

MEETING
STATE OF CALIFORNIA
AIR RESOURCES BOARD

CALEPA HEADQUARTERS
BYRON SHER AUDITORIUM
SECOND FLOOR
1001 I STREET
SACRAMENTO, CALIFORNIA

THURSDAY, SEPTEMBER 22, 2016

9:04 A.M.

JAMES F. PETERS, CSR
CERTIFIED SHORTHAND REPORTER
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A P P E A R A N C E S

BOARD MEMBERS:

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Ms. Sandra Berg, Vice Chair

Dr. John Balmes

Mr. Hector De La Torre

Mr. John Eisenhut

Senator Dean Florez

Supervisor John Gioia

Ms. Judy Mitchell

Mrs. Barbara Riordan

Supervisor Ron Roberts

Supervisor Phil Serna

Dr. Alex Sherriffs

Professor Daniel Sperling

Ms. Diane Takvorian

STAFF:

Mr. Richard Corey, Executive Officer

Dr. Alberto Ayala, Deputy Executive Officer

Ms. Edie Chang, Deputy Executive Officer

Mr. Kurt Karperos, Deputy Executive Officer

Ms. Ellen Peter, Chief Counsel

Mr. Edward Wong, Ombudsman

Ms. Emily Wimberger, Chief Economist

A P P E A R A N C E S C O N T I N U E D

STAFF:

Ms. Brieanne Aguila, Manager, Climate Change Reporting Section, ISD

Mr. Jim Aguila, Chief, Climate Change Program Planning and Management Branch, ISD

Ms. Kirsten King Cayabyab, Air Pollution Specialist, Air Quality Planning and Science Division(AQPSD)

Ms. Mary Jane Coombs, Manager, Program Development Section, ISD

Mr. Chris Gallenstein, Staff Air Pollution Specialist, Project Assessment Branch, ISD

Mr. Michael Gibbs, Assistant Executive Officer, Executive Office

Mr. Jason Gray, Chief, Climate Change Program Evaluation Branch, ISD

Mr. David Hults, Senior Attorney, Legal Office

Mr. Larry Hunsaker, Staff Air Pollution Specialist, Greenhouse Gas Emission Inventory Branch, Air Quality Planning and Science Division

Ms. Karen Magliano, Division Chief, AQPSD

Ms. Rajinder Sahota, Assistant Division Chief, ISD

Mr. Craig Segall, Senior Attorney, Legal Office

Mr. Mark Sippola, Air Resources Engineer, Program Development Section, ISD

Ms. Carol Sutkus, Manager, South Coast Air Quality Planning Section, AQPSD

Mr. John Swanson, Air Pollution Specialist, Climate Change Reporting Section, Industrial Strategies Division(ISD)

Mr. Jonathan Taylor, Assistant Division Chief, AQPSD

A P P E A R A N C E S C O N T I N U E D

STAFF:

Ms. Sylvia Vanderspek, Branch Manager, Air Quality
Planning Branch, AQPSD

Mr. Floyd Vergara, Division Chief, ISD

ALSO PRESENT:

Ms. Fariya Ali, Pacific, Gas & Electric

Mr. Ivan Altamura, Global Automakers

Mr. Andrew Antwih, Los Angeles County Metropolitan
Transportation Authority

Mr. Steven Arita, Chevron Corp

Mr. Nathan Bengtsson, Pacific, Gas & Electric

Ms. Susie Berlin, Northern California Power Agency/MSR
Public Power

Mr. Brian Biering, Turlock Irrigation District

Mr. Neil Black, California Bioenergy, LLC

Mr. Louis Blumberg, Nature Conservancy

Ms. Leslie Bryan, Redding Electric Utility

Ms. Julia Bussey, Chevron U.S.A

Mr. Todd Campbell, Clean Energy

Mr. Tim Carmichael, Southern California Gas

Ms. Rebecca Claassen, Food & Water Watch

Ms. Jan Dietrich, Rincon-Vitova Inspectaries, Inc.

Mr. Steven Douglas, Alliance of Automobile Manufacturers,
Inc.

Ms. Deb Emerson, Sonoma Clean Power

A P P E A R A N C E S C O N T I N U E D

ALSO PRESENT:

Mr. Nick Facciola, Origin Climate Inc.

Ms. Caroline Farrell, Center for Race, Poverty and the Environment

Ms. Eloisa Fernandez

Mr. Juan Florez, Center for Race, Poverty and the Environment

Ms. Estela Garcia

Ms. Hannah Goldsmith, California Electric Transportation Coalition

Ms. Valerie Gorospe, Center for Race, Poverty and the Environment

Ms. Laura Gracia, Communities for a Better Environment

Mr. Dan Griffiths, California Municipal Utilities Association

Ms. Erin Grizard, Bloom Energy

Ms. Michele Hasson, Center for Community Action and Environmental Justice

Ms. Emily Heffling, Union of Concerned Scientists

Ms. Gloria Herrera

Mr. Lenny Hochschild, Evolution Markets, International Emissions Trading Association

Mr. Henry Hogo, South Coast Air Quality Management District

Ms. Bonnie Holmes-Gen, American Lung Association

Mr. Jack Horowitz, Earth Innovation Institute

Ms. Kathleen Hughes, Silicon Valley Power

A P P E A R A N C E S C O N T I N U E D

ALSO PRESENT:

Mr. Jason Ikerd, Glass Packaging Institute

Mr. Paul Jablonski, California Transit Association, San Diego Metropolitan Transit System

Mr. Alex Jackson, Natural Resources Defense Council

Mr. Shrayas Jatkar, Coalition for Clean Air

Ms. Adrianna Kripke, San Diego Gas & Electric

Mr. John Larrea, California League of Food Processors

Mr. Thomas Lawson, California Natural Gas Vehicle Coalition

Ms. Shana Lazerow, Communities for a Better Environment

Mr. Ludovino Lopes

Ms. Yvette Lopez-Ledesma, Pacoima Beautiful

Mr. Bill Magavern, Coalition for Clean Air

Mr. Adrian Martinez, Earthjustice

Ms. Lupe Martinez, Center for Race, Poverty, and the Environment

Ms. Anabel Marquez

Ms. Julia May, Communities for a Better Environment

Mr. Francisco Mendez

Ms. Erica Morehouse, Environmental Defense Fund

Ms. Amy Mmagu, Cal Chamber

Mr. Sean Neal, Modesto Irrigation District

Mr. Brent Newell, Center for Race, Poverty and the Environment

A P P E A R A N C E S C O N T I N U E D

ALSO PRESENT:

Mr. Ken Nold, Turlock Irrigation District

Mr. Graham Noyes, Low Carbon Fuels Coalition

Ms. Rachael O'Brien, Agricultural Council

Mr. Francisca Oliveira de Lima Costa

Ms. Sofia Parino, Center for Race, Poverty and the
EnvironmentCenter,

Ms. Cindy Parsons, Los Angeles Department of Water and
Power

Gema Perez

Mr. Michael Pimentel, California Transit Association

Ms. Kristin Power, Consumer Specialty Products Association

Mr. Bruce Ray, Johns Manville

Ms. Tiffany Roberts, Western States Petroleum Association

Ms. Rosalva Ruiz

Ms. Phoebe Seaton, Leadership Counsel for Justice and
Accountability

Mr. Michael Shaw, California Manufacturers & Technology
Association

Mr. Samir Sheikh, San Joaquin Valley Air Pollution Control
District

Mr. Chris Shimoda, California Trucking Association

Ms. Robin Shropshire, Panoche Energy Center

Mr. Todd Shuman, Wasteful Unreasonable Methane Uprising

Mr. Mikhael Skvarla, California Council for Environmental
and Economic Balance

A P P E A R A N C E S C O N T I N U E D

ALSO PRESENT:

