech for a
2 second, because I found this in my mail yesterday. It's
3 the quarterly newsletter from the Contra Costa and Solano
4 Food Bank, which I would be there today volunteering, but
5 I'm here instead because we help every third Thursday of
6 the month. I decided to look at the list to see if Valero
7 is on the list. That's the company I work for. Not only
8 is Valero on the list, so is Chevron, Tesoro, Shell,
9 Phillips 66, and the Dow chemical company. And not only
10 are they on it, there's Contra Costa Electric, PGE, Biggie
11 Crane, and Air Products, all companies that also we
12 support. They support us, and we support each other in
13 the California economy.

14 My co-workers and I are very afraid that
15 California will tax our employer right out of business and
16 our families and communities dependant on our industry
17 will suffer for nothing. If you don't think it can
18 happen, consider this. Last time I was here, there were
19 about 50 people from the refineries formerly known as
20 Conoco Phillips, now Phillips 66. They were here because
21 they were afraid. One of the Board members remarked that
22 Conoco Phillips made \$14 billion last year. Why can't
23 they invest some of it in the environment? What happened?
24 Conoco Phillips left. They cut their refinery loose and
25 took their \$14 billion to Texas with them.

1 The writing is on the wall that they are
2 positioning to be able to close business in California.

3 CHAIRPERSON NICHOLS: Thank you.

4 MS. BATEMAN: And that will be devastating to the
5 employees --

6 CHAIRPERSON NICHOLS: I believe the company was
7 purchased by another oil company; isn't that correct?

8 MS. BATEMAN: No.

9 CHAIRPERSON NICHOLS: That doesn't count?

10 MS. BATEMAN: They weren't purchased by another.
11 They just made the refinery a separate entity?

12 CHAIRPERSON NICHOLS: They cut the company loose.
13 Thank you.

14 Mr. Robinson.

15 MR. ROBINSON: Okay. Chair Nichols and Board, my
16 name is Leonard Robinson. I'm on the Board of the
17 California Black Chamber of Commerce also Chair of their
18 Energy and Environmental Committee.

19 Things will change when the pain of staying the
20 same is greater than the pain of changing. And AB 32 is
21 one of those things of changing because there was a lot of
22 pain. It's already having positive impacts in California.
23 So let's move ahead. Perfection is the enemy of the good.
24 You can perfect, perfect, perfect, by the time it's too
25 late.

1 Carbon markets put a price on inefficiency and
2 shifts spending from polluting to clean goods and service.
3 The long-term financial benefits will mostly exceed the
4 short run implementation cost.

5 Now I speak from experience. I spent 14, 15
6 years at a steel mill, 14 years we were very profitable.
7 The only year we weren't profitable had nothing to do with
8 environmental regulations. It was just the energy issue
9 and labor issues.

10 We are on the right track. Our economy still
11 ranks sixth, seventh, eighth in the world. The AB 32
12 design will allow California's most innovative firms to
13 benefit from the clean tech investment.

14 AB 32 -- and I call it AB 2. I was there that
15 cold day on Treasure Island when the Governor signed the
16 bill. I still remember he said, "We're going to eliminate
17 global warming." At the time, warming was a good idea
18 because it was a cold day. It's a powerful engine of
19 innovation in California critical to the creation of a
20 vibrant clean sector to the growing efficiencies savings
21 for small main stream businesses. AB 32 is not one
22 policy. It's a portfolio of strategies to transition
23 California to the green energy economy.

24 Now, industry -- various industries have a long
25 history of claiming that any given regulation would drive

1 them out of business. I know everybody here is too young,
2 but I remember the Clean Air Act, the Clean Air Act
3 amendments. I remember the Clean Water Act. I remember
4 TOSCA. I remember the Resource Recovery Act. And I
5 remember all these acts. And that was going to drive
6 business out, and we were all going to go to an economic
7 Armageddon.

8 You know what? Right now, the way things are
9 going, we are already in an economic Armageddon. It has
10 nothing to do with AB 32. I think AB 32 is one of the
11 tools that will bring us out.

12 When an industry operates in a perfectly
13 competitive market otherwise, there is always the
14 potential for windfall profit and free allocation.
15 Environmental regulation, particularly with market-based
16 approach, is mainly served to move spending from polluting
17 to clean goods and services.

18 In summary, AB 32 is one of the few pieces of
19 regulation that address disadvantaged communities at the
20 front rather than a reaction at the end. So the
21 California Black Chamber of Commerce in the beginning
22 weren't supportive of AB 32, but as we had dialogue and,
23 Chair Nichols, you met with the President Aubrey Stone, we
24 had a dialogue and there was an understanding.

25 So the California Black Chamber supports AB 32

1 cap and trade. And we're working with the Governor's
2 office for two items if he signs will help California keep
3 their promises to disadvantaged communities. Thank you.

4 CHAIRPERSON NICHOLS: Thank you. Appreciate
5 that.

6 Morgan Hagerty.

7 MS. HAGERTY: Good afternoon. And thank you for
8 the opportunity to speak today.

9 My name is Morgan Hagerty with CE2 Carbon
10 Capital.

11 CHAIRPERSON NICHOLS: You need to speak closer to
12 the mike. I'm sorry.

13 MS. HAGERTY: Sure. Is that better?

14 CHAIRPERSON NICHOLS: Yes.

15 MS. HAGERTY: CE2 is a San Diego-based company
16 that develops and invests in carbon offsets and renewable
17 energy projects. We applaud the Board and ARB staff's
18 tremendous efforts to date and strongly support a
19 market-based solution to achieving our state's AB 32
20 targets.

21 While we understand that ARB is focused on
22 launching the first auction in November, it is important
23 not to overlook the time sensitivity of approving new
24 offset protocols.

25 We are concerned about the potential offset

1 shortage that has been forecast by multiple independent
2 analysts, including a report recently released by the
3 American Carbon Registry. As an offsets investor, we have
4 firsthand knowledge of the time it takes to develop
5 eligible projects. And we agree with the conclusion that
6 offsets supply is unlikely to meet demand in the first
7 compliance period and through 2020.

8 Offsets were included in the program as a cost
9 containment measure. In order to be effective as a cost
10 containment mechanism, there must be a sufficient supply
11 of offsets. ARB and WCI's own economic analyses indicate
12 that allowance prices will be very sensitive to an
13 adequate supply of offsets. The issuance of offset
14 credits is not a switch that can be flipped to add
15 immediate supply to a short market. If new protocols are
16 not brought to the Board for approval until the end of
17 2013 as was indicated last week, the signal to the
18 investment community will not be sent in time to trigger
19 the issuance of substantial offset credits from new
20 protocols before the first in November of 2015. This will
21 lead the higher compliance costs for California businesses
22 and rate payers.

23 We encourage the Board to improve new protocols
24 this year, to focus on existing protocols with
25 environmental integrity and high volume potential.

1 We request that the Board ensure the evaluation
2 process is highly transparent and provide an update on
3 offsets at the October Board meeting next month.

4 To address the forecasted offset supply shortage,
5 we ask the Board to promptly evaluate the coal mine
6 methane and early action landfill gas protocols to
7 reconsider the pneumatic valve protocols and to remove the
8 Hawaii and Alaska exclusions forestry projects in light of
9 the recent data provided to ARB staff by the U.S. Forest
10 Service.

11 We appreciate how hard the Board and staff have
12 worked and recognize that you have a very, very full
13 plate. We make these requests to ensure the program is
14 able to rely on offsets for cost containment. Thank you
15 very much for your time and consideration.

16 CHAIRPERSON NICHOLS: Marlia Maples.

17 MS. MAPLES: Good afternoon. I'm Marlia Maples.
18 I'm the owner of a woman-owned owned business, TJM
19 Distribution in Bakersfield, California. I'm past
20 president to the Ladies Auxiliary of the VFW Post 10859.
21 Today, I'm here representing myself as well as Jake
22 Aldred, commander of the El Camino Post of the American GI
23 Forum.

24 Times are tough all over, but they're especially
25 tough for our veterans. We cannot afford regulations that

1 will make it harder for our veterans.

2 To support improving our -- we support improving
3 our environment and our economy, but a Cap and Trade
4 auction will not accomplish these goals and could set us
5 back. The Legislature's analysis report that an auction
6 is not necessary to achieve the emission reduction goals
7 of AB 32 and could instead obstruct these reductions by
8 causing leakage to other states.

9 The auction could also cause businesses to close.
10 We view the fight against global warming in military
11 terms. When you plan for a battle you ask yourself: What
12 is the objective? What is the cost? Will the outcome be
13 worse the cost?

14 A cap and trade auction will not advance the
15 objective of emission reductions and may, in fact,
16 compromise the mission. It will cost millions of dollars
17 as well as lose businesses, jobs, and revenue. Clearly,
18 the outcome will not be worth the cost.

19 TJM Distribution and the American GI Forum does
20 not want our veterans or anyone else in California to
21 suffer damages in this unnecessary auction. Either
22 increase the free admission allowance or delay the cap and
23 trade until you can come up with a cost effective winning
24 strategy.

25 Thank you.

1 CHAIRPERSON NICHOLS: Thank you.

2 Mike Robson and Jose Duenas.

3 MS. MAZUR: Madam Chair, Board members, thank you
4 for this opportunity. My name is Nicole Mazur. I'm here
5 representing the Valley Industry and Commerce Association
6 and the 100,000 businesses and 1.8 million residents of
7 the San Fernando Valley.

8 VICA strongly supports giving additional emission
9 allowances to California's top employers and economic
10 drivers in order to ease the impact of instituting a cap
11 and trade auction. The auction will have significant
12 impact on California's employers, forcing them to cut back
13 on other expenses beginning with payroll and an increased
14 customers price.

15 We urge the Board to make responsible planning
16 decisions rather than waiting to see how the auction hurts
17 employees and customers. It is worth noting that the
18 Legislative Analyst found our state can meet its emission
19 goals without an auction, yet the business community is
20 willing to accept the decision of this Board to move ahead
21 with the auction.

22 We simply ask for measures to ease this economic
23 impact. VICA strongly urges you to approve this proposal
24 for transitional assistance. California cannot afford to
25 fulfill its environmental targets at the expense of its

1 economic goals. Thank you.

2 CHAIRPERSON NICHOLS: Thank you.

3 Mike.

4 MR. ROBSON: Good afternoon. Mike Robson here on
5 behalf of the Glass Packaging Institute.

6 Glass Packaging Institute is the association of
7 the five glass container manufacturing plants in the state
8 of California. There are 2600 union workers.

9 I've testified here at this Board before on this
10 matter on the issue of the glass container industry's
11 benchmark. And GPI is still seeking a change in the
12 emissions benchmark for the industry. GPI doesn't believe
13 the consistent benchmark properly addresses the early
14 action the industry has taken to reduce emissions. And as
15 a result, it doesn't -- the benchmark doesn't help to
16 minimize the risk of leakage in this industry.

17 As you guys know, the credit for early action and
18 minimizing leakage is both a mandate of AB 23.

19 So I really want to quickly just describe what
20 the industry's early action has been just so that's out
21 there.

22 Over the years, over the last 20 years, GPI
23 member companies that pay millions of dollars in fees to
24 the state to support the state's recycling infrastructure
25 to support the State Bottle Bill. The success of

1 California's recycling law has resulted in millions and
2 millions of pounds of recycled glass being put back into
3 the glass plants to make new glass bottles. And the use
4 of this recycled glass lowers the emissions from
5 manufacturing new glass bottles much lower than the use of
6 raw materials.

7 And so the benchmark -- in order to get credit
8 for this early action, what CARB -- what we believe CARB
9 needs to do is compare the California glass plants, which
10 are among the most efficient in the world, with other
11 glass plants in the nation. Or at the very least compare
12 use data -- use emissions data from the California glass
13 plants that are other than the 2009 data that's currently
14 used for the existing benchmark. If you use data that
15 goes back further than 2009, you would then have an
16 ability to measure the early action. 2009 was a peak
17 year. It was a high year for the use of recycled glass in
18 California.

19 So we're hoping that coming here today and see
20 the staff report that the staff would talk a little bit
21 about the efforts that they've been undergoing with the
22 industry to adjust the benchmark. There is a note on the
23 six page on the -- sixth slide I think of the continued
24 work on benchmarks, and we appreciate that. We're hoping
25 that the information we're getting today and our continued

1 work with the staff that in the future meeting there will
2 be a resolution to direct the staff to adjust our
3 benchmark.

4 CHAIRPERSON NICHOLS: Thank you.

5 Jose Duenas.

6 MR. DUENAS: Good afternoon, Madam Chair and
7 members of the Board. My name is Jose Duenas. I'm the
8 President CEO of the Alameda County Hispanic Chamber of
9 Commerce representing over 18,000 hispanic owned firms.