Mr. Adam Smith, Souther California Edison

Mr. Paul Spitzer, Avan Gold Renewables

Ms. Madeline Stano

Ms. Janet Stromberg

Ms. Shelly Sullivan, Climate Change Policy Coalition

Ms. Nancy Sutley, Los Angeles Department of Water and Power

Ms. Sarah Taheri, Southern California Public Power Authority

Ms. Mari Rose Taruc, Air Resources Board Environmental Justice Advisory Committee

Mr. Andre Templeton, Carbon Market Compliance Association

Ms. Felipa Trujillo

Mr. Michael Tunnell, American Trucking Association

Mr. Tim Tutt, Sacramento Municipal Utility District

Mr. Nicholas W. van Aelstyn, Sealaska Corporation

Ms. Amy Vanderwarker, California Environmental Justice Alliance

Ms. Kathleen Van Oston, United Airlines

Ms. Sandra Vasquez, Leadership Counsel

Ms. Diana Vazquez, Sierra Club

Mr. Ron Whitehurst

Ms. Monica Wilson, Global Alliance for Incinerator Alternatives

A P P E A R A N C E S C O N T I N U E D

ALSO PRESENT:

Mr. Jay Wintergreen, First Environment

Mr. Vincent Wiraatmadja, BYD Motors

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

2 VICE CHAIR BERG: Good morning, everyone, I'll
3 encourage everyone to take their seats. Our Chair Mary
4 Nichols is on her way here. And so we thought we would
5 get started with our morning. And she will be here very
6 shortly coming over from the airport.

7 The September 22nd 2016 public meeting of the Air
8 Resources Board will come to order. If you'll please
9 stand with me well do the Pledge of Allegiance.

10 (Thereupon the Pledge of Allegiance was
11 recited in unison.)

12 VICE CHAIR BERG: Clerk, if you'll please do the
13 roll call.

14 BOARD CLERK JENSEN: Dr. Balmes?

15 BOARD MEMBER BALMES: Here.

16 BOARD CLERK JENSEN: Mr. De La Torre?

17 Mr. Eisenhut?

18 BOARD MEMBER EISENHUT: Here.

19 BOARD CLERK JENSEN: Senator Florez?

20 Supervisor Gioia?

21 BOARD MEMBER GIOIA: Here.

22 BOARD CLERK JENSEN: Ms. Mitchell?

23 BOARD MEMBER MITCHELL: Here.

24 BOARD CLERK JENSEN: Mrs. Riordan?

25 BOARD MEMBER RIORDAN: Here.

1 BOARD CLERK JENSEN: Supervisor Roberts?

2 Supervisor Serna?

3 BOARD MEMBER SERNA: Here.

4 BOARD CLERK JENSEN: Dr. Sherriffs?

5 BOARD MEMBER SHERRIFFS: Here.

6 BOARD CLERK JENSEN: Professor Sperling?

7 BOARD MEMBER SPERLING: Here.

8 BOARD CLERK JENSEN: Ms. Takvorian?

9 BOARD MEMBER TAKVORIAN: Here.

10 BOARD CLERK JENSEN: Vice Chair Berg?

11 VICE CHAIR BERG: Here.

12 BOARD CLERK JENSEN: Chair Nichols?

13 Madam Vice Chair we have a quorum.

14 VICE CHAIR BERG: Thank you very much.

15 It's looking a little bit lopsided.

16 (Laughter.)

17 VICE CHAIR BERG: I'm not sure how this is
18 shaping up for the day, but -- yes, please. I'm going to
19 scoot over a little.

20 (Laughter.)

21 BOARD MEMBER SPERLING: It's the left wing taking
22 over.

23 (Laughter.)

24 VICE CHAIR BERG: Yes.

25 So our fellow Board members will be joining us

1 and we'll look forward to that.

2 I do have a few announcements before we get
3 started this morning. Interpretation services are
4 available in Spanish for 3 of our items today, which are
5 the proposed amendments for the mandatory reporting, the
6 Cap-and-Trade Regulation, and the proposed compliance plan
7 for the federal Clean Power Plan.

8 Headsets are available at the commencement of
9 each of those items outside the hearing room, and the
10 attendant you can sign up with. And we have a translator
11 here, and if you would please relay that information.

12 (Thereupon the translation occurred.)

13 VICE CHAIR BERG: Thank you very much. Anyone
14 willing to testify today should fill out a request to
15 speak card. And they're available outside the lobby of
16 our Board room here. Please turn them in to the Board
17 Assistant or the Clerk of the Board prior to the
18 commencement of the item. We'd like to remind the
19 speakers that we do impose a 3 minute limit, and we really
20 want to encourage you to give your testimony in your own
21 words. If you have written testimony, that will be
22 provided to us. And it's often easier for us to
23 understand what your concerns are if you give your
24 testimony in your own words.

25 For safety reasons, I'd like to note the

1 emergency exits are at the rear of the room. In the event
2 of a fire alarm, we are required to evacuate the room
3 immediately, go downstairs, and out of the building. When
4 an all-clear signal is given, we will return to the
5 hearing room and reserve -- resume the hearing.

6 So with that, we're ready to start. However,
7 this morning, I would like to take Vice Chair prerogative,
8 and just insert that in front of my fellow Board members
9 is a program, Superior Accomplishments Award 2015.
10 Annually, ARB asks that each one of the key managers
11 submit a outstanding individual within their departments
12 to be recognized.

13 And I had the pleasure to be able to be one of
14 the hosts of this wonderful award ceremony earlier this
15 month in September. Both Richard and Alberto were busy at
16 UC Davis with a ZEV workshop that they were needed for,
17 and I was asked -- oh, and Mary -- it was a great day,
18 because Mary was participating in the signing of AB -- SB
19 32. And so it was wonderful to be able to participate in
20 this really, really fine event.

21 And the number of people, the number of projects,
22 the things that often go behind the scenes that we don't
23 have absolute -- it was -- that you got to really see. It
24 was really terrific. The award ceremony was held in this
25 room, and it was packed, not only with employees but

1 family members. And it was a really, really touching.

2 I would really recommend that, Mr. Corey, that
3 you let the Board know the dates for next year, and
4 anybody -- any of the Board members that could
5 participate, it's a great event. Two hours of truly
6 recognizing fine, fine accomplishments. And, Mr. Corey,
7 I'd really love it if you would just give us a little bit
8 of background on the awards and -- for our Board members.

9 EXECUTIVE OFFICER COREY: Yes. Thanks, Vice
10 Chair Berg. And your recommendation, in terms of Board
11 member participation going forward, is really excellent.
12 The impact your participation had was -- staff are still
13 talking about it. It was very much appreciated. So going
14 forward, this is something I will be seeking out Board
15 members.

16 But to your point, as many of you noted over
17 the -- over the years, our staff is amazing. Their
18 creativity, drive, passion for what they do really is
19 foundational to the success and the history of this
20 organization. And what we try and do annually -- or what
21 we do annually is recognize the staff, their
22 contributions. We reflect on the year that has past, look
23 back on those accomplishments before we, you know,
24 continue for the year ahead, which will always be really,
25 really challenging.

1 And in thinking about that for both Sacramento
2 and El Monte, we have the same recognition in both our key
3 locations. And what that entails is recognizing a range
4 of staff for a broad diversity of accomplishments. In
5 fact, if you look the announcement or the program, you'll
6 see accounting streamlining, IT-related work, the Advanced
7 Clean Car effort, the monitoring work that was done on
8 Aliso Canyon, the hydrogen fueling station effort, the
9 Sustainable Freight Strategy work, and many, many others
10 that it's, from our perspective, do good to just pause and
11 look back and reflect a bit.

12 And as part of the wards, we also recognize -- we
13 have a Sustained Superior Accomplishment Award. Those
14 staff that have really performed really on a sustained
15 basis for the last several years and recognize them.

16 In addition to that, we also have our Global
17 Award. Now, we refer to that as our lifetime achievement
18 award for ARB. And they're actually quite rare. We've
19 given out about 2 dozen over the last many, many years.
20 And this year there were two, and -- in El Monte, we
21 recognized Jackie Lourenco. She started with ARB as a
22 student assistant engineer in 1981. 1981. She's with ARB
23 for 35 years, and has been instrumental in on-road,
24 off-road, mobile source control.

25 If you added up the emission reductions that she

1 has had a direct hand in and looked at the public health
2 benefits, you'd be blown away. Amazing work. Someone
3 that's really truly worthy of that recognition and that
4 award.

5 In Sacramento, it was Ajith Kaduwela, a premier
6 atmospheric chemist, recognized nationally -- ARB is
7 recognized nationally for the modeling, particularly PM2.5
8 particulate modeling. He teaches nationally. He's
9 recognized around the world, and has truly put ARB on the
10 map with respect to that work. And not only that, the
11 role he plays in mentoring and bringing staff along, which
12 is a key element.

13 We have these just stellar talent, but also the
14 investment that is being put in to the next generation of
15 scientists, and those that are going to continue to move
16 us forward on our mission. So it was a great experience,
17 great opportunity, and I'm taking to heart Vice Chair Berg
18 your recommendation in terms of Board member
19 participation, which I think will be mutually beneficial.
20 So thank you.

21 VICE CHAIR BERG: Well, thank you. Mary had
22 always said that this was one of her favorite events. And
23 after participating, and the enthusiasm, it is very
24 obvious as to why. So please get this on our calendar for
25 next year, and I, for one, will be very enthusiastic to be

1 there. So thank you. And congratulations. I think on
2 behalf of the Board, we would absolutely say
3 congratulations to everyone at ARB that was recognized
4 during September. So thank you.

5 Well, this morning we do have a consent item, but
6 the consent item has come off of the consent agenda,
7 because we do have two people that would like to speak on
8 this item.

9 So I will go to my off-consent Chair statement.

10 (Laughter.)

11 VICE CHAIR BERG: This, I'm still learning --

12 (Laughter.)

13 VICE CHAIR BERG: -- but I'm on the right page.

14 Okay. So our first item is Item number 16-8-1.
15 And it is a item to consider the ozone designation
16 recommendation for the revised National Ozone Standard at
17 70 parts per million. We do have two people requesting to
18 speak. And so I will turn it over to Mr. Corey to
19 summarize this item.

20 Except now, I'm getting -- stay tuned, I'll be
21 right back with you.

22 (Laughter.)

23 VICE CHAIR BERG: You know sometimes it's just a
24 test --

25 (Laughter.)

1 VICE CHAIR BERG: -- but I'm up for it.

2 I'll be speaking to these two people that I
3 personally know -- no, actually, their comments apply to a
4 different item. And so they're going to reserve their
5 comments for an item that's not on the consent agenda.

6 So back to my previous page where I will now
7 state that we have a consent item, and the Board Clerk has
8 just informed me that nobody has signed up to testify.

9 And so now I'd like to ask my fellow Board
10 members if anybody would like it to be removed from the
11 consent item.

12 Seeing none.

13 I will close the record on this agenda item. And
14 given that we've had an opportunity to review this
15 resolution, can I have a motion and a second to adopt.

16 BOARD MEMBER SHERRIFFS: Move the item.

17 BOARD MEMBER BALMES: Second.

18 CHAIR NICHOLS: All in favor?

19 (Unanimous aye vote.)

20 VICE CHAIR BERG: Opposed?

21 Anybody abstaining?

22 Wonderful.

23 So our second Item is 16-8-6. And it is the
24 proposed 2016 State strategy for the State Implementation
25 Plan or the State SIP Strategy, which staff released for

1 public comment in May.

2 Statewide, about 12 million Californians live in
3 communities that exceed the federal ozone and PM2.5
4 standards, and the health and economic impacts of
5 exposures to elevated levels of ozone and PM2.5 in
6 California are considerable. Over the next 15 years, to
7 address these concerns, California will need to build upon
8 its successful efforts in order to meet critical air
9 quality and climate goals.

10 This is the first of two hearings on the State
11 Sip Strategy. There will not be of a vote. However, we
12 will be looking for direction from our Board. Today is an
13 informational briefing, and an opportunity for public
14 comment and to give staff direction on how to proceed.

15 I look forward to the Board discussion here
16 today, and its important effort to provide a foundation of
17 much of ARB's work over the coming years.

18 Mr. Corey, will you please introduce this item?

19 EXECUTIVE OFFICER COREY: Yes. Thanks, Vice
20 Chair Berg. Given the significance of mobile source
21 emissions in California, the State Sip Strategy is a
22 critical element of California's State Implementation
23 Plan, or SIP.

24 (Thereupon an overhead presentation was
25 presented as follows.)

1 EXECUTIVE OFFICER COREY: SIPs consist of a
2 combination of State and local air quality planning
3 documents that together must demonstrate how California
4 will meet federal air quality standards.

5 Given the severity of the challenge in the South
6 Coast, and the San Joaquin Valley, substantial reductions
7 from both mobile and stationary sources will be necessary
8 to meet ozone and PM2.5 standards in these regions.

9 The State Sip Strategy represents the State's
10 action to achieve the emission reductions from mobile
11 sources and consumer products that are needed over the
12 next 15 years. Meeting the standards will pay substantial
13 dividends in terms of reducing costs associated with
14 emergency room visits and hospitalizations, lost work and
15 school days, and most critically premature mortality.

16 This year's SIPs are therefore an important step
17 in bringing healthy air quality to all Californians.
18 Today's presentation will be the first, as noted, of 2
19 hearings on the State SIP Strategy.

20 Today, staff will present the proposed strategy
21 and solicit comments from the Board and the public. In
22 January of 2017, staff will present for Board's
23 consideration the State SIP Strategy, and final
24 Environmental Analysis.

25 I'll now ask Kirsten Cayabyab of the Air Quality

1 Planning and Science Division to begin the staff
2 presentation.

3 Kirsten.

4 AIR POLLUTION SPECIALIST CAYABYAB: Thank you,
5 Mr. Corey. Good morning, Vice Chair Berg and members of
6 the Board.

7 --o0o--

8 AIR POLLUTION SPECIALIST CAYABYAB: In today's
9 presentation, I'll provide an overview of the proposed
10 State Sip -- State strategy for the State Implementation
11 Plan released on May 17th.

12 The strategy is a key component of SIPs for the
13 South Coast and San Joaquin Valley, the areas of the State
14 with the greatest air quality challenges. Today's item
15 will provide an opportunity for continued stakeholder
16 input and Board direction on development and revisions to
17 the strategy. Based on that feedback, we will bring back
18 a final strategy for the Board's consideration in January.

19 --o0o--

20 AIR POLLUTION SPECIALIST CAYABYAB: I'd like to
21 start by framing the importance of the strategy. Mobile
22 sources and the fossil fuels that power them are the
23 largest contributors to the formation of ozone, PM2.5,
24 diesel particulate matter, and greenhouse gas emissions in
25 California. They are responsible for over 80 percent of

1 smog-forming oxides of nitrogen emissions, nearly 50
2 percent of greenhouse gas emissions, and over 90 percent
3 of diesel particulate matter emissions.