10 Our members support the goals of AB 32. We would
11 like to support the cap and trade, but believe the program
12 as planned is seriously flawed and is contrary to AB 32's
13 goals. AB 32 specifically requires that greenhouse gas
14 emissions and reduction policies maximize emissions
15 reductions and maximize costs.

16 The cap and trade auction does neither.
17 According to the Legislative Analyst, auctioning emissions
18 allowances instead of providing them for free will cause
19 economic and environmental leakage. In other words,
20 increase cost to the point where businesses close down,
21 down size, or relocate to other states.

22 An auction would encourage large industries to
23 shift production to other states where air quality
24 regulations are not as tough, which we would, at best,
25 keep emissions at the same level and would increase them.

1 Also, according to the Legislative Analyst, an
2 auction is not necessary to meet the emission reduction
3 goals of AB 32. The purpose of AB 32 is to reduce
4 greenhouse gas emissions and not raise revenues for the
5 government or to make it difficult, if not impossible, for
6 many businesses to survive here.

7 If the goal is reducing emissions, we should do
8 it with a Cap and Trade Program with 100 percent free
9 allowances. Throughout the state of California, we have
10 over 600,000 hispanic-owned business that represent \$90
11 dollars in revenue. I hope that you keep that in mind,
12 because some of those businesses might not be around.

13 Thank you.

14 CHAIRPERSON NICHOLS: Thanks.

15 If you can look up on that chart there and see
16 that you're going to be next, we could hear more people if
17 whoever is next would be ready on that to stand up and
18 speak. Thanks.

19 MR. EISENHAMMER: Good afternoon, Chairman and
20 members of the Board.

21 I'm here representing the Coalition of Energy
22 Users, which is a nonprofit advocate for affordable energy
23 and job creation. We represent 5,000 Californians, 40
24 percent of whom are small business owners.

25 It was mentioned earlier that nobody needs to

1 participate in the carbon auction. But if the
2 technologies to comply do not exist or if you can't afford
3 them, then a struggling small business owner does need to
4 buy credits. However, based on the earlier comments and
5 those of the professor, it seems as though you have
6 already made up your mind that more free allowances are
7 not on the table. If that's the case, why don't you just
8 say so and not give these good people who took a day off
9 from work false hope.

10 CHAIRPERSON NICHOLS: What small business owners
11 are going to have to buy allowances under this program?

12 MR. EISENHAMMER: Small business owners who are
13 not able to afford to comply with the program.

14 CHAIRPERSON NICHOLS: What are they subject -- if
15 they're not under the cap, they don't have to have any
16 allowances at all, small businesses owners. We're talking
17 about the firms that are actually subject to the cap and
18 trade allowance requirement. How many firms is that
19 again, staff?

20 About 500 businesses in the state of California.

21 MR. EISENHAMMER: I hear of businesses leaving
22 the state every day.

23 CHAIRPERSON NICHOLS: It's possible that that's
24 true, sir. But if you're an advocate for those businesses
25 and you're telling them that they're going to have to buy

1 allowances or hold allowances when they're not subject to
2 the rule, you're not doing them a service.

3 I'm not trying to argue with you about whether or
4 why people decide to do what they do. But we're here for
5 an update on a rule that is in existence right now and not
6 to do anything at the moment, as we said at the beginning,
7 about the rule.

8 So we've been discussing this rule now for
9 several years. And I think it's been clear all that time
10 that the Conoco Phillips people are subject to the rule.
11 They know they're under the cap. They know who they are.
12 People who are not subject to the cap aren't under this
13 rule. So they may not like it for some other reason
14 because they don't like having anything happen about cap
15 and trade. But they're not subject to this requirement.
16 They are not in the auction. They don't have to hold
17 allowances, whether they get them for free. If we were
18 giving out allowances here today, they wouldn't be getting
19 them because they're not part of the Cap and Trade
20 Program. Okay. Thanks. All right.

21 Mr. Newell and followed by Mr. McIntyre.

22 MR. NEWELL: Madam Chair and Board, thank you for
23 hearing me today. I work with Guardian Industries, Corp.
24 We're the largest glass producer in the United States. We
25 operate a glass plant in Kingsburg, California and a

1 molecular coater.

2 We started major investments toward cleaning up
3 greenhouse gases in 2003, including the opening of an
4 molecular coater in 2004. Even though the coater uses
5 about 5,000 tons worth of electricity in terms of carbon,
6 it's reducing 500 times that in your businesses, in your
7 homes, and in diverse products. Okay.

8 So few years later, we were planning for five
9 years to do a major repair on the facility in 2008, the
10 cost of \$120 million. During that repair, we had already
11 set our sights on reducing our CO2 emissions, and we set a
12 brand-new BACT standard for the glass industry. Some of
13 our competitors aren't happy about that because we blew
14 through the existing standard and cut it more than by
15 half.

16 So we're the cleanest glass plant in the
17 United States right now. Yet, the 44 percent reduction in
18 CO2 emissions achieved in that cold tank repair in 2008
19 are not recognized. And we were shocked when we found out
20 our base line, our benchmark, put us in an awkward
21 position where we were going to have to buy greenhouse gas
22 credits. We did a little investigation and we uncovered
23 some very disturbing facts. We made that known to staff,
24 and we will continue to work with staff at trying to
25 correct that benchmark.

1 But, the fact remains, moving forward, we have
2 already installed the technology, and there is no current
3 technology to take us down lower. As this cap gets
4 crunched down on us into the future, we have typically a
5 17 to 20-year life expectancy on a furnace. In fact, if
6 you look at when the plant first opened in 1978, we're
7 25,984 tons of greenhouse gases lower now than we were
8 back in 1978.

9 So I think we've gotten a little bit better than
10 the 1990 standard. Quite a bit better. And we will
11 continue to strive to move forward in the future as we
12 continue to add another unit into the molecular coater
13 that is going to add more energy efficiency to the product
14 heading out to the commercial residential customers.

15 We are also investigating every energy options
16 that we can in the facility. But that's not going to
17 change what's the benchmark going to do to us. If, in the
18 future, if we are not cold tank repair yet, we can't make
19 major changes. That means we must reduce production.
20 Reducing production means laying people off. That is an
21 unfortunate fact, but that's how things work.

22 We also manage fiberglass products used
23 throughout the building industry and automotive products.
24 There is a lot of things the glass is being used for
25 today. A lot of the solar panels being produced today

1 have our glass in it. That glass has tremendous
2 downstream help to get to our goal.

3 I thank you very much for your time today a great
4 day.

5 CHAIRPERSON NICHOLS: Thank you for being here.

6 MR. MC INTYRE: Good afternoon, Chairman, Board.

7 My name is Charles McIntyre. I'm President of
8 the West Coast Protective League and represent the workers
9 in the glass container manufacturing here in California.
10 I'm a third generation glass worker myself. We're talking
11 about an industry that has the long generation of family
12 workers in this industry.

13 And as Mr. Robson mentioned about the benchmark,
14 we would really like to have that looked at and have that
15 benchmark truly reflect our industry.

16 I heard a gentleman talk about, you know, the
17 steel mill. My family, they worked in glass and they
18 worked this steel. Show me a steel mill around here. I
19 know where they're at. They're overseas.

20 So, for an example, since 1980, we had roughly
21 over 20,000 union glass jobs in the state. Now we lost
22 18,000. Mr. Robson said we had 2600. That's about 2300.
23 We are starting to hire a little bit. But the economy
24 really hit these factories hard, because the profit margin
25 is really, really small in glass. Anything in the

1 economy, energy, materials, any blip, it affects our
2 workers. And we do have job losses and leakage. So if we
3 don't get this benchmark fixed, it's going to be bad.

4 Mike, he spoke about the bottle bill. We put
5 millions of dollars -- these container industries put
6 millions of dollars into the Bottle Bill. And we rely on
7 that Bottle Bill. We relied on that recycled glass. We
8 have the 35 percent minimum content these factories have
9 to make. But with this Bottle Bill, as you all know, the
10 politicians here in Sacramento, they raid that fund. When
11 they raid that fund, it puts our industry at risk. And
12 when it's at risk, we lose jobs.

13 We have to look at this that they are a green
14 industry. You have to look at our products as being
15 green. It's because of what we make. And as to you
16 guys -- everybody talks about green this, green that. And
17 I've heard saying, yeah, we're going to have some job
18 losses and we don't know what the new jobs are going to
19 be. They're building more Wal-Mart's and we are losing for
20 manufacturing in this state and we need to protect these
21 jobs.

22 So anyway, Madam Chair and Board we'd appreciate
23 if you would reconsider that benchmark and take a look at
24 it for us. Thank you very much.

25 CHAIRPERSON NICHOLS: Thank you.

1 Jason Ikerd and Nicholas Balistreri.

2 MR. IKERD: Thank you, Madam Chair, members. My
3 name is Jason Ikerd. I'm here today on behalf of
4 Qualcomm, Incorporated.

5 Qualcomm is one of the but-for CHP entities that
6 staff presented to you on earlier this morning. And they
7 made their investments in combined heat and power in an
8 effort to reduce greenhouse gas emissions in the state,
9 and they were successful. Those investments have resulted
10 in a reduction of a little bit over 6,000 metric tons of
11 greenhouse gas annually.

12 Qualcomm has found that combined heat and power
13 works well for their operations. And they're a growing
14 company in California. And they would like very much to
15 continue to rely on combined heat and power as they
16 expand. But unfortunately, the cost of compliance under
17 cap and trade is such that it would be very difficult to
18 do so.

19 For those reasons, Qualcomm is pleased to see in
20 the resolution that's before you today potential exemption
21 for but-for CHP entities such as Qualcomm. They believe
22 that's appropriate for the Cap and Trade Program. They
23 believe it's consistent with the Governor's finding and
24 the findings of this Board that combined heat and power
25 will result in a reduction in greenhouse gas emissions.

1 And so they support that aspect of the resolution. And
2 they look forward very much to working with the Executive
3 Officer and your staff to resolve this issue as quickly as
4 possible. Thank you.

5 CHAIRPERSON NICHOLS: Thank you.

6 BOARD MEMBER ROBERTS: I want to thank the staff
7 for working. As you recall, this was not just Qualcomm,
8 but some of the universities and others have really done
9 things that we had hoped they would do and very
10 environmental in terms of their movement. So I'm glad
11 that we're getting this worked out. Thank you for your
12 testimony.

13 CHAIRPERSON NICHOLS: Okay.

14 MR. BALISTRERI: Madam Chair, Board members. My
15 name is Nicholas Balistreri. I'm with the University of
16 California.

17 I want to thank you for addressing the concerns
18 of the university and let you know we support your
19 initiative. U.C. is committed to working with the state
20 of California and the Air Resources Board in reducing
21 statewide greenhouse gas emissions. We look forward to
22 working with ARB staff towards this goal.

23 U.C. has a long track record of supporting the
24 state's environmental goals and has been a leader in
25 adopting energy-efficiency technologies and renewable

1 energy solutions. Over the last three years, we have
2 invested a quarter of a billion dollars and partnership
3 with the state investor-owned utilities for energy
4 efficiency retrofit projects.

5 U.C. has invested heavily in state-of-the-art
6 highly efficient cogeneration plants. We have over 130
7 megawatts on our campuses. And these are the primary
8 source of our emissions that bring us under the cap and
9 trade program.

10 We have also invested in over 17 megawatts of
11 renewable energy capacity on our campuses.

12 U.C. does not plan on resting on its laurels. We
13 will continue our environmental stewardship in the state
14 of California. By recognizing our previous efforts to
15 determine a compliance obligation, U.C. will more easily
16 be able to invest in carbon reduction projects.

17 We look forward to investing in biogas
18 development, teaming with wastewater treatment plants to
19 upgrade the facilities and put methane to productive use.
20 We'd like to design, source, and construct large-scale
21 organic waste from manure and agricultural byproducts to
22 produce biomethane and use those in our facilities.

23 We'd like to fund large-scale remote side
24 renewable energy projects to be consumed on our campuses.

25 We'd like to fund small-scale renewable projects,

1 such as roof top solar, on more of our campuses.

2 We'd also like to have capital improvement
3 projects towards our combined heat and power plants for
4 higher electric conversion efficiencies.

5 We appreciate the assistance outlined today and
6 the efforts taken by the Board to address our previous
7 efforts. This initiative will help reduce our future
8 operational cost and will help us through these tight
9 fiscal times.

10 We look forward to working with ARB staff on
11 implementing these regulations. Thank you very much.

12 CHAIRPERSON NICHOLS: Thank you.

13 BOARD MEMBER ROBERTS: My previous comments were
14 premature. I didn't realize they were next up. That's
15 exactly what I was talking about. So thank you.