4 Given these contributions, we have taken an
5 integrated planning approach in developing a Mobile Source
6 Strategy to collectively meet California's air quality,
7 climate, and risk reduction goals.

8 --o0o--

9 AIR POLLUTION SPECIALIST CAYABYAB: Staff
10 presented a discussion draft of the Mobile Source Strategy
11 to the Board last fall and released an update in May 2016.
12 As an integrated plan, the Mobile Source Strategy has been
13 providing a framework to link multiple ARB planning
14 efforts currently underway.

15 Each plan shown on the chart draws elements from
16 the Mobile Source Strategy needed to meet its individual
17 goals. For example, the scoping plan will reflect the
18 mobile source actions that provide greenhouse gas
19 reductions. These actions were discussed at a scoping
20 plan workshop last week. The Short-Lived Climate
21 Pollutant Plan incorporates actions that reduce black
22 carbon.

23 The Sustainable Freight Action Plan draws on the
24 freight-related actions in the Mobile Source Strategy,
25 which supports the action plan's long-term vision for zero

1 emissions.

2 Finally, today we are focusing on the SIP
3 Strategy, which includes measures in the Mobile Source
4 Strategy that provide the criteria pollutant reductions
5 needed to meet air quality standards over the next 15
6 years.

7 CHAIR NICHOLS: Excuse the interruption, but I've
8 just been informed that we're having problems with the
9 webcast. I just want to let everyone who's watching or
10 trying to watch know that we're aware of the technical
11 difficulties and they're working on trying to fix it.

12 Thank you.

13 AIR POLLUTION SPECIALIST CAYABYAB: Thank you,
14 Chair Nichols.

15 --o0o--

16 AIR POLLUTION SPECIALIST CAYABYAB: With that as
17 background, in the next section of the presentation, I'll
18 describe the SIP development process.

19 --o0o--

20 AIR POLLUTION SPECIALIST CAYABYAB: So what is
21 the SIP?

22 The SIP is required by the federal Clean Air Act,
23 and serves as a framework for actions to meet health-based
24 air quality standards. It includes a comprehensive
25 technical foundation that provides the basis for

1 identifying the emission control strategy for a region.
2 It also provides the State's legal commitment to achieve
3 all of the needed reductions and the types of actions that
4 will be pursued.

5 The focus of this year's SIPs is on the 75 parts
6 per billion 8-hour ozone standard, and the 12 microgram
7 per cubic meter annual PM2.5 standard.

8 --o0o--

9 AIR POLLUTION SPECIALIST CAYABYAB: As I noted
10 earlier, the South Coast and San Joaquin Valley are the
11 focus of current SIP efforts. And the responsibility for
12 SIP development is shared between ARB and these air
13 districts. SIPs are first developed at the regional
14 level, and they must be approved by ARB before submittal
15 to EPA. The South Coast released its draft Air Quality
16 Management Plan, or AQMP, on June 30th.

17 This AQMP includes local measures for stationary
18 and area sources. The SIP strategy is incorporated into
19 the AQMP and provides measures for mobile sources, fuels,
20 and consumer products.

21 We have coordinated well with the South Coast on
22 draft AQMP. And as a result of that collaboration, the
23 draft AQMP includes measures that are intended to reflect
24 and support implementation of ARB's mobile source
25 measures. The South Coast plans to consider the AQMP in

1 December. The Board will then consider both the SIP
2 strategy and the AQMP in January 2017.

3 --o0o--

4 AIR POLLUTION SPECIALIST CAYABYAB: As you
5 recall, the Board approved the San Joaquin Valley's ozone
6 plan at the July Board meeting. While the current control
7 program is sufficient to meet the Valley's ozone
8 attainment needs, the SIP Strategy will provide important
9 additional reductions to accelerate rate ozone progress.

10 Work is still ongoing to define the strategy
11 needed to meet PM2.5 standards in the Valley. Given the
12 diversity of sources, the strategy will need to include
13 both local district actions, as well as strategic use of
14 incentives to increase the penetration of cleaner mobile
15 source technologies.

16 --o0o--

17 AIR POLLUTION SPECIALIST CAYABYAB: SIPs for the
18 South Coast in San Joaquin Valley as well as other regions
19 of the State consist of multiple elements. These include
20 the scientific and technical foundations provided by air
21 quality data, emission inventories, air quality modeling,
22 and technology assessments. This is an extensive
23 multi-year effort by both ARB and air districts to support
24 the development of the control strategy.

25 Along with these elements, the SIP also provides

1 ARB's legal commitment to undertake the actions needed to
2 implement the strategy.

3 --o0o--

4 AIR POLLUTION SPECIALIST CAYABYAB: The
5 scientific foundation begins with air quality data
6 gathered throughout the State. California's networks
7 consist of over 200 locations characterizing regional
8 exposure. This data helps us define the scope of the air
9 quality challenge as part of the initial process for
10 designating areas as attainment or nonattainment.

11 Statewide, about 12 million Californians live in
12 communities that exceed current ozone and PM2.5 standards.
13 Two areas of the State, the South Coast and the San
14 Joaquin Valley have the highest concentrations, as shown
15 to the map -- in the map to the left.

16 While the plan before you will provide important
17 public health benefits throughout the State and provide
18 emission reductions needed for the 70 parts per billion
19 ozone standard EPA finalized in 2015, the severity of
20 ozone levels in the South Coast and PM2.5 levels in the
21 San Joaquin Valley drive the scope and timing of needed
22 emission reductions.

23 --o0o--

24 AIR POLLUTION SPECIALIST CAYABYAB: The next step
25 is identifying key sources contributing to air quality in

1 each region. Emission inventories provide a comprehensive
2 accounting of emissions for sources throughout the State,
3 ranging from passenger cars to ocean-going vessels, and
4 use of consumer products to large industrial facilities.

5 Each SIP includes comprehensive updates to the
6 emissions inventory. This process began over 3 years ago
7 through a joint effort between ARB and district staff.
8 The inventory updates focused on both current emissions,
9 as well as forecasts of future levels based on current
10 control programs coupled with estimates of population and
11 economic growth. A key element included an extensive
12 update to ARB's mobile source emissions model.

13 As seen in this chart, due to the success of the
14 current control program, NOx emissions in the South Coast
15 are projected to decrease over 50 percent from today's
16 levels by 2031. While emissions of all mobile sources are
17 decreasing, as shown in the graphic, heavy-duty trucks in
18 red, and federal sources such as locomotives, ocean-going
19 vessels, and, aircraft in green, remain some of the
20 largest contributors. Therefore, the strategy must
21 address a wide variety of mobile sources.

22 --o0o--

23 AIR POLLUTION SPECIALIST CAYABYAB: Air quality
24 models then integrate air quality and emissions data,
25 along with weather with weather patterns to predict future

1 air quality. California's modeling is based on decades of
2 research and field studies, and has been regularly updated
3 to reflect the latest science in EPA model and guidance.

4 This modeling provides the basis for determining
5 the emission reductions needed for attainment, as well as
6 evaluating the benefits of controlling various precursors.

7 Over the last 2 years, ARB and district staff has
8 been collaborating on developing inputs, evaluating the
9 performance of the model, and conducting hundreds of
10 modeling runs to inform development of the strategy.

11 The result of this work has demonstrated the
12 effectiveness of NOx controls and the need for significant
13 NOx reductions to meet both ozone and PM2.5 standards.

14 --o0o--

15 AIR POLLUTION SPECIALIST CAYABYAB: As part of
16 current SIP efforts, air quality modeling shows that an
17 approximately 80 percent reduction in NOx will be needed
18 to reach the 75 ppb ozone standard by 2031 in the South
19 Coast. Implementation of the existing program provides a
20 significant downpayment achieving two-thirds of the needed
21 NOx reductions. These reductions are also sufficient to
22 provide the 50 percent reduction in NOx emissions needed
23 for attainment of the ozone standard in the San Joaquin
24 Valley.

25 As discussed earlier, meeting PM2.5 standards in

1 the valley is the valley's greater challenge. Staff will
2 be providing an initial discussion of the strategy needs
3 at next month's Board meeting in with full SIP
4 consideration next summer.

5 --o0o--

6 AIR POLLUTION SPECIALIST CAYABYAB: Building from
7 attainment needs -- building from attainment needs,
8 technology assessments evaluate the capabilities -- is
9 that working?

10 I think my -- building from attainment -- check.
11 Check

12 VICE CHAIR BERG: I don't -- I don't -- it's not
13 your microphone. We just had them take it down a hair,
14 because it was a little bit -- so they're going to fix it
15 for you.

16 AIR POLLUTION SPECIALIST CAYABYAB: Check.

17 Okay. Building from attainment needs, technology
18 assessments evaluate the capabilities of cost
19 effectiveness of new technologies and fuels. ARB staff,
20 in collaboration with EPA and the South Coast, began this
21 effort times on the status of technology in key sectors.
22 The assessments have demonstrated the great -- the next
23 generation of cleaner technologies is here today.

24 Light-duty zero emission technologies are gaining
25 market share and fueling infrastructure continues to

1 expand. A Cummins Heavy-duty natural gas engine has now
2 been certified to the optional low-NOx standard. And
3 heavy-duty zero emission technologies are currently being
4 demonstrated in applications such as transit buses and
5 delivery trucks.

6 --o0o--

7 AIR POLLUTION SPECIALIST CAYABYAB: These
8 technical components have informed the measures proposed
9 in the SIP Strategy, which consists of a comprehensive set
10 of actions for mobile sources, fuels, and consumer
11 products. The strategy is designed to provide ARB's
12 commitment to achieve all of the emission reductions
13 needed to meet air quality standards. As illustrated in
14 the graphic on the right, in aggregate these actions will
15 provide the overall 80 percent reduction needed in the
16 South Coast by 2031. The measures will also serve as a
17 foundation for future SIPs -- for future standards, such
18 as the 75 parts per billion 8-hour zone standard covered
19 in the consent time you just considered.

20 --o0o--

21 AIR POLLUTION SPECIALIST CAYABYAB: ARB's
22 commitment to achieve these reductions consists of 2
23 components, a commitment to take action on new measures
24 according to an implementation schedule, and a commitment
25 to achieve aggregate emission reductions by specific

1 dates.

2 If a particular matter does not achieve its
3 expected emission reductions, the Clean Air Act provides
4 flexibility to achieve those reductions from alternate
5 measures to meet the overall aggregate commitments.

6 Finally, once a SIP is submitted to EPA, the
7 commitment to attain the aggregate reductions and the
8 action dates becomes federally enforceable.

9 The next 2 slides delve more into each of these 2
10 components.

11 --o0o--

12 AIR POLLUTION SPECIALIST CAYABYAB: The first
13 part of the legal commitment is the proposed
14 implementation schedule. It identifies the timing for
15 bringing each measure to the Board or otherwise take
16 action, as well as initial implementation dates. These
17 actions proposed in the strategy include new regulatory
18 measures, petitions for federal action, and international
19 advocacy, as well as working with other State agencies,
20 such as the Bureau of Automotive Repair.

21 After the plan is approved by EPA, ARB's rule
22 development process for each proposed measure provides an
23 additional opportunity for public and stakeholder input as
24 well as further assessments of costs, feasibility, and
25 environmental impacts.

1 --o0o--

2 AIR POLLUTION SPECIALIST CAYABYAB: The second
3 element of the commitment is to achieve a defined level of
4 aggregate emission reductions. This reflects reductions
5 from both the current control program and new actions
6 needed to reach attainments.

7 Regulatory actions that establish requirements
8 for cleaner technologies comprise the core of the overall
9 strategy. The dark blue in the chart on the left
10 represents the regulatory reductions. So, for example,
11 existing regulations and new proposed regulations for
12 passenger cars provide 93 percent of the overall
13 reductions for the sector. For trucks, current and
14 proposed regulations provide 88 percent of the reductions.

15 The relative proportion of regulatory and
16 incentive reductions varies by sector reflecting
17 differences in the maturity of the current control program
18 authority and technology developments. Thus, for sources
19 regulated by EPA and international agencies and for
20 off-road sources, incentives will need to play a bigger
21 role. Overall, approximately 80 percent of the reductions
22 in the strategy come from regulations.

23 --o0o--

24 AIR POLLUTION SPECIALIST CAYABYAB: So what
25 actions are called for in the strategy?

1 The subsequent slide provides and overrule of the
2 proposed measures.

3 --o0o--

4 AIR POLLUTION SPECIALIST CAYABYAB: The SIP
5 Strategy proposes a comprehensive list of measures to
6 deploy the cleanest technology and fuels through a suite
7 of mechanisms. A key aspect is establishing more
8 stringent engines standards. The majority of the NOx
9 reduction results from these cleaner standards. The
10 strategy then includes a number of measures that build on
11 the new standards to increase the penetration of cleaner
12 burning and zero emission technologies across multiple
13 sectors.

14 These actions lay the groundwork for the
15 long-term transformation that will be needed as outlined
16 in the freight strategy. Zero emission technologies will
17 be especially important for risk reduction in
18 disadvantaged communities.

19 Along with these efforts, other measures ensure
20 that vehicle engines continue to operate as cleanly as
21 possible throughout their useful life. The strategy also
22 calls for expanding the use of cleaner renewable fuels and
23 conducting pilot studies and demonstrations to further
24 support the developments of new technologies.

25 Finally, measures in each sector provide pathways

1 to incentivize early deployment of these cleaner
2 technologies. In the next series of slides I'll highlight
3 a number of key actions, as well as how the approaches
4 being considered have been refined due to the continued
5 review and discussion with stakeholders.

6 --o0o--

7 AIR POLLUTION SPECIALIST CAYABYAB: For the
8 heavy-duty duty truck sector, combustion technology will
9 continue to dominate over the next 15 years. The SIP
10 Strategy therefore calls for establishing a new low NOx
11 standard that is effectively 90 percent cleaner than
12 today's standard, coupled with in-use performance
13 requirements to ensure the fleet continues to operate as
14 cleanly as possible and greater certification flexibility
15 for advanced technologies.

16 However, as out-of-state trucks account for
17 large -- for a large portion of truck activity, federal
18 actions to implement a national low NOx engine standard is
19 essential.

20 --o0o--

21 AIR POLLUTION SPECIALIST CAYABYAB: To facilitate
22 this effort, ARB staff have been working with EPA over the
23 past two years to support the development of a federal
24 low-NOx standard. Additionally, the South Coast and San
25 Joaquin Valley air districts in partnership with other

1 states recently submitted petitions to EPA requesting
2 federal action. As a result of this ongoing engagement,
3 in their final rule-making on the phase 2 GHG standards in
4 August, EPA signaled their intent to begin developing more
5 stringent federal NOx emission standards, in recognition
6 of the need to pursue a harmonized national strategy in
7 coordination with ARB.