16 CHAIRPERSON NICHOLS: Well, you know, staff
17 really has been working with a lot of different
18 industries. And some problems are easier to address than
19 others. The CHP one, once there was thought given to what
20 the policy was there, it wasn't all that difficult to see
21 that you had to separate out the electricity portion from
22 the rest of the emissions. Some are more complicated.
23 There's no doubt about it. And so we're still working
24 away.

25 Nick.

1 MR. LAPIS: Good afternoon, Chair Nichols and
2 Board members.

3 Speaking of complicated issues, I think we have
4 one in our sector. My name is Nick Lapis. I'm with
5 Californians Against Waste. We are a statewide
6 environmental organization founded around promoting
7 recycling, reducing resource use, supporting conservation.

8 We join our environmental colleagues in
9 supporting the ARB auction mechanisms, but we have strong
10 concerns about the waste-to-energy exemption that was
11 added into the resolution that's before you today. This
12 is the third paragraph of the resolution, and it's the
13 third paragraph -- third page and third paragraph of the
14 resolution.

15 We have strong substantive reasons that --
16 greenhouse gas reasons for believing waste to energy
17 facilities should not be exempted from the cap. That
18 includes the emissions from these facilities are not
19 necessarily going to go to uncapped sector, which is what
20 the industry claims. We believe a lot of these facilities
21 compete with recycling, not only landfills. So if we
22 decrease the compliance obligation required of this
23 sector, we are decreasing the competitiveness of the
24 recycling industries that reduce greenhouse gases. And
25 that creates significantly more jobs than this iteration.

1 We also believe that this action is based on a
2 misinterpretation of a Cal Recycle study. And that study
3 compared the emissions from landfills and waste-to-energy
4 facilities. It did not speak to the combination of what
5 affect the exemption of these facilities from the cap
6 would have on recycling and other greenhouse gas reduction
7 entities.

8 But most importantly, we're concerned about the
9 process that has undergone since the last time this was
10 before you. If you remember the last time that you acted
11 on this, it was in the 15-day changes at October's Board
12 meeting. At that time, there was a proposal to exempt
13 incinerators from cap and trade, as one of the 15-day
14 changes. The Board elected to not take that option and
15 directed staff to have a stakeholder process to evaluate
16 both waste-to-energy emissions, but also emission
17 reduction opportunities from recycling, potential
18 emissions from landfills, and the whole suite of
19 inter-related industries.

20 Since then, there hasn't been a single public
21 workshop. There hasn't been a single stakeholder meeting.
22 There hasn't been a single discussion of what we should
23 do, what we shouldn't do, what the greenhouse gas
24 implications are of this kind of action.

25 So you can imagine our surprise when we heard

1 last week that this would be taken up as part of a
2 resolution that had not been publicly noticed in terms of
3 this item would be a part of it and where no public
4 process has taken place.

5 We think it's premature to come to the conclusion
6 that exempting waste-to-energy facilities will have a
7 positive greenhouse gas benefit.

8 We do support staff analyzing this sector further
9 and reaching conclusions with stakeholder input on what to
10 do. But at this point, I don't think we're ready to say
11 that the pre-determined outcome of that action should be
12 exempting these facilities, which is what the resolution
13 says. Thank you.

14 CHAIRPERSON NICHOLS: Thank you.

15 Monica Wilson followed by Beth Vaughan.

16 MS. WILSON: Good afternoon. Thank you again for
17 the opportunity to speak to you today.

18 My name is Monica Wilson. I'm with an
19 organization called GAIA, Global Alliance for Incinerator
20 Alternatives. We have many members across California and
21 around the world who represent environmental justice
22 organizations and others who care a great deal about what
23 happens to waste and recycling.

24 And I wanted to comment specifically on the same
25 proposal that you just heard about, the proposed

1 resolution to exempt incinerators from the cap.

2 I wanted to make three points today. One is that
3 know that CARB is already moving in the right direction by
4 recognizing the role of recycling and the composting in
5 the mandatory commercial recycling work that you've
6 already put forward that we already heard about today.
7 And with California's new 75 percent recycling goal, this
8 is definitely moving us in the right direction we hope
9 this is just the first of actions -- number of actions
10 from CARB that will support this sector and the growth of
11 jobs through recycling and composting and the important
12 role they play in greenhouse gas reduction and energy
13 conservation.

14 My second point is that -- go back to the first
15 point -- that supporting incinerators is actually a
16 problem for recycling, because they compete for the same
17 materials. So incinerators would like to burn plastics
18 and paper and cardboard and many of the same materials
19 that recycling sector needs and where we recognize
20 greenhouse gas benefits from recycling.

21 On my second point is what's up for debate today
22 is really about the fossil fuel emissions from the
23 incinerators. What happens when we burn plastics and do
24 we count the burning of plastics, which comes from fossil
25 fuels. And I argue we should, because they're coming from

1 fossil fuels. And that's really an important thing to
2 recognize when we're looking at where greenhouse gas
3 emissions are coming from.

4 And then my final point is around environmental
5 justice. There is new research that looks at the siting
6 of incinerators across the United States, and it's really
7 clear that where incinerators are built is predominantly
8 in communities of colors and low-income communities. I
9 would hope that under the cap we can reduce greenhouse gas
10 emissions from incinerators, but also reduce the
11 co-pollutants that are of great concern.

12 So I hope in this resolution we can have a public
13 process to address this issue and a transparent process
14 with Cal Recycle and other who are experts in this field
15 and figure out what is really the best approach for
16 supporting a recycling sector in California and for
17 dealing with waste under this cap.

18 Thank you very much.

19 CHAIRPERSON NICHOLS: Thank you.

20 David Lizarraga and Andrew Barrera.

21 MS. VAUGHAN: Thank you. Chairman Nichols and
22 Board members, thank you very much for the opportunity to
23 make comments.

24 I'm Beth Vaughan, the Executive Director of the
25 California Cogeneration Council. Our members have 34

1 combined heat projects here in California. And as
2 Chairman Nichols pointed out --

3 CHAIRPERSON NICHOLS: We want more

4 MS. VAUGHAN: So would we. And they come in all
5 shapes and sizes. And consequently, it is complicated.
6 And I would say they're all impacted differently under the
7 cap and trade regulation.

8 But I'm very pleased to be here today to support
9 Resolution 12-33. And in particular, there are three out
10 of six resolutions here that impact combined heat and
11 power facilities and consequently my members.

12 I think the last time I was here testifying was
13 at the auction proceeds workshop where I was asking for
14 help from the proceeds. But this is our preferred option,
15 specifically transition assistance for those that are
16 caught up in the legacy contracts. And in particular, the
17 but-for CHP facilities, the exception of the first
18 compliance period which you heard from previous speakers.

19 I think that these are the correct direction.
20 We've been advocating this now for a year-and-a-half. And
21 I think this is the right direction to go in.

22 I would urge the staff to convene the
23 stakeholders as soon as possible to help set expectations.
24 I appreciated the letter that Chairman Nichols sent to
25 Assemblyman Fletcher at the end of August, but I was

1 inundated the next day with all sorts of phone calls with
2 everyone thinking they got included in the category of
3 but-for CHP.

4 I was actually pleased to hear Mary Jane in her
5 description identify it was probably less than a dozen.
6 Similarly with legacy contracts, there's 17. I think we
7 need to get out there and talk with the stakeholders and
8 make sure people understand what the rules are and around
9 eligibility. And we're more than happy to help with this
10 large and strange membership. We're a good litmus test
11 for all the different ideas folks have of how to develop
12 these methodologies. So thank you very much.

13 CHAIRPERSON NICHOLS: Mr. Barrera.

14 MR. BARRERA: Actually, I'm playing two roles
15 here. Mr. Lizarraga asked me to speak on his behalf.

16 As you know, Mr. David Lizarraga is the President
17 and CEO of TELACU. Also the former Chairman of the
18 United States Hispanic Chamber, and a long time civil
19 rights champion for low and moderate-income communities,
20 which includes the consumer based small businesses
21 communities as well.

22 He has delivered a detailed letter that has
23 already been entered into the record, but I'll just cover
24 some of the main points that he's covering.

25 Madam Chair and honorable members of the Board,

1 TELACU is a 40-year-old institution committed to service,
2 empowerment, and self-sufficiency. Our unique business
3 model for the communities and economic development is
4 based on profitability, concurrent with positive impacts
5 on people and in their communities. And we evaluate
6 government policies on the same basis. And in our belief,
7 it must meet these same standards.

8 We regret to say that cap and trade as currently
9 structured will likely impair the profitability and
10 sustainability of small local businesses as it will have a
11 negative and social impact on our communities as well.

12 The element of the program that we find troubling
13 is the intent to withhold free allowances from regulated
14 entities and require them to purchase them on an
15 international auction. You have seen the legislative
16 analyst's opinion that the auction would created economic
17 and emission leakage; whereas, free allowances will
18 minimize compliance costs and protect California
19 businesses and revenues.

20 The LAO also concluded that AB 32's goals can be
21 met without an auction. So to pursue an auction under
22 these circumstances is unsupportable.

23 Admittedly, there is some discussion of
24 implementing programs to mitigate these costs with respect
25 to small business and low income communities. But there

1 is absolutely no evidence or reasonable guarantees that
2 such programs will be sufficient and to fully remediate
3 what this agency has described as a necessary price on
4 carbon or that available funds would be fairly and
5 effectively and efficiently distributed.

6 A more likely scenario is that we will see a
7 significant business flight and excessive job loss,
8 declining revenues and a further erosion of the social
9 safety net. This is unacceptable. TELACU is supportive
10 of a well-designed Cap and Trade Program, provided that it
11 is compatible with our model of profitability and genuine
12 social responsibility.

13 A return to free allowance model for cap and
14 trade would be an important step in this direction. Now
15 may I read --

16 CHAIRPERSON NICHOLS: Sure. You can be two
17 people.

18 MR. BARRERA: Thank you. I'm playing two roles
19 here. The next statement us much smaller.

20 Madam Chair and honorable members of the
21 Committee. My name is Andrew Barrera. I'm here
22 representing the Los Angeles Metropolitan Hispanic Chamber
23 of Commerce. I'm a former traction under Richard Katz for
24 the State Assembly and also a former representative of Los
25 Angeles Mayor Richard Riordan.

1 In Los Angeles, we already are feeling the
2 effects of AB 32. The laws and policies have or will
3 substantially increase energy costs. The Los Angeles
4 Department of Water and Power is also facing enormous
5 costs to comply with the renewable portfolio standard.

6 For example, rates have continued to go up. And
7 only just the past few weeks, the department has asked for
8 another 11 percent increase. We cannot afford a new
9 emission allowance tax on top of that. That is, in our
10 opinion, the cap and trade auction will be exactly that.

11 Our chamber is supportive of reducing greenhouse
12 emissions, but it must be done in a cost-effective way.
13 Not only is the auction not cost effective but in our
14 opinion is not necessary.

15 The Legislative Analyst has warned that without
16 free allowances, we are likely to lose businesses and
17 revenues to other states and along with that the emissions
18 and these companies would take with them.

19 The LAO has also stated that we don't need an
20 auction to meet our AB 32 emission reduction goals. We
21 can think of no reason to move ahead with this. And with
22 the amounts -- what amounts to be a multi-billion dollar
23 energy tax when it can be met with the existing AB 32
24 goals without it. Frankly, we are having trouble
25 understanding why we would even consider this in today's

1 bad economy.

2 And the L.A. Metropolitan Hispanic Chamber of
3 Commerce urges you to protect our business, our jobs, and
4 amend the cap and trade to include a more free allowance.
5 Thank you very much.

6 CHAIRPERSON NICHOLS: Thank you.

7 MR. CANETE: Good afternoon. Julian Canete,
8 President, CEO of California Hispanic Chamber of Commerce.

9 We have often expressed our concern about the
10 impact of AB 2 regulations on small and minority-owned
11 businesses. We are disappointed substantive steps have
12 not been taken to protect these businesses and the
13 communities they serve.

14 The cap and trade auction will be the most costly
15 AB 32 initiative to date. Numerous recent studies have
16 projected enormous cost, job loss, and significant loss of
17 revenues. The Legislative analyst last month announced
18 that the with holding of free allowances will likely put
19 California business at a competitive disadvantage to the
20 point some would down-size or close. Those likely to
21 close are not large directly regulated entities, but the
22 smaller businesses, the auction cost would be passed
23 on to.