8 ARB is strongly encouraged by this
9 acknowledgement, and will continue our collaboration
10 efforts on development of more stringent standards.

11 --o0o--

12 AIR POLLUTION SPECIALIST CAYABYAB: Establishing
13 cleaner engine standards is also critical for sources such
14 as locomotives and ocean-going vessels. Therefore, the
15 strategy includes a petition for EPA action to establish a
16 cleaner tier 5 engine standard for locomotives, along with
17 stricter standards for remanufactured locomotives.

18 ARB staff has begun development of this petition.
19 The strategy also includes a measure to advocate with
20 international partners for stricter international maritime
21 organization emission standards for ocean-going vessels.

22 --o0o-- care

23 AIR POLLUTION SPECIALIST CAYABYAB: For passenger
24 cars, the focus is on increasing the penetration of
25 zero-emission technologies. Building on the current

1 Advanced Clean Cars program, the strategy includes a
2 measure that will ensure the continued expansion of the
3 passenger ZEV market beyond 2026, while also increasing
4 the stringency of fleet-wide emission standards.

5 This would result in over 4 million zero emission
6 and hybrid passenger vehicles on the road by 2030. As
7 part of the continued technology assessments, staff will
8 be briefing the Board on the mid-term review for the
9 current Advanced Clean Cars program at the end of the
10 year. Similar to heavy-duty trucks, the strategy also
11 specifies actions to ensure that passenger vehicles
12 continue to operate as cleanly as possible.

13 --o0o--

14 AIR POLLUTION SPECIALIST CAYABYAB: To expand
15 ZEVs into heavier applications, the strategy includes
16 measures for introduction of advanced technologies and
17 applications that are well-suited to early adoption of
18 ZEVs, such as transit fleets and last mile delivery.

19 Staff has continued to evaluate appropriate
20 approaches for these sectors that take into account the
21 characteristics of public and private fleets and their
22 modes of service. For transit fleets, we have been
23 following up on your direction to staff from last
24 February's Board briefing.

25 In particular, this includes your direction that

1 any action on transit fleets must not lead to reduced
2 service, especially in disadvantaged communities. Staff
3 has been meeting with transit agencies to gather
4 information on costs to gain a better understanding of
5 transit agencies financing challenges.

6 Staff efforts are still at the data-gathering
7 phase, and no specific concepts have been developed.
8 Staff will continue to hold workgroup meetings throughout
9 this process.

10 For last mile delivery, the large delivery
11 companies have reached out to ARB staff to share their
12 interest in pursuing ZEVs in this sector. While very
13 interested in these technologies, they are concerned that
14 a purchasing requirement alone will not ensure that
15 manufactures can support the demand for trucks and ongoing
16 service and maintenance.

17 While the active participation of the delivery --
18 with the active participation of the delivery industry,
19 staff believes that this is an area that zero emission
20 technology can be put into service in the near term. ARB
21 staff will be initiating a stakeholder working group as
22 part of the measured development process that includes
23 both the delivery companies and the manufacturers.

24 Discussions will then include consideration of
25 both purchase and manufacturer requirements, ways to use

1 the advanced technology credit provisions EPA has included
2 in its phase 2 rule, and the role of incentives.

3 --o0o--

4 AIR POLLUTION SPECIALIST CAYABYAB: For off-road
5 equipment, zero emission technologies are becoming
6 increasingly available in certain applications. Thus,
7 measures will establish requirements for increasing use of
8 zero emission technologies for lawn and garden equipment,
9 forklifts, transport refrigeration units, and airport
10 ground support equipment.

11 In addition, technology assessments will be
12 conducted to assess the emission reduction potential from
13 increased worksite efficiencies and advanced technologies
14 such as connected vehicles and automation. Along with
15 other sectors, these measures provide the foundation for
16 longer term transformation to zero emission technologies.

17 --o0o--

18 AIR POLLUTION SPECIALIST CAYABYAB: In addition
19 to setting requirements for cleaner engine standards and
20 zero emission vehicles and equipment, the strategy also
21 includes measures to incentivize the development of these
22 cleaner technologies to ensure sufficient market
23 penetration by attainment deadlines.

24 These measures include a suite of potential
25 actions, which include: Incentive programs and advocacy

1 for further federal and international action, further
2 regulatory strategies, increasing system efficiencies, and
3 utilizing intelligent transportation systems, and emerging
4 autonomous and connected vehicle technologies such as
5 truck platooning.

6 --o0o--

7 AIR POLLUTION SPECIALIST CAYABYAB: Beyond
8 technology measures, the strategy includes development of
9 specifications for a cleaner low-NOx fuel. The low
10 emission diesel fuel standard would require that diesel
11 fuel providers sell steadily increasing volumes of
12 low-emission diesel until it comprises 50 percent of total
13 diesel sales by 2031. The proposed measure would be
14 phased in through a gradual implementation strategy that
15 starts in the South Coast and subsequently expands
16 statewide.

17 This measure is an important component of ARB's
18 renewable fuels program, as it would provide both NOx and
19 GHG benefits.

20 --o0o--

21 AIR POLLUTION SPECIALIST CAYABYAB: Finally, the
22 SIP strategy also includes a measure to reduce emissions
23 from consumer products. Consumer products, such as
24 personal, household, and automotive care products are the
25 largest source of ROG emissions in the South Coast.

1 Current regulations have been effective in substantially
2 reducing emissions from these products.

3 Looking forward, the primary focus of the measure
4 would be to maintain the success in light of population
5 growth. Approaches being considered include evaluating
6 categories with higher mass and reactivity, investing
7 concepts for expanding manufacturer compliance options,
8 and reviewing existing exemptions.

9 ARB staff is continuing to work with the consumer
10 products industry on potential emission reduction needs
11 and approaches for the sector.

12 --o0o--

13 AIR POLLUTION SPECIALIST CAYABYAB: In the final
14 section, I'll talk about what will be occurring over the
15 next several months.

16 --o0o--

17 AIR POLLUTION SPECIALIST CAYABYAB: Implementing
18 the SIP Strategy will require efforts not only by ARB, but
19 also local air districts, EPA, and other international
20 agencies. ARB staff is continuing to collaborate with the
21 South Coast and the San Joaquin Valley on developing a
22 comprehensive funding plan to identify overall funding
23 needs and financing mechanisms.

24 As part of this effort, the South Coast has begun
25 to map out a broad suite of potential funding mechanisms

1 at the local, State, and federal level. These approaches
2 will look to maximize criteria pollutants and GHG
3 reduction benefits. Distribution of incentive funds will
4 also need to consider mechanisms to ensure they benefit
5 disadvantaged communities.

6 To ensure that SIPs meet Clean Air Act
7 requirements, ARB is also working with EPA to develop the
8 appropriate programmatic structure to credit
9 incentive-based measures in the SIP. This includes
10 reductions from incentive funding that has already been
11 spent, appropriations that have not yet been distributed,
12 and future incentives where the funding needs still need
13 to be raised.

14 Finally, ongoing coordination is also underway
15 with other State partners to develop the necessary
16 infrastructure for advanced technologies and fueling
17 systems.

18 --o0o--

19 AIR POLLUTION SPECIALIST CAYABYAB: As part of
20 the SIP Strategy, an economic analysis assessed statewide
21 costs and benefits on affected industries as well as the
22 overall economy. The total direct cost of implementing
23 the proposed strategy is approximately \$60 billion over the
24 lifetime of the program. The actions and the strategies
25 support multiple planning efforts.

1 As such, the investments in cleaner technologies
2 and fuels provide multiple environmental benefits,
3 including ozone and PM2.5 attainment, greenhouse gas
4 reductions, and risk reduction.