24 We do not have the resources to pay those costs
25 and don't have the option of moving out of state. We

1 don't have the luxury of waiting it out until you review
2 the impacts a year or two into the program and make
3 adjustments to reduce the cost. We will just be gone.

4 We appreciate that you may be looking into ways
5 to direct some of the auction revenues to assist those
6 who suffer economic harm as a result of the program. But
7 there is already intense competition for those revenues
8 and it's highly unlikely it will be enough to protect
9 everyone. The Legislative Analyst's has concluded an
10 auction is not necessary to meet AB 32 emission
11 reductions, goals, and that free allowances will protect
12 businesses and the environment.

13 We urge you to choose in favor of protecting
14 businesses and their environment by revising the Cap and
15 Trade Program to include maximum free allowances instead
16 of costly unnecessary auction. Thank you.

17 MR. VERDUZCO-VEGA: Good afternoon, Madam Chair
18 and members of the Board.

19 My name is Erick Verduzco-Vega, and I'm the
20 President and CEO of the South Bay Latino Chamber of
21 Commerce out of Los Angeles County. And I'm also a proud
22 business owner that is happy to be able to employ nine
23 people with my business.

24 Our members are hispanic-owned business. The
25 majority of them are small businesses, just much like

1 mine. We are interested in economic growth, and we're
2 also very interested in job creation. And like everyone
3 else in this audience, we want to do this not just for the
4 benefit of our companies, but we want to do this for the
5 benefit of our communities.

6 And again, we want -- like everybody else, we,
7 too, like clean air. We like clean water. We want to
8 support your efforts, but responsibly.

9 We're extremely concerned that the auction as
10 planned will have an opposite of effect of what we as
11 small businesses want. The Legislative Analyst has
12 determined that cap and trade will likely increase the
13 cost for most covered entities. And as a small business
14 owner, I'm comfortable in telling you this is going to
15 lead to higher consumer prices for our customers.

16 The LAO also found those higher costs could cause
17 a leakage of business out of California and will
18 eventually lead to higher carbon emissions. This isn't
19 what AB 32 intended to do.

20 On the other hand, the LAO definitely states that
21 an allowance auction is not necessary to meet AB 32's
22 reduction goals. It's simple. More free allowances means
23 more protection for California jobs and protection for the
24 environment. Not increasing the number of free allowances
25 means putting businesses, jobs, our communities, and our

1 families at greater risk.

2 The South Bay Latino Chamber of Commerce
3 respectfully urges you to increase the number of free
4 allowances for the good of the economy, the environment,
5 and the community. Thank you very much.

6 Thank you.

7 MR. LOMBARD: Madam Chair and Board, my name is
8 Edwin Lombard. I'm an advocate for minority small
9 businesses and community-based organizations throughout
10 the state of California.

11 Today, I'm representing nonprofit organizations
12 such as the WLCAC, which is a labor organization, based in
13 Los Angeles. They provide workforce development and job
14 placement for low-income communities and organizations
15 like the MaryAnne Wright Foundation out of Oakland. They
16 provide meals for homeless and underserved communities in
17 Oakland, California.

18 When you talk about auctioning off emission
19 allowances as part of a cap and trade, you don't talk
20 about it in terms of organizations like these and the
21 people they serve. You talk about putting a price on
22 carbon that will be paid by power plants, refiners, and
23 manufacturers. But the fact is when the cost goes up on
24 these industries, they go up on everyone. And those costs
25 increases, most those will hurt those that can afford them

1 the least.

2 MaryAnne Wright Foundation, as well as many other
3 nonprofit organizations throughout the state, already are
4 on the verge of shutting their doors because of
5 sky-rocketing utility costs, much of which are directly
6 related to the renewable portfolio standard and other
7 carbon reduction policies. They cannot afford one more
8 dollar of utility increases. They and countless other
9 nonprofit organizations are likely to be the nameless
10 victims of this auction. And their closures will be
11 noticed only by the people who have come to rely on them
12 for the basics of human needs.

13 I understand that you would like to take some of
14 the auction revenue and use them to help offset these
15 costs. Unfortunately, these organizations cannot wait
16 around for those programs to kick in, if at all.

17 The most painful part of this is that according
18 to the Legislative Analyst, we can meet the emission
19 reduction goals without an auction.

20 So our recommendation, our plea, is that you go
21 ahead with cap and trade with more free allowances and
22 without this expensive and unnecessary auction. Thank
23 you.

24 Mr. Aldrid, Mr. Baggett, Mr. Terebkoue.

25 MR. BAGGETT: My name is Sean Baggett. Is

1 everyone awake? I know everyone's food settled.

2 CHAIRPERSON NICHOLS: That's fine.

3 MR. BAGGETT: Thanks. Hello. My name is Sean
4 Baggett. I'm President and COE of Academia Resource
5 Services. We work with special education students and
6 their families advocating throughout the state of
7 California. Most of them are usually disenfranchised in
8 communities throughout California. Not because the love
9 isn't there; it's because the lack of resources makes it
10 difficult for them to partake in main stream activities
11 because of this loss in revenue.

12 We all want the best for our kids. And that
13 includes a clean and healthy environment, but we can't
14 afford to waste money on environmental programs that won't
15 have a meaningful impact in those areas. The cap and
16 trade auction to me looks like one of those programs.

17 The LAO office has said cap and trade will work
18 with or without the auction because it's the cap, not the
19 auction. That will reduce greenhouse gas emissions.

20 It's also said without free allowances we will
21 lose businesses and revenue, which is another excuse for
22 businesses to flee California.

23 Between the State's massive deficit, which means
24 fewer resource available to help our special needs
25 children and the ongoing recession which has dried up a

1 lot of the private funding forces, our kids are at a
2 greater disadvantage than they've been in generations. We
3 can't take this chance that the auction will provide
4 enough money to make up for those losses. They're already
5 suffered.

6 I would hope that we would do everything we can
7 to protect our business, jobs, and revenues that we
8 already have, not risking them by an unnecessary auction.
9 Free allowances and auction is the way to go. Thank you.

10 CHAIRPERSON NICHOLS: Thank you.

11 Sergey Terebkoue, Henry Casas.

12 MR. CASAS: Good afternoon, Madam Chair and Board
13 members.

14 My name is Henry Casas. I'm the Director of
15 Government and Community Affairs for Soledad Enrichment
16 Action. We are a nonprofit that serves thousands of
17 at-risk youth throughout L.A. County, from as far east as
18 Pomona and as far west as Hollywood, as far south as Long
19 Beach, and as far north as Pacoima, and all the areas in
20 between. We provide educational opportunities for those
21 wishing to finish their secondary education and those
22 seeking vocational training.

23 What I've seen in my years working with SEA is
24 there's nothing more important to these kids than an
25 education and a real opportunity to get a job.

1 We believe this cap and trade auction, by
2 increasing costs to existing employers and discouraging
3 new ones from locating here, will make these goals harder
4 to achieve.

5 Without an increase in free allowances,
6 businesses will be cutting back on jobs, scholarships, and
7 job training programs. What this means to our students,
8 it will mean less opportunity to get internships,
9 financial assistance, and training jobs for good paying
10 blue and white color jobs.

11 On a second note, our schools would suffer from
12 higher energy and other costs from a decrease in local
13 property and tax revenues. They will experience as
14 businesses downsize or leave the communities all together.
15 The unemployment and drop-out rates in our communities are
16 already alarmingly high. This will make them worse.

17 Cap and trade can be successful without auction.
18 As a matter of fact, the Legislative Analyst has said free
19 allowance are the way to stop businesses -- are a way to
20 stop business and revenue leakage while maintaining the
21 environmental integrity of the program.

22 We need these revenues from taxes paid by
23 successful businesses and jobs from companies that are
24 already here, not some that might locate here despite the
25 costs.

1 Please take the LOA's advice to heart. Free
2 allowances will do our kids much more good than an
3 unnecessary auction. Thank you for your time.

4 CHAIRPERSON NICHOLS: Thank you.

5 James Brady and Brenda Coleman.

6 MR. BRADY: Good afternoon, Madam Chair, Board.

7 My name is James Brady, and I represent 100 Black
8 Men of America, as well as I'm a small business owner. We
9 are a group of volunteers committed to improving the
10 quality of life for the youth in our local community.

11 With unemployment African Americans in California
12 among 19 percent, we are always interested in policies and
13 helping create jobs for economic relief for their
14 communities or families. But we do not believe the cap
15 and trade auction will do that. And it may do the
16 opposite. The auction will drive energy costs up by
17 billions of dollars, forcing many business, especially
18 small, to down size or leave the state. That means fewer
19 jobs, disadvantaged youth, and a few dollars available to
20 support community programs.

21 And while just about everyone who believes the
22 auction will cost billions, there's very little low income
23 communities. Our communities of color getting back what
24 they will have to pay in higher utility and fuel bills.

25 It's my understanding that we don't need an

1 auction to reduce greenhouse gas emissions under the Cap
2 and Trade Program and free allowances, which would seem a
3 more straight forward and cost effective way to go. And
4 one that won't give false hope to people that have to pay
5 the auction bills.

6 But one other thing that concerns me is I have
7 not heard even discussed here today -- and it was
8 discussed at the last meeting -- was water. We have water
9 in the air every day. And I think the two elements that
10 need to come together is CO2 and H2O. If you don't have a
11 water policy inside of this program, it's just going to
12 drive up a lot of resource for farmers.

13 So I would like to ask the Board to reconsider.
14 And I know you had asked us last time. We have the
15 ability atmospherically to extract hundreds of gallons of
16 water from the environment every day in climate control,
17 climate change. It's getting hotter every day. The
18 humidity levels are rising. And we have the ability to
19 extract moisture from the air and create pure drinking
20 water and therefore easing the load on the system.

21 With that, I thank you for your time and
22 consideration.

23 CHAIRPERSON NICHOLS: Thank you for coming.
24 Brenda Coleman.

25 MS. COLEMAN: Good afternoon, Madam Chairman and

1 members of the Board.

2 I'm Brenda Coleman here on behalf of the Chamber
3 of Commerce. I'm here on today of behalf of over 13,000
4 members that will either be directly regulated under the
5 cap and/or will experience cost impacts passed down in the
6 form of higher energy and fuel prices.

7 I think it's important and worth noting that
8 since -- or throughout the entire process Cal Chamber has
9 expressed its support for a well-designed market-based
10 mechanism. That is one that is cost effective and that
11 provides industry flexibility in achieving greenhouse gas
12 reduction goals.

13 However, as it stands today, this program is far
14 from flexible and far from cost effective, as it seeks to
15 impose a multi-billion dollar energy tax on business and
16 consumers. The imposition of this tax runs completely
17 contrary to the explicit goals of AB 32, which is that of
18 minimizing leakage and maximizing cost-effective emission
19 reductions.

20 In fact, we believe that the proposal you have
21 before you today to exempt certain entities is a clear
22 recognition and indication of the negative impacts this
23 program will have on the state's economy. We believe,
24 members, that this impact can be mitigated by adjusting
25 the program and providing for 100 percent free allocation

1 to all sectors.

2 We, like several before me today, completely
3 support the recent recommendations of the Legislative
4 Analyst office on how to protect against emissions and
5 economic leakage from the high cost of the cap and trade
6 auction.

7 I'll just briefly quote a brief paragraph from
8 that LAO report that said, "A key advance of 100 percent
9 free allocation is it would offset significantly more of
10 the marginal cost increase resulting from compliance with
11 the program as compared to the ARB approach and reduce the
12 potential leakage while preserving the environmental
13 integrity of the program."

14 In closing, members, we urge you to adjust the
15 program in a manner that is consistent with the LAO
16 recommendation and to allow for 100 percent free
17 allocation.

18 It is time, members, to stop seeing -- folks stop
19 seeing this program as a revenue source for the state and
20 instead start focusing on ways to achieve our
21 environmental goals in a manner that is consistent with
22 the requirements of AB 32 while protecting jobs and our
23 still struggling economy. Thank you.

24 CHAIRPERSON NICHOLS: Thank you.

25 MR. STARK: Hello. I'm Josh Stark, State

1 Campaign Director for Transform. We're an organization
2 dedicated to world-class transportation and walkable
3 communities.

4 The Air Resources Board chose a carbon cap and
5 trade mechanism as one method for curbing carbon pollution
6 because it allows efficiencies to accrue to emitters,
7 easing the burden on individual companies who by law must
8 reduce their pollution emissions.

9 However, these efficiencies only accrue to all
10 Californians to the extent that the mechanism is both
11 robust and predictable and to the extent that revenues
12 from the auction are used to mitigate the mechanism's
13 aggressive impacts and impacts from carbon and other
14 pollutants, also disproportionately borne by disadvantaged
15 communities and non-economic entities such as habitat.