5 --o0o--

6 AIR POLLUTION SPECIALIST CAYABYAB: Along with
7 the economic assessment, staff also released a draft
8 Environmental Analysis, which identified potentially
9 significant impacts for some resource areas.

10 We are in the process of preparing responses to
11 relevant comments received, which along with a final
12 Environmental Analysis, will be posted for the Board
13 consideration prior to the January Board hearing. Moving
14 forward, staff will continue with ongoing stakeholder
15 engagements. Based on that feedback and direction from
16 today's Board meeting, we will bring the SIP strategy back
17 for Board consideration in January.

18 Staff will also initiate actions for the proposed
19 measures, a number of which are slated for consideration
20 next year, as well as continue to work with the South
21 Coast on implementing mobile source measures at the local
22 level.

23 And, as I mentioned earlier, after the districts
24 adopt SIPs at the regional level, each area's plan,
25 including State and local components, will be brought to

1 the Board for consideration. Upon Board approval, the SIP
2 Strategy and area plans will then be submitted to EPA.

3 This concludes the presentation and we will be
4 happy to answer any questions from the Board.

5 CHAIR NICHOLS: Thank you. We have a list of
6 witnesses who've signed up. There are 20 of them, so it
7 fits neatly onto one page.

8 (Laughter.)

9 CHAIR NICHOLS: However, if you want to go over
10 to a second page, we would appreciate it if you would let
11 the Board clerk know, so that she can quickly spring into
12 action and put the rest of them together.

13 I want to say a word as Henry Hogo is coming up
14 here about to be our first speaker, about the context of
15 what we're doing here, because it just -- it's kind of
16 irresistible with this item being the first on our agenda.

17 So I think everybody knows, but we don't
18 necessarily always articulate that the mobile source
19 strategy and the SIP are at the core of what we do. They
20 are the foundation of what the Air Resources Board is,
21 what it was created to do, which was to reduce the impacts
22 on health of motor vehicles in the State of California,
23 and we've built our program really on this core of our
24 expertise.

25 As it happens, the pollutants that we are

1 focusing on in the SIP are the National Ambient Air
2 Quality Standards, which are defined in terms of health
3 effects of those particular pollutants that it covers, and
4 are not -- do not include explicitly either toxic air
5 contaminants that affect people also directly in
6 communities, or the global pollutants that we talk about
7 so much in terms of AB 32 and now SB 32.

8 An yet, the vehicles that we are talking about
9 here, and the fuels that we are talking about here are at
10 least as important in terms of their impact on those
11 pollutants, both the localized toxics and the global
12 pollutants, as they are on the pollutants that we deal
13 with in the SIP.

14 And so I guess in addition to that kind of
15 statement of the obvious, but hopefully as a -- just as a
16 reminder of what we're doing here, the reason for bringing
17 it up right now is that in the Environmental Assessment
18 that you're talking about, which needs to be done as part
19 of the SIP, it seems to me that we also need to be taking
20 into account the effects of these measures that we're
21 proposing on those other two areas of our responsibility,
22 as well as any other environmental impacts that they might
23 have -- that these strategies might have.

24 And I just want to make sure, and I guess I'm
25 really looking to Mr. Corey here, but others may wish to

1 join in, that we're -- that we have a process in place
2 that enables us to do that, because this is very hard
3 actually to be thinking on three plains at the same time,
4 and to be making sure that what we're doing is moving us
5 forward on all of them at the same time, especially when
6 it seems at least likely that some of the strategies are
7 going to be more beneficial in one area than they are in
8 another.

9 So this is a thought question here, and obviously
10 I didn't -- I wasn't planning on asking it, but I'd like
11 your comment anyway.

12 (Laughter.)

13 EXECUTIVE OFFICER COREY: Yeah. Mary, not one to
14 hold back. But in terms of the Environmental Assessment,
15 answering that question -- and you know at the plan stage,
16 they're conceptual, but the environmental characterization
17 is intended -- does need to answer that question as best
18 as we can. So to me, there are a few ways that it's
19 addressed.

20 One, as much specificity in the environmental
21 document, what the potential implications are for the
22 other pollutants you're talking about, and at a more
23 specific high resolution level when the individual
24 measures are developed and brought before this Board, in
25 other words a met mobile source measure that's targeted,

1 let's say, focusing on NOx, what are the implications of
2 that proposed measure with respect to toxics and GHG? So
3 the technical analysis would absolutely address that
4 question.

5 CHAIR NICHOLS: Okay. Thank you.

6 Mr. Hogo. Now, you're here.

7 MR. HOGO: Good morning, Chairman -- good
8 morning, Chairman Nichols and members of the Board. I'm
9 Henry Hogo Assistant Deputy Executive Officer at the South
10 Coast AQMD.

11 First, I would like to commend Mr. Corey and
12 staff for working closely with the South Coast District
13 staff in preparing not only the State Mobile Source
14 Strategy, but also the various technical elements of the
15 2016 Air Quality Management Plan for the South Coast Air
16 Basin and Coachella Valley.

17 The working, coordination, and cooperation
18 between the staffs of the two agencies over the last three
19 years is truly unprecedented. It is for this reason that
20 the South Coast District staff believes that we have a
21 strong plan to achieve clean air in Southern California.
22 The South Coast District staff has been involved from the
23 very beginning in the discussions on technical data, in
24 identifying areas to pursue further emission reductions
25 from mobile sources.

1 The draft State SIP Strategy is critical for the
2 South Coast region to attain federal ozone air quality
3 standards over the next 7 to 15 years, as well as the
4 federal fine particulate air quality standards.

5 The South Coast District staff recognizes the
6 challenges the State faces in developing regulatory
7 proposals to meet air quality standards, especially given
8 the existing regulatory requirements for new and existing
9 vehicles that extend out to the 2025 time frame. As such,
10 financial incentives will play a critical role in
11 accelerating the early retirement of older vehicles, while
12 at the same time incentivizing the purchase of the
13 cleanest commercially-available vehicles.

14 This includes the prioritization of zero emission
15 technologies wherever feasible, and near zero emission
16 technology everywhere else.

17 We are seeing greater numbers of zero emission
18 vehicle products being offered. However, zero emission
19 technologies are not yet feasible or available for every
20 vocation. As such, we need to begin incentivizing near
21 zero emission technologies wherever possible in order to
22 meet short-term attainment deadlines, and to realize real
23 improvements in public health as early as possible.

24 We believe that the approach of incentivizing
25 near zero emission technologies in near-term will not

1 cause delays in the development of zero emission
2 technologies, if we are able to incentivize fleets wisely.

3 However, additional near zero emission technology
4 products need to be developed and commercialized as
5 quickly as possible. This is why the South Coast AQMD
6 along with a broad-based national collation of over 16
7 co-signers and supporters petition U.S. EPA to develop new
8 ultra-low NOx engine emission standards. We are
9 encouraged that U.S. EPA will be starting this effort
10 shortly.

11 I would like to focus the remainder of my
12 comments on the proposed further development cleaner
13 technology measures.

14 The measures call for a significant amount of
15 emission reduction commitments to help the South Coast
16 region -- if I may?

17 CHAIR NICHOLS: Please, finish.

18 MR. HOGO: It's significant -- the measures call
19 for a significant amount of emission reduction commitments
20 to health the South Coast region attain federal air
21 quality standards. Implementation of these measures
22 require a combination of funding incentives in the near
23 term with potential regulatory actions in the longer term.