16 Using the market mechanism to criteria at value
17 for greenhouse gas pollution and giving away all of this
18 value would set a terrible precedent. The mechanism would
19 become unpredictable, sending a signal to large companies
20 to invest in political economy rather than pollution
21 reductions while leaving small businesses to flounder
22 without any direction.

23 The mechanism would also become far less robust
24 with no clear price discovery for carbon.

25 Most importantly, without auction revenue

1 capture, the mechanism would lose its ability to mitigate
2 the regressive impacts of carbon pricing and co-pollutant
3 emission reductions inherent in a market mechanism. These
4 imitations are absolutely critical to ensuring that the
5 benefits of cap and trade and thus the goals of AB 32 and
6 the California Air Resources Board accrue to all
7 Californians in an equitable manner.

8 Transform also commends the Chair and United
9 Steel Workers for considering border adjustments as a way
10 to improve the fairness and robustness of the cap and
11 trade mechanism. Thank you.

12 CHAIRPERSON NICHOLS: Peter, it's your turn.

13 MR. WEINER: Thank you, Madam Chair, members of
14 the Board and staff.

15 My name is Peter Weiner from the Law Firm of Paul
16 Hastings. I want to thank you all for the thousands of
17 hours that you have spent, not hundreds, but thousands of
18 hours, in implementing certainly the most ambitious
19 environmental law in this country at this time.

20 Inevitably, with something so new and so large,
21 there are what we might call technically glitches. One of
22 those glitches has been the flight of legacy contracts.
23 And I know this Board has been aware of those legacy
24 contracts and the issues presented by them. I'm very
25 pleased to be able to thank staff for their staff

1 presentation today and for including a paragraph on legacy
2 contracts and Resolution 12-33. We are very pleased at
3 the responsiveness of the Board and its staff to this
4 issue. We hope it could be resolved prior to mid-2013,
5 but we are so pleased that you are addressing it.

6 Thank you so much.

7 CHAIRPERSON NICHOLS: Thank you. Appreciate
8 that.

9 Craig Anderson and then William Barrett.

10 MR. ANDERSON: Good afternoon, Chair Nichols and
11 members of the Board.

12 My name is Craig Anderson. I'm the Director of
13 Environmental Affairs for solar turbines. Solar is the
14 manufacturer of industrial gas turbines. We haven't
15 powered them by the sun yet. We're working on that.

16 So just to be clear, we're based in San Diego.
17 We've been there for 85 years. And we have about 4800
18 employees in California.

19 Chair Nichols and Supervisor Roberts, as you
20 witnessed to your visit to our facility, our placards and
21 our products show destinations of the U.S., China, India,
22 Malaysia, Europe, Africa, South America. We are providing
23 clean energy solutions to our customers, several of which
24 you heard from today.

25 We are the only turbine manufacturer in

1 California, and therefore not a single competitor of ours
2 will be subject to the Cap and Trade Program.

3 We have very much appreciated the time that staff
4 as well as several members of the Board have expended to
5 understand our very unique business and our concerns about
6 how cap and trade will impact our business. We have
7 voluntarily reported our emissions under the Climate
8 Action Registry. We've been named a climate action
9 leader. We've reported and verified our emissions with
10 the Air Resources Board. We're registered and we will
11 participate in the auction in November. We will do
12 everything possible to comply with AB 32.

13 However, we remain deeply concerned about our
14 designation as a medium leakage risk. This designation
15 will require us to reduce our emissions or purchase
16 allowances for more than 25 percent of our testing
17 capacity starting in 2015 and more than 50 percent
18 beginning in 2018. We believe that we are a highly trade
19 exposed business. We are more than willing to pay our
20 fair share under this program. But we believe it's not
21 justified for our business to secure more allowances or
22 reduce our emissions in amounts far greater than the 20
23 percent objectives of AB 32.

24 The current leakage approach represents a
25 considerable risk to our business. We have and we will

1 continue to work very hard to reduce our emissions from
2 engine testing. Our customers requirements for
3 demonstrating product safety will not allow reductions to
4 meet the requirements. This is not about necessarily the
5 cost of allowances. We are not an energy-intensive
6 business. It is the uncertainty of how the market will
7 function in the future years.

8 Specifically, I need to stand in front of my
9 business and say that we will be able to secure allowances
10 five years from now, seven years from now, to keep our
11 business running.

12 We request the Board suspend the leakage
13 designation and corresponding industry assistance factors
14 beyond 2015 until the methodology is vetted through
15 additional studies and reaffirmed by this Board.

16 This would not impact the planned November
17 auction. Thank you very much for your time. I appreciate
18 it.

19 CHAIRPERSON NICHOLS: Thank you. Did you
20 submit -- yes, you did. Great. Thank you. Just curious.

21 MR. BARRETT: Will Barrett with American Lung
22 Association.

23 Thank you, Chairman Nichols, for the opportunity
24 to speak to you.

25 The American Lung Association of California has

1 been a strong supporter of AB 32 to reduce the threats to
2 our air quality and our climate. We believe the full
3 package of AB 32 programs must be successful if we are to
4 protect against the worse impacts of climate change.

5 California's unique air quality problems have
6 elevated the importance of successful implementation of AB
7 32 to the forefront. Despite our decades of leadership on
8 clean air policy, Californians still experience some of
9 the most polluted air in the nation, largely due to our
10 reliance on dirty fossil fuels.

11 Numerous studies do link air pollution exposure
12 to asthma attacks as well as increased risk of emphysema,
13 chronic bronchitis, heart attacks, diabetes, strokes and
14 many other respiratory ailments. These specifically
15 impact our children, elderly, residents, residents of low
16 income communities, and communities of color specifically.
17 The public health cost of these illness and deaths add up
18 to billions of dollars a year in California. This is
19 unacceptable. And climate change will only worsen these
20 air quality problems.

21 So we do believe we must do everything possible
22 to implement AB 32 and cut off all of our pollution
23 problems through cleaner technologies including our smog,
24 soot, greenhouse gas issues, if we are going the reach our
25 clean air goals through our state.

1 We do applaud the State Air Board for moving
2 forward with AB 32, including the Cap and Trade Program.
3 And I'd like to just quickly emphasize three points about
4 the Cap and Trade Program.

5 First of all, the Cap and Trade Program places a
6 cost on carbon pollution for the first time in our state,
7 meaning that our air is no longer a free dumping ground
8 for this harmful pollution. Companies that pollute must
9 not only reduce their emissions, but pay for any emissions
10 in excess of the cap. This is a vital policy component
11 that need to move forward.

12 As you know, the Lung Association initially
13 supported 100 auction as part of the design for the
14 program. And we felt that was going to foster a more
15 rapid transition to clean energy economy.

16 Now that we've settled on the 90 percent free
17 allowances, we do urge you to hold the line and reject
18 further attempts to get additional free allocation.

19 We believe that the investment in the cap and
20 trade auction revenue does provide a critical opportunity
21 to further the goals of AB 32, especially in terms of
22 improving air quality and public health. We believe those
23 investments should be prioritized to maximize the goals of
24 AB 32, especially maximizing the public health goals up
25 there. We believe that disadvantaged communities and a

1 clean energy economy will result if the program goes
2 forward as planned.

3 We think that we can achieve cleaner
4 transportation technologies, cleaner transit and freight
5 systems in our state, clean renewable energy and
6 sustainable community planning are all some of the
7 benefits that we see ripe for investment in the future.
8 So continuing California's clean air leadership is vital
9 to air locally and globally as others look to our
10 leadership.

11 So I'd just like to end with thanking the staff
12 for their open communications over the course of the
13 development of the program and to the clerk of the Board
14 for helping get stakeholders into the process and in a
15 smooth way. So thank you very much.

16 CHAIRPERSON NICHOLS: Thank you. Appreciate
17 that.

18 Ken Payne, are you here?

19 If not, Belinda Morris. And then Michelle
20 Passero.

21 MS. MORRIS: Good afternoon, Madam Chair and
22 members of the Board. Thank you for the opportunity to
23 speak today.

24 I'm Belinda Morris from the American Carbon
25 Registry. We'd like to applaud the ARB staff for all your

1 hard work and dedication in getting the Cap and Trade
2 Program ready to launch. We particularly appreciate the
3 work of Steve Cliff and his team in what you've been doing
4 on the offsets program. We're one of the applicants to
5 become an offset project registry. It's been a pleasure
6 to work with your staff in the application and training
7 process.

8 We do have some concerns about sufficient offsets
9 supply in the program. A previous speaker referenced
10 American Carbon Registry's recent carbon offsets supply
11 analysis. The analysis forecasts offset apply for all
12 three compliance periods. We found that if covered
13 entities use their full offset quota, they will be a
14 shortage in supply and compliance periods ranging from 29
15 percent, or around seven-and-a-half million tons in the
16 first compliance period, and rising to 67 percent, or 134
17 million tons by 2020. We encourage ARB to adopt
18 additional protocols in the very near term in order to
19 fill this gap.

20 Offsets, as we know, are an important cost
21 containment mechanism. And additional offset protocols
22 approved early next year would benefit the program and the
23 economy in the long term. In particular, the adoption of
24 coal main methane, rice management, and low pneumatic
25 valves could bring an additional seven million tons to the

1 program in the first compliance period, closing the
2 projected supply gap.

3 We know you are considering coal mine methane and
4 rice management, but we encourage you to reconsider the
5 adoption of the pneumatic valve protocol, which we project
6 could bring five of those seven million tons into the
7 program in 2013 and 2014. The protocol is uncomplicated
8 and enables project developers to produce real, additional
9 quantifiable, and permanent emission reductions in the
10 near term.

11 I've provided you with a two page summary -- I
12 left it when I signed in -- of the American Carbon
13 Registry supply forecast, and the longer report also be
14 made available to you.

15 So again, we'd really like to thank the staff for
16 all the diligent work they've done and they continue to do
17 and in the efforts to ensure the smooth implementation of
18 the program. We know that you're very, very busy. And we
19 greatly appreciate the attention you give to the offsets
20 program. Thank you very much.

21 CHAIRPERSON NICHOLS: Thank you.

22 Michelle, and then Cassie Gilson.

23 MS. PASSERO: Thank you, Mr. Chair Nichols and
24 members of the Board. Appreciate the opportunity to
25 speak.

1 My name is Michelle Passero. And on behalf of
2 the Nature Conservancy and over 100,000 California
3 members, we express our continued support for the Cap and
4 Trade Program and the numerous measures being implemented
5 by the State to reduce emissions and protect quality of
6 life.

7 As you mentioned earlier, Chair Nichols, support
8 for these actions are clearly articulated by Californians
9 with the resounding defeat of Proposition 23. We
10 acknowledge a tremendous amount of work and analysis of
11 ARB staff and this Board, as well as the process to
12 integrate public input into the current program design
13 that will reduce emissions efficiently and cost
14 effectively.

15 And we also agree with the many experts and the
16 Economic Allocation Advisory Committee that the auction of
17 allowances is critical to establish a price on carbon to
18 create the appropriate market incentive to lower emissions
19 and transition us to a low carbon economy. Like many of
20 our other colleagues in other states and countries,
21 California is not doing this alone.

22 We need this price signal for our own investments
23 in forest offset projects that will lead to greater
24 conservation, greenhouse gas reductions, as well as other
25 public benefits. And the land owners that we work also

1 need this price signal to take advantage of the new market
2 opportunities.

3 The fees generated from the auction also provide
4 a significant opportunity to invest in additional
5 greenhouse gas reductions that will have the added
6 benefits of facilitating job creation and cleaning our air
7 and water, among other things.

8 This is what voters supported. And this is what
9 the Nature Conservancy continues to support. So we look
10 forward to the first auction this November as necessary.
11 And we look forward to the many benefits that the program
12 and the Global Warming Solutions Act will provide to all
13 California. Thank you.

14 CHAIRPERSON NICHOLS: Thank you.

15 Good afternoon.

16 MS. GILSON: Good afternoon, Madam Chair and
17 members.

18 Cassie Gilson on behalf of the Air Liquide. Air
19 Liquide is an industrial gas manufacturer that produces
20 everything from the oxygen you might receive at the
21 hospital to the carbonation in your soda to the hydrogen
22 used by California refineries to produce California's
23 cleaner burning gasoline.

24 I wanted to commend the Board and staff today for
25 the recognition in the Board resolution of the unique

1 circumstances of firms that are subject to long-term or
2 legacy contracts that don't allow them to pass through the
3 cost of compliance with the Cap and Trade Program onto
4 their customers.

5 As your resolution reflects, it's critical that
6 these firms are eligible for additional transition
7 assistance, regardless of the subject matter of their
8 contract, whether that be electricity or steam or, in Air
9 Liquides case, hydrogen. This is important to meet the
10 programs goals of establishing a transparent carbon price
11 that can be passed through, as well as to avoid the
12 industry dislocation that would come from forcing
13 individual firms to bare compliance costs that are
14 significantly in excess of their competitors and bare no
15 relationship to their facility's relative efficiency or
16 the amount they've invested in greenhouse gas reduction
17 measures to date.

18 In closing, I just want to pay a particular thank
19 you to staff who has spent countless hours working through
20 this issue with us. And I look forward to continuing to
21 work with them and you to develop the regulatory language
22 to address the legacy contract issues going forward.
23 Thank you very much.

24 CHAIRPERSON NICHOLS: Thank you.

25 Kristi Foy, and then Frank Caponi.

1 MS. FOY: Thank you. Good afternoon. I'm Kristi
2 Foy here on behalf of the City of Long Beach. And we want
3 to thank you for addressing our concerns.

4 The City of Long Beach supports the ARB's
5 approach as outlined in the resolution and supports the
6 exemption and continued review of the waste-to-energy
7 program using the best science available.

8 We look forward to working with Cal Recycle, ARB,
9 and others as they continue to analyze the potential
10 impacts throughout the waste sector. Thank you for
11 allowing the time for a full and open scientific review.
12 We agree that everyone needs to come together and take a
13 close look at the most up-to-date scientific information
14 that's available. We are confident after this important
15 scientific review and the analysis by staff that
16 everyone's concerns will be fully addressed. For these
17 reasons, we support the resolution. Thank you.

18 CHAIRPERSON NICHOLS: Mr. Caponi and then Tom
19 Jacob.

20 MR. CAPONI: Good afternoon, Madam Chair, members
21 of the Board.

22 My name is Frank Caponi with L.A. County
23 Sanitation District. I, too, would like to support the
24 resolution concerning waste energy.

25 This support has also been established by our

1 Board of Directors of the two cities and Los Angeles
2 County that signed a resolution also supporting an
3 exemption of our waste to energy.

4 I want to take this opportunity to thank staff.
5 This has been a long and hard process that's literally
6 gone on for years. And staff has worked diligently with
7 us. And I want to thank everybody involved in this. And
8 hopefully, one of these days we'll come to a full
9 resolution on this issue.

10 Just a quick note on the waste to energy. It had
11 been suggested earlier that waste to energy is in
12 competition with recycling. In reality, waste to energy
13 compliments recycling. We only take postrecycled waste.
14 The State of California is at about 60 percent diversion
15 right now. So we take postrecycled after that. When it
16 hits 75, it will still be postrecycled. It hit 90, it
17 would be still be postrecycled. If we ran out of paper
18 and cardboard, we would shut down. It's that simple.

19 We're looking with the carpet recycler, one of
20 the biggest in the state and most efficient. They have
21 about a 90 percent recycling of carpeting going on, best
22 in the world right now. They have gone ballistic thinking
23 our facility would shut down because they use our facility
24 for that ten percent they cannot recycle. And that's just
25 the reality. There's certain things out there you cannot

1 recycle. Technology will do it, but right now, they need
2 an alternative. And incineration is a good alternative.

3 I just want to say we support the staff on their
4 efforts to continue to study this problem, and we will
5 work with them very diligently. I'm hoping out of this
6 process -- I think Nick Lapis said earlier we need to take
7 a complete look at everything. And I would support that.
8 We need to look at everything.

9 And I think what you'll find out when you look at
10 everything is that waste management is an amazing success
11 story when it comes to greenhouse gas reductions.
12 Recycling reduces tremendous amounts of greenhouse gases.
13 You have passed through your early action measure a
14 landfill measure that now makes landfills in the state of
15 California the cleanest in the world. And I'm sure in the
16 updated Scoping Plan you're looking at Phase 2 of that.

17 Waste to energy is a net greenhouse gas
18 reduction. All in all, this industry has reduced
19 greenhouse gases to very, very low levels and continues to
20 do so. And we want to tell that story because it is a
21 true success story. Thank you.

22 CHAIRPERSON NICHOLS: Thank you. Did I miss you?

23 MR. JACOB: Tom.

24 CHAIRPERSON NICHOLS: Sorry. Flipped my page too
25 fast.

1 MR. JACOB: That's all right. I'm Tom Jacob.
2 I'm here representing the Chemical Industry Council of
3 California. Some of you may have encountered me in my
4 previous incarnation with DuPont. I'm very familiar with
5 the cap and trade issues with the arguments that Professor
6 Goulder was issuing. I was there in Geneva when Ilene
7 Clauson put the cap and trade on the table in the UN
8 Framework Convention in the mid-90s.

9 I do believe that if you're going to take on
10 climate change, you must achieve a cost-effective use of
11 capital over the long term. And that market mechanisms
12 such as cap and trade are necessary in order to do that.

13 However, that long-term benefit does not require
14 an auction. We are concerned that an auction does carry
15 short-term risks of costs that will ripple through an
16 already fragile economy, even to our small or medium
17 enterprises. We appreciate that these are being
18 addressed, but they're being addressed incrementally. And
19 we are not comfortable that is sufficient in the current
20 economic circumstances.

21 Allowances are not inherently a windfall. We are
22 at a very delicate economic state in California. And that
23 future is all the more uncertain because of what's going
24 on in Europe because of the stabilization in China.

25 And we believe that there is a very significant

1 potential for political forces to overtake auction revenue
2 and divert significant amounts of it from the use in
3 conjunction with achieving greenhouse gas goals.

4 Just a couple of final points regarding border
5 tax adjustments. Obviously, there's two dimensions to
6 those when you're dealing from the standpoint of the state
7 like California. State to state issues of movement of
8 goods and services, but also international. And this
9 issue of border tax adjustments is far from settled in
10 terms of its dynamics at the international level, let
11 alone from the perspective of a state as opposed to a
12 nation.

13 And finally, it's not just a question of getting
14 the policy right. Those decisions do have to be timely.
15 We appreciate the steps that have been taken in
16 recognition of this. But again, we're concerned with they
17 may not be sufficient.

18 Thank you very much. And again thank you to
19 staff for very forth right and welcoming manner in which
20 they've dealt with our members. We continue to get very
21 positive feedback about those incremental interactions.
22 Thank you.

23 CHAIRPERSON NICHOLS: Thank you. Okay.

24 Kassandra.

25 MS. GOUGH: Good afternoon, Chair Nichols and

1 Board members. Thank you for taking the afternoon to hear
2 from all of us.

3 My name is Cassandra Gough. I'm with Calpine,
4 the state's largest renewable energy producer and the
5 state's largest independent power reducer.

6 I'm pleased to report back to you today that
7 since I last spoke before you in June, we have made
8 significant progress on two of the three issues of concern
9 to Calpine.

10 The first issue is dealing with legacy contracts.
11 For those of us who have contracts that don't have
12 pass-through provisions, we've had very productive
13 conversations with staff on how to resolve those. And I
14 believe that's addressed in the resolution before you
15 today. So we look forward to working on the details on
16 that in 2013.

17 The second issue is on auction purchase limit.
18 As you recall, I testified that because of our size, we're
19 probably the largest obligated entity in the first
20 compliance period and we received no free allowances. The
21 auction purchase limit and holding limit are both
22 restrictive and really restrict our flexibility and will
23 impact the liquidity in the market.

24 On the auction purchase limit, we've had very
25 productive conversations with staff here again to talk

1 about increasing the auction purchase limit and levelizing
2 it among all parties. And so again, we wish that would
3 have happened in 2013, but we're glad to see forward
4 movement on that. And we hope to have that adopted and
5 finalized maybe even in time by the last auction in 2013.
6 So thank you for that.

7 The third issue of concern that is not addressed
8 in the resolution before you but was contained in the two
9 previous resolutions that the Board adopted is regarding
10 holding limits. And as you know, this is an issue for
11 many companies. But for I think all of those companies
12 except Calpine is a very serious issue for them in the
13 second compliance period. We're actually okay in the
14 second compliance period because it increases enough for
15 us to give us that head room and flexibility.

16 It's really the first compliance period that is
17 extremely difficult for us to terms of flexibility,
18 particularly in light of the fact that the utilities are
19 unlikely to provide us with any allowances for our tolled
20 contracts.

21 So I'm asking today that you include language
22 directing staff to continue these discussions on the
23 holding limit with the goal of getting some changes in the
24 proposed 2013 regulations.

25 So with that, I have put forward language that

1 I've given to staff and to Chair Nichols that would add
2 another whereas clause on the holding limit, that
3 "whereas, the holding limit should neither prevent covered
4 entities from acquiring sufficient allowances to comply
5 with cap and trade reg at the auction, nor to provide the
6 largest covered entities the flexibility the regulation
7 was designed to provide. All covered entities" -- and
8 then fast forward to the "be it further resolved" last
9 from the bottom on page three. We would add after the
10 "auction purchase limit," we added the words "and holding
11 limit."

12 And then at the end of that sentence we would
13 say, "and do not deny the largest entities the flexibility
14 the regulation was designed to provide all covered
15 entities."

16 We ask that you consider that language prior to
17 adopting the resolution today. Again, we look forward to
18 continuing our very productive conversations and hoping
19 that we can get these regulatory changes adopted sooner
20 rather than later. Thank you.

21 CHAIRPERSON NICHOLS: Thank you.

22 I know it's frustrating to all of us that once we
23 on the Board have made up our mind, that doesn't mean it
24 just happens. It could be a year from the time you
25 propose through the time there's actually a rule.

1 MR. WINEFIELD: Good afternoon. My name is Matt
2 Winefield. I'm the president and founder of Alta
3 Environmental. We're a firm of environmental engineers
4 and scientists. And already I'd like to digress from my
5 60 seconds of prepared comments by commenting on some
6 statements that were made earlier about refineries in
7 California being the most polluted or being the most
8 pollution in the world. That's patently untrue, I'm sure
9 if you check with the air districts in California, they
10 deem our refineries as the cleanest in the world. So back
11 to my prepared statement.

12 CHAIRPERSON NICHOLS: I think the Board knows
13 that

14 MR. WINEFIELD: After 15 years of sweat equity,
15 I'm am fortunate to have grown from a one-man outfit
16 working out of my second bedroom to a consultancy of 40
17 wonderful professionals. I frankly have the petroleum
18 industry and other manufacturers subject to AB 32 to thank
19 for the success. And I know that there are hundreds of
20 other small businesses, not just environmental
21 consultancies that are thankful as well for the same
22 reason.

23 My staff and I value CARB's continuous
24 involvement with interested stakeholders to ensure
25 refineries and other manufacturers don't close due to a

1 myriad of cost/benefit concerns associated with allowances
2 and leakage.

3 These cap and trade issues that are currently
4 unresolved are daunting to many of my clients. Two have
5 told me they are closing. And they are two of the 500 and
6 closing because of AB 32. The more daunting than any of
7 the regs I've encountered that I've observed in 25 years
8 in the industry. I was around are for reformulated fuels
9 and many other Clean Air Act, Clean Water Act and the
10 like. This is worse.

11 So I'm simply here to share feedback from clients
12 who want to close due to cap and trade as AB 32 currently
13 stipulates. You've listened keenly today to very real and
14 legitimate concerns with cap and trade. I look forward to
15 your prudent actions. I'd like to keep my staff employed.
16 And more self-servingly, I'd like to remain employed. I
17 thank you.

18 CHAIRPERSON NICHOLS: Thank you.

19 Paul Mason and Barbara Eastman.

20 MR. MASON: Thank you, Madam Chair. Paul Mason
21 with Pacific Forest Trust.

22 The down side of going 65th is all of your
23 comments have been stated at least once, so I'll try --

24 CHAIRPERSON NICHOLS: Oh, come on.

25 MR. MASON: I'll try not to repeat my prepared

1 statement.

2 I think it is useful to look back a little bit.
3 It's been over six years since the Legislature adopted AB
4 2. I can't even begin to estimate the number of hours
5 that your staff and this Board has put into the thoughtful
6 implementation. And I can't believe how transparent and
7 open the staff have been in meeting with stakeholders on
8 environmental side, on the industry side. It's been truly
9 impressive. And you deserve a huge amount of credit for
10 that. I heard that from a lot of different stakeholders
11 today.

12 It was a real drag at the time when Prop. 23 was
13 on the ballot two years ago. The up-side there was how
14 overwhelmingly supportive Californians were. That passed
15 by a wider margin than anything else on the ballot and got
16 more votes than the Governor. And won by well over 20
17 point. So the state of California is very much --

18 CHAIRPERSON NICHOLS: We don't remember that any
19 more. That was then.

20 MR. MASON: Years ago.

21 So you very much have the vast majority of
22 California still very dedicated to taking action on global
23 warming. And we've heard over and over that this is a
24 well-designed program. Perhaps the most well-designed Cap
25 and Trade Program you've seen in the world, having learned

1 from other examples out there that there is a reason why
2 we have an auction and why that helps send a price signal.

3 You've done a lot to account for the fact that
4 it's a difficult economic time. We've made a commitment
5 to look at these issues going forward.

6 I guess sort of stepping back and looking at the
7 broader context, it's really not surprising that the
8 entities that are the biggest emitters in California are
9 here at the eleventh hour saying, "Hey, can't we have more
10 free stuff? Do we really have to pay anything?" That's
11 entirely understandable. But you have every reason in the
12 world to proceed with the well-designed program that you
13 have right now. You've done an outstanding job engaging
14 the stakeholders designing thoughtful regulations. We
15 support you and encourage you to move forward.

16 CHAIRPERSON NICHOLS: Thank you so much.

17 Barbara Eastman here?

18 Jim Frassetto.

19 MR. FRASSETT: Thank you, Chairman and Board for
20 the opportunity to speak today.

21 My name is Jim Frassetto. I've been involved in
22 heavy industry in Southern California for the last 35
23 years. And currently, I'm semi-retired.

24 California already has the highest gasoline
25 prices in the nation. Coupled with strict regulations,

1 tremendous insurance costs, and other detrimental road
2 blocks to business, leakage, as you like to call it, has
3 become a massive sucking sound headed anywhere but to the
4 state of California. We have lost rubber, steel, ship
5 building, plating, the automobile industry, the aircraft
6 industry, 95 percent of independent refiners, amidst a
7 host of smaller manufacturing companies and even Hollywood
8 only produced six movies in the state last year where they
9 used to do 200.

10 If it costs \$100 to make an item today, after
11 cap and trade, it may cost \$120 to make the same item.
12 That cost will be passed on to the end user, you and I.
13 For gasoline to consumer, another cents per gallon is a
14 tax. We pay it at the pump. The refiners buy the credits
15 and pay CARB for the ability to make it, which splits the
16 money in a nebulous investment and the bad guys are the
17 oil companies. That will be the public perception of what
18 happens if cap and trade proceeds on the path we have all
19 deemed as equitable.

20 The Boston Consulting Group gave you a bird's eye
21 view of the catastrophe cap and trade will bring to our
22 state. Please consider where the pain is going to land,
23 squarely on every business in the state, big or small.
24 The Legislative Analyst's Office has suggested other ways
25 to meet the requirements of AB 32. And we hope you will

1 consider what they have put out there as a possibility.
2 Thank you for your time.

3 CHAIRPERSON NICHOLS: Thank you.
4 Kathryn and then Weston LaBarr.

5 MS. PHILLIPS: Thank you, Chairman Nichols.

6 I'm Katheryn Phillips with Sierra Club
7 California.

8 First, Chairman Nichols, I want to thank you for
9 your opening comments. Also, I'd like to associate my
10 organization with the incisive comments made earlier by
11 representatives of the Blue Green Alliance and the Union
12 of Concerned Scientists.

13 Finally, I'd like to underscore three points. It
14 is more than common for certain industry interests to laud
15 the notion of protecting the environment and working hard
16 to prevent any action that will actually protect the
17 environment.

18 My respected friends in the energy and oil
19 sectors are particularly adept at this strategy, and I've
20 seen it over the last dozen years.

21 Free allowances, my second point, are a free
22 ride. They don't accelerate GHG reductions. They simply
23 delay action by those who depend on those free allowances.
24 CARB -- if any of the Legislature is listening -- should
25 resist any temptation to increase the percentage of free

1 allowances.

2 And finally -- and this is sadly true -- climate
3 change is here. It's happening now. Just yesterday, the
4 Wall Street Journal reported about how the Chinese and
5 other entities are looking at debating competing about how
6 they're going to take advantage of the ability to cross
7 the Arctic because there as been so much snow cap or ice
8 caps melt.

9 We can't stop it. But we may be able to reduce
10 its impact if we act boldly. We need to resist the
11 tendency to procrastinate. We need to resist demands to
12 delay or role back or to start capturing the substantial
13 reductions we need to keep the climate effects we're
14 seeing from becoming even worse.

15 Therefore, I ask you to proceed with what you're
16 doing. And I'd like to mention that significantly my
17 organization who's not been one to embrace cap and trade,
18 but we are anxious to get the ball moving, to get
19 California into position the rest of the country into
20 position to actually reduce the impacts of climate change
21 and reduce our greenhouse gas emissions. Thank you.

22 CHAIRPERSON NICHOLS: Thank you.

23 We remember well the mail that we got against cap
24 and trade when we were working on the Scoping Plan. Okay.

25 Our last witness Mr LaBarr.

1 MR. LA BARR: Finally, right. Thanks for having
2 me.

3 My name is Weston LaBarr. I am here representing
4 the Long Beach Chamber of Commerce and our 1,000 diverse
5 members, businesses, organizations and individuals. Being
6 situated in a poor area, our members have been bearing the
7 cost of more environmental regulations than other areas
8 and it has been a struggle.

9 This is why we are extremely concerned about
10 costs that auction will impose to our businesses and the
11 industries they do business with, many of which are energy
12 intensive. These costs will make us even less competitive
13 than we are now.

14 We are already fighting to keep business flowing
15 through the Port of Long Beach because the higher costs
16 and red tape here has caused a lot of business to shift to
17 other locations. That has taken a tole on our local
18 economy.

19 The unemployment rate in the city of Long Beach
20 is 22 percent higher than the state average and 62 percent
21 than higher than the national average. We heard earlier
22 jobs will be lost. We need to save the jobs in Long
23 Beach, Los Angeles County and the South Bay Area. A lot
24 of those can be contributed to the port and refining
25 industries.

1 It's unthinkable to impose any additional costs
2 on our businesses when we can meet AB 32 goals without an
3 auction. Please protect our businesses and our economy by
4 increasing the number of allowances in the Cap and Trade
5 Program.

6 I just want to close by saying while I was out in
7 the audience, I read a very interesting article by the
8 Sacramento Bee with a title that says, "Air Pollution
9 Chief Rejects Calls to Change California's New Greenhouse
10 Gas Program." I really hope that the comments given to
11 you today were not falling on deaf ears. Thank you.

12 CHAIRPERSON NICHOLS: Thank you.

13 We've heard from the public at this point. We
14 now turn to the Board and some draft Resolution language
15 we have. I think we're okay to proceed with the document.

16 I know I have Board members who are leaving.

17 I just once again want to say this is not the
18 last word on this topic. One reason why I can assure you
19 your comments did not fall on deaf ears is this item is
20 going to be back in front of us in October for another
21 update before we actually move forward with the final
22 allocation of allowances and the auction that is currently
23 scheduled for November.

24 And I want to say here what I've said in other
25 places that if I personally am persuaded and obviously

1 taking advise from others, including our Market Advisory
2 Committee, et cetera, utilities who are immediately the
3 most subject to this, that we aren't ready to go to an
4 auction. We would not hesitate to postpone, reschedule,
5 or put off doing an auction.

6 What I think I heard today from the people who
7 have been most intimately involved with this, including
8 those subject to it, is we are on track. Not that we are
9 there. But we are proceeding along a path which will lead
10 us to a successful auction, assuming that we keep the
11 design of the program roughly the way it is. And there
12 are a number of specific items that are in this resolution
13 that make small but important adjustments to that
14 regulation that will have a big impact on certain
15 industries or organizations, like University of California
16 or electric-generating facilities, et cetera.

17 So we continue to work through these issues. And
18 as you've heard, we will be working on many of these items
19 even where we have a sense of direction from the Board.
20 We expect we'll be working on them next year and the year
21 after that and that we will be in an interactive learning
22 mode.

23 There is sort of a philosophical issue here. And
24 I hope the Legislative Analyst is basking in the glow of
25 having been quoted about 100 times here today, even though

1 their report was a little bit quoted out of context about
2 how you could get away without having an auction because,
3 although I read the report, too, and I read that line, I'm
4 not convinced by that, that they understood all of the
5 factors that go into a decision about what to do with that
6 last increment of allowances. Because, remember, it is a
7 fixed pool of allowances, assuming you're trying to use
8 this program to actually accomplish something for the
9 environment. And I hope we're not doing it just as some
10 sort of an idle exercise.

11 So we intend to try to make this program both
12 affordable and effective. That's the goal. And we are
13 listening to the comments that we hear. We also listen to
14 the concerns, but we have to try to go with the best
15 expert advise that we can from people who actually have
16 studied the economics of these situations and of the
17 different elements of the California economy and take that
18 as our overarching guiding star.

19 So that's enough comment from me for now. I
20 think starting down on this end, I know Supervisor Roberts
21 had to leave to catch a plane early and asked to be
22 allowed to go first. So here you are. Also because we
23 ignored you the last time.

24 BOARD MEMBER ROBERTS: Well --

25 CHAIRPERSON NICHOLS: We don't want to do that

1 again.

2 BOARD MEMBER ROBERTS: Thank you. I'll try to be
3 brief.

4 First of all, it was a consequence I wore a red
5 tie today. It wasn't to show support or anything else,
6 but I appreciate the red T-shirts.

7 This hearing has been different than I expected.
8 It's far more peaceful. I think we made significant
9 progress, and I'm pleased by that. I sited earlier the
10 Qualcomm and University of California situation. And I
11 know staff has worked very diligently on.

12 I'm seeing this LAO letter for the first time
13 today, and it raises all kind of puzzlement. And I'll
14 work with staff subsequent to this meeting to try to fully
15 understand that. It sounds like may be there is a hybrid
16 system out there also that we're looking at and I don't
17 know the implications of that. So I don't necessarily
18 have like to get into that.

19 I also note that the -- Tim Haines of the Water
20 District who spoke earlier this morning, but who didn't
21 speak to this issue, but I think his comments were equally
22 applicable to both -- would indicate that we're making
23 some progress on that front also.

24 And I want to thank all the people who testified
25 because it was far more pleasant than some of the earlier

1 meetings that we've had here. And I want to thank staff
2 for their work.

3 I'm satisfied with what needs to be done today.
4 And I think your comment that we still are going to be
5 looking at this with issues that have been raised today,
6 and I know I personally have work to do. Solar raised
7 some things that we will continue to work with them on.
8 And I'll work with staff on that.

9 The LAO letter is something I'll have to look
10 again a little bit. But I'm actually satisfied with where
11 we are and what's being proposed today.

12 CHAIRPERSON NICHOLS: Thank you.

13 Alex.

14 BOARD MEMBER SHERRIFFS: I had a couple questions
15 for staff. A couple businesses raised issues about
16 benchmarks and also leakage issues for whether they were
17 high risk, medium risk. And I was hoping I would be
18 reassured that those are issues that are continuing to be
19 looked at and worked on.

20 And then I also had a question about the staff's
21 response to the language offered by Calpine.

22 CHAIRPERSON NICHOLS: Do you want to Steve?

23 CLIMATE CHANGE PROGRAM EVALUATION BRANCH CHIEF

24 CLIFF: On the leakage risk, we're working with the
25 University of California to put together a contract to do

1 an updated leakage risk analysis. And we expect those
2 results to be out by sometime mid next year. So if it's
3 appropriate, then we would make recommendations to the
4 Board to change the leakage risk for various industries if
5 we believe that's warranted based on the results of this
6 analysis.

7 BOARD MEMBER SHERRIFFS: I was hearing not just
8 industry concerned, but particular businesses with
9 industries that were concerned how they were placed, I
10 think.

11 CLIMATE CHANGE PROGRAM EVALUATION BRANCH CHIEF
12 CLIFF: Sure. So the way we've done that analysis is to
13 look at the product itself that is competitive in a global
14 market. So that, by its nature, groups various businesses
15 within a particular category. We often call them a
16 sector. It would be refinery sector and so on, so forth.
17 So we'll be continuing to look at that.

18 As I said, we would recommend changes to the
19 Board. We have this categorization set up such that if
20 you're high leakage risk, which means you're going to have
21 a hard time passing along those costs and therefore it
22 would be likely your product output in California would
23 reduce and therefore potentially shift out of California.
24 So if you're high leakage risk, you receive a 100 percent
25 assistance factor throughout the life of this program.

1 It's not true that all industries in California
2 are high leakage risk. And our analysis that we presented
3 to support the regulation back in 2010 pointed that out
4 very clearly.

5 What we're doing now with this new analysis is to
6 use updated data and updated analytical methods in order
7 to do the best analysis that we can.

8 CHAIRPERSON NICHOLS: So may I interject on this
9 point? Because I think when we did this the first time,
10 if I'm not mistaken, this is the first time anybody had
11 ever tried to do this kind of analysis, at least at a
12 state level, even for a state with the economy the size of
13 California. So it's inevitable I think that there will be
14 new information that will improve it.

15 But the other thing is that it's kind of dynamic.
16 I would think almost by definition that economies are not
17 static and that, therefore, these risk assessments will
18 change and also the factors that you use, these
19 percentages that we used will probably be subject to some
20 changes as well.

21 So I don't know that it will make everybody
22 happy. Or it may make some people unhappy and the chips
23 will fall where they may.

24 But I think the important thing is to recognize
25 is this is an area where we need to do additional work.

1 And again, it would be so much easier if there were a
2 federal program that we were a part of. And we're still
3 not holding our breath, but it's one of those things where
4 inevitably I think the United States is going to begin to
5 take an interest in this topic and will begin to see some
6 greater action happening at the federal level that we can
7 look to as well. Anybody else on this end have a --
8 DeeDee or --

9 BOARD MEMBER LOVERIDGE: Just very quick comments
10 one six years going to study which you hear that
11 mentioned. I think one other theme which is here is
12 the -- we just didn't show up today and it happened.
13 There was enormous work by staff and negotiations and
14 hours involved in what we've heard today.

15 I like the language you offered, as Chair. I
16 think we want something that's affordable and effective.
17 I like that language. I think I agree with the message.
18 We need to stay the course. Beginning today, I heard
19 somebody say something, come to California. And I think
20 rather than talk about exits from California, we need to
21 talk about come to California, work on/for clean air
22 energy future.

23 BOARD MEMBER D'ADAMO: Well, I too just want to
24 compliment the witnesses. I agree, Supervisor Roberts, it
25 was pretty peaceful. And I especially appreciate the Blue

1 Green Alliance and the effort. I don't know if anybody is
2 still here. But the effort you all made to give very
3 specific recommendations and your coalition and just
4 really hope that you will be able to continue that hard
5 work.

6 I have been working kind of off and on on some of
7 these issues throughout the last year. And I know
8 firsthand staff has done an amazing job in pulling this
9 together. And obviously, we still have some remaining
10 pieces coming back in October. There's going to be future
11 hearings. But I've read through the resolution and I
12 think it's a good solid resolution and just want to
13 compliment staff for all their work.

14 Just a couple of areas. Wondering if the
15 language in the resolution, if staff, you believe it's
16 broad enough to address the out-of-state fuels issue and
17 the commitment to take a look at that.

18 Benchmarking, I don't see where it's specifically
19 mentioned. But I'm assuming that you have the discretion
20 to make adjustments. Looking at different benchmarking
21 methodologies, you have that ability to do that on your
22 own. So if not, you can just comment on that.

23 Holding limits, I still sort of struggle with
24 that. And I'd like to see staff continuing to work on
25 that. So if you could comment on whether the resolution

1 needs to incorporate it or if you're planning on
2 continuing to look at the holding limits issue.

3 And lastly, on the waste-to-energy issue, I'm
4 comfortable with the language, but just would like to see
5 if we could get a firm commitment from staff to come back
6 looking at the comprehensive waste stream.

7 So just want to make sure that the discussion is
8 not over. I know there's some language on that, but it's
9 just in a general nature want to make sure staff is
10 committed to looking at the broad issue. And of course,
11 what Nick Lapis mentioned about recycling opportunities.
12 Anything we can do to push the envelope on that.

13 CHAIRPERSON NICHOLS: I have some draft language
14 here I think staff prepared that expands on the language
15 that was in the draft before. I don't know if you want to
16 propose that now or if you want to wait until the end.
17 But they added a couple of sentences to that. And if that
18 is agreeable to you, I think it would be something that I
19 certainly would like to see.

20 BOARD MEMBER D'ADAMO: Yes. With the date, I
21 think that's terrific.

22 CHAIRPERSON NICHOLS: Great. Pass it along to
23 anybody else who is particularly interested in that.

24 Anything to add?

25 BOARD MEMBER RIORDAN: Just my thought about the

1 continuing evaluation of the trade exposure. I think
2 that's very important from my perspective because I think
3 we do have some unique businesses in California. And I'm
4 hoping when we do that continuing evaluation that it's on
5 sort of a face-to-face basis.

6 Now, did I hear correctly that there is to be a
7 study? Is that what I understood?

8 CHAIRPERSON NICHOLS: There was nodding of heads.
9 People need to say yes.

10 DEPUTY EXECUTIVE OFFICER COREY: Yes.

11 CLIMATE CHANGE PROGRAM EVALUATION BRANCH CHIEF
12 CLIFF: Yes, we're initiating the study. Actually, we did
13 a workshop on July 30 to talk to stakeholders about the
14 study we were undertaking. We took comment on that and
15 are modifying the basis of that study based on comments.

16 CHAIRPERSON NICHOLS: Okay.

17 BOARD MEMBER RIORDAN: And my thought would be
18 that we would ask those that we are contracting with to do
19 this work. That they meet with some of these businesses.
20 I think it's very important to understand the uniqueness.
21 And some of it is very, very unique. And I think that's
22 extremely important not just a quick analysis, but a real
23 analysis to get the intricacies of their business models
24 and their export and who their competitors are.

25 I do want to offer my congratulations to staff

1 for including so many issues in this resolution that
2 really resolve some of the outstanding concerns I think
3 people had. And that's not easy to do.

4 And to those who testified, maybe it's because of
5 your excellent testimony and work prior to this hearing
6 that that was accomplished in the resolution. It's a real
7 pleasure to look at the resolution that deals with really
8 most of the issues that were raised.

9 CHAIRPERSON NICHOLS: Okay. Ms. Berg.

10 BOARD MEMBER BERG: Thank you. I, too, want to
11 ditto my fellow Board members' comments, because it's
12 absolutely true; if we look at 60 days ago when we were
13 looking at this in June, the tone today was 100 percent
14 different.

15 Everybody has covered my list. The only thing I
16 have to add is really the issue of early credits that was
17 brought up by the glass manufacturers. And that was a
18 very compelling argument to me. And I'm not asking for
19 any additional language to be added. But the fact that we
20 do take a look at these industries that have been very
21 proactive, came up with solutions, whether they're better
22 to be lucky than smart, whether it supplies to greenhouse
23 gas, still, never the less, they have done things. They
24 are remarkably cleaner than their counterparts across the
25 country. And if that is the case, what should we be doing

1 about that. So again, I'm not asking for anything to be
2 added to the resolution, but it is on my radar.

3 CHAIRPERSON NICHOLS: Thanks. You took one of
4 the issues I also, which is a questions of what we do to
5 recognize people who have taken significant early action.
6 Because although we wrestled with this from the very
7 beginning when we first started dealing with AB 32, the
8 reality is that you want to be able to do more than give
9 people a pat on the head when they've done a lot.

10 So I think staff has heard this and is going to
11 be thinking about it as they go into the allocation and
12 also into the leakage risk analysis.

13 And one of the problems, as I think everybody now
14 sees, is that there's so many different boxes you can put
15 some of the same issues into. It can be under leakage
16 risk. It can be under added allowances for transition
17 assistance. You can look at benchmarking. There's all
18 these different ways you can slice the same basic set of
19 issues.

20 But the bottom line is that you know that you
21 need to find a way to address some particular situation
22 that may be inequitable. And that is the other thing. I
23 guess when I said the affordable and effective, I should
24 have added the word "equitable" too. That really is what
25 continues to drive this whole process is our search to

1 come up with the optimum set of parameters that will
2 achieve these things.

3 I'm hearing general support for the resolution
4 with the addition of additional language on
5 waste-to-energy to be specific about the further studies
6 to be done with Cal Recycle to do a more comprehensive
7 approach to end-of-life as we might call it for waste.

8 Is there anything else from staff's perspective
9 that we're missing here that you see? If not, we're going
10 to probably take a vote.

11 DEPUTY EXECUTIVE OFFICER COREY: I think we have
12 it covered.

13 CHAIRPERSON NICHOLS: Okay. In that case -- yes?

14 BOARD MEMBER D'ADAMO: I want to make clear about
15 the holding limits.

16 CHAIRPERSON NICHOLS: Oh, sorry.

17 BOARD MEMBER D'ADAMO: If we are going to
18 continue with that. I don't know that needs to go in the
19 resolution, but just they're going to continue to look at
20 it.

21 CHAIRPERSON NICHOLS: I have struggled with this
22 issue, as you have. And I know Kassandra Gough was good
23 enough to say that we had solved two of her three issues
24 and this is the one that she still holding onto.

25 I find that the purchase limit issue was very

1 sympathetic with because they're companies, lots of
2 facilities. They need to be able to buy enough allowances
3 at auction so they have to be out there every time there
4 is an auction, you know, to get enough to put into their
5 compliance account and to know they can comply at the end
6 of the day.

7 The holding limits issue is a little bit more
8 complicated because I think what it really means is they
9 would like to be able to play the market in allowances.
10 If we fix their purchasing option, they can have enough
11 allowances to fill up the pot they need to fill up and be
12 perfectly secure they will have enough allowances to
13 comply.

14 The holding limit is the thing that prevents them
15 from trading in allowances whenever it seems like it might
16 be more financially advantageous to do that. Now, you
17 know, they're not the only company that wants to do it and
18 there are companies that are going to have an easier time
19 because they're smaller and they don't have to have as
20 many Allowances to comply so they'll have an easier time
21 playing around in the market.

22 But I'm finding it hard to feel like that's an
23 issue that we have to address. But I'll be frank about
24 it. I don't think it's -- for me, it's not an ideological
25 issue. It's just a practical issue, I guess, as to what

1 would be the impact on the allowance market and
2 specifically energy prices from going in one direction or
3 another.

4 So if there is a way to analyze it that gives us
5 some additional information, then I would be in favor of
6 doing that. So I'm again looking back at our craft team
7 to ask if there is a way we can do this.

8 CLIMATE CHANGE PROGRAM EVALUATION BRANCH CHIEF

9 CLIFF: So we have contracted with a market simulations
10 group, and they will be evaluating the holding limit. In
11 the Resolution 11-32 from last year, we said that we would
12 look at the holding limit for the second compliance
13 period.

14 I agree with you that making a change at this
15 point is really not practical. And we don't believe it's
16 warranted. Certainly, Calpine is able to comply with the
17 regulation the way that the holding limit is structured.
18 And they've said they don't have a problem in the second
19 compliance period. We just don't believe it's practical
20 at this time to try to make a change this late in the
21 game.

22 CHAIRPERSON NICHOLS: Is that okay?

23 BOARD MEMBER RIORDAN: But you would do the
24 analysis; correct?

25 CLIMATE CHANGE PROGRAM EVALUATION BRANCH CHIEF

1 CLIFF: Absolutely. For the second compliance period, we
2 believe it's important to continue to analyze this issue.

3 BOARD MEMBER RIORDAN: I think that would be an
4 interesting analysis.

5 BOARD MEMBER BERG: I just want to make sure she
6 said they didn't have second. But does that mean they
7 don't have a problem for the first either?

8 CLIMATE CHANGE PROGRAM EVALUATION BRANCH CHIEF

9 CLIFF: They're able to comply with the regulation for
10 sure in the first compliance period, that's correct.

11 DEPUTY EXECUTIVE OFFICER COREY: Just to add, Ms.
12 Berg, the distinction between the three items: The legacy
13 contracts, the purchase limits. We were persuaded by
14 virtue of the analysis and recommendation brought here
15 that there was an issue to deal with when persuaded on the
16 holding limits.

17 CHAIRPERSON NICHOLS: All right. Do I have a
18 motion to approve Resolution 12-33 as amended?

19 BOARD MEMBER BERG: So moved.

20 BOARD MEMBER RIORDAN: Second.

21 CHAIRPERSON NICHOLS: All in favor, please say
22 Aye.

23 (Ayes)

24 CHAIRPERSON NICHOLS: Opposed?

25 None. No abstentions.

1 All right. Thank you all very much. And we'll
2 see I'm sure many of you again in October.

3 (Whereupon the Air Resources Board adjourned
4 at 4:19 p.m.)

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CERTIFICATE OF REPORTER

I, TIFFANY C. KRAFT, 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 hearing was reported in shorthand by me, Tiffany C. Kraft, a Certified Shorthand Reporter of the State of California, and thereafter transcribed into typewriting.

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

IN WITNESS WHEREOF, I have hereunto set my hand this 8th day of October, 2012.

TIFFANY C. KRAFT, CSR, RPR
Certified Shorthand Reporter
License No. 12277