24 In addition, proposed implementation approaches
25 include quantification of emission reduction benefits from

1 operational efficiencies, and co-benefits of greater
2 deployment of autonomous vehicles, connected vehicles, and
3 intelligent transportation systems. Many perceive these
4 measures as black box in nature, given that there are
5 uncertainties in obtaining additional incentive funding
6 and the ability to quantify operational efficiency.

7 As such, the South Coast Air District is listed
8 as an implementing agency for the further deployment
9 measure. We have included 15 local mobile source measures
10 that are designed to provide additional certainty to the
11 further deployment measures. They propose a specific
12 process to identify additional emission reductions that
13 the further deployment measures can be approvable by U.S.
14 EPA and not be considered as black box measures. We truly
15 want to eliminate the black box.

16 The South Coast District has received a number of
17 comments that the district-proposed mobile source measures
18 are not needed, since they do not identify any associated
19 emission reductions and that the South Coast District
20 mobile source measures should be removed.

21 On the other hand, we have also received comments
22 that the proposed process does not go far enough to
23 provide that certainty, and that the South Coast District
24 should immediately begin rule development to require
25 affected sources to reduce emissions.

1 Given the challenges the region faces in meeting
2 the federal air quality standard by 2023, there is a need
3 to work collaboratively to achieve the needed emission
4 reductions in the near term. This is why the South Coast
5 District staff is proposing to work with the stakeholders
6 to enable their desire for action to clean our air, to, in
7 essence, trust that they will achieve their emission
8 reductions. Concurrently, we will strive to find
9 sufficient incentives funding or identify actions and
10 verify that the stakeholder's actions are real.

11 If we do not see commensurate stakeholder
12 progress, we will pivot and develop rules to bring about
13 the necessary requirements to achieve further emission
14 reductions. In essence, we will move towards regulatory
15 as -- the regulatory aspect and enforcement

16 So we're taking this approach that in the near
17 term we need to get these reductions very quickly, and --
18 in order to meet the further development deployment
19 measures that are in the State SIP. We believe we're
20 setting a process to do that, and we're going to give
21 ourselves one year to go through a collaborative process.
22 And if after one year, if we don't see sufficient funding
23 or identify sufficient actions, we will propose our Board
24 to do a rule-making.

25 CHAIR NICHOLS: Excuse me. Thank you. Are you

1 finished?

2 MR. HOGO: So basically concludes my -- I want to
3 say that we stand ready to work with your staff on moving
4 forward.

5 CHAIR NICHOLS: Okay. Thank you. I obviously
6 let you complete your statement, because it's very
7 interesting, and it's also not exactly typical testimony
8 on a presentation. You're really proposing a rather
9 complicated alternative. And this is ground that has been
10 litigated many times in many different places, as you
11 know, approvability of a SIP, and how strong the
12 commitments have to be, and how enforceable, and when.

13 So this is going to require quite a lot of
14 thought and communication between the State and the local
15 district around this issue. And I assure you we take it
16 very seriously. And I know in the past when needed, we've
17 convened a process where we've had board-to-board meetings
18 to resolve some of these questions as well. I don't know
19 if that's appropriate at this point, but it's certainly
20 something that we would stand ready to offer, if that
21 seems to be necessary, because there's -- this is really
22 breaking new ground here in many ways. And we need to
23 figure out how to accommodate the wishes of the District
24 while at the same time meeting our legal responsibilities
25 as well. So thank you for that.

1 MR. HOGO: Chair Nichol, if I may comment?

2 CHAIR NICHOLS: Yes.

3 MR. HOGO: We don't think it's an alternative.
4 It's really complementary that we're providing certainty
5 to those further deployment measures, so that they're not
6 treated as black box measures. And that's our approach to
7 work with your staff in moving forward with implementation
8 to get those reductions.

9 CHAIR NICHOLS: Okay. Well, I hope we'll be
10 hearing back before this comes back to the Board.

11 Thank you.

12 Mr. Sheikh.

13 MR. SHEIKH: Good morning, Chairman, members of
14 the Board. Thank you for the opportunity to provide some
15 brief comments on the strategy. I wanted to start off by
16 commending Mr. Corey, Mr. Karperos, Ms. Magliano, the
17 entire time, very big team that's worked on this strategy,
18 very comprehensive and highly complex, as we've all heard.

19 And as you know, the difficulty in meeting air
20 quality standards in the San Joaquin Valley is really
21 unmatched by any other region in the nation. We have a
22 variety of reasons why the challenge is as great as it is.
23 And over the years, we've had to adopt over 600
24 regulations to reduce emissions from a variety of sources.
25 We've worked closely with ARB to look for ways to reduce

1 emissions, and through those efforts have really done a
2 great job over the years actually in reducing emissions
3 significantly by over 80 percent to where now still, you
4 know, stationary sources make up 15 percent of our total
5 emissions and 85 percent of our total NOx emissions come
6 from mobile sources.

7 As we move forward with trying to address the
8 very difficult PM2.5 standards that were mentioned earlier
9 during the staff presentation, it's really important that
10 the district continue to leave no stone unturned, and
11 looking for technologically and economically feasible ways
12 of reducing emissions. And that was mentioned earlier
13 during the presentation. Those are measures that would
14 expedite attainment and protect public health.

15 But the fact of the matter is that the mobile
16 sources do make up the significant majority of the
17 remaining NOx emissions in the valley. That is a primary
18 precursor to PM2.5. And we really are at a critical
19 juncture in our journey towards meeting federal clean air
20 mandates with several PM2.5 ambient air quality standards
21 that we'd have to meet that do require some enormous
22 emissions reductions in order for us to demonstrate
23 attainment, and really the development and deployment of
24 Transformative measures in the coming years.

25 As Henry mentioned earlier, unfortunately with

1 PM2.5, and fortunately from a public health perspective,
2 but unfortunately with respect to developing our
3 attainment plans, we don't have a black box provision for
4 PM2.5. And as hard as we're going to work collectively to
5 avoid a black box in South Coast, when you're talking
6 about a 2019 and 2025 attainment time frame for PM2.5,
7 whether it's the '06 standard or the '012 standard, you
8 don't have that ability to develop attainment plans that
9 rely on these further yet-to-be-developed measures.

10 And so we do have to actually find a way of
11 quantifiably and enforceably put together a suite of
12 measures that bring about those necessary reductions.

13 We all agree that the ARB, South Coast, and San
14 Joaquin Valley that we do need to come up with a suite of
15 both regulatory and incentive-based measures to bring
16 about those reductions and are going to be essential
17 components of putting together our upcoming PM2.5 SIPs.

18 We appreciate staff's recognition in putting this
19 strategy together that we do need to achieve those
20 reductions. However, as you've heard in the prior
21 presentation, and as you've seen in the draft strategy,
22 right now it really is currently focused on bringing about
23 the necessary reductions by that 2023 and 2031 time frame
24 with the South Coast plan sort of ahead of our plan and
25 that schedule.

1 And so, you know, one of the biggest requests
2 that we have today as we move forward in working with your
3 staff in putting this together is that we explicitly
4 recognize the 2019 and 2025 attainment deadlines.

5 If I may just have a few more seconds here to
6 finish.

7 CHAIR NICHOLS:

8 MR. SHEIKH: As part of the process, we
9 appreciate the commitment that's been made to continue to
10 work with us on defining those dates and the required
11 reductions and how the strategy would bring about those
12 reductions. It's going to be absolutely essential.
13 There's no way that we see ourselves putting together a
14 federally approvable attainment plan or plans for those
15 standards without actually having, as with South Coast,
16 defined measures that show how we're going to bring about
17 that massive amount of reductions that we need by those
18 very, very quick time frames.

19 So I wanted to again just close by appreciating
20 and recognizing staff for their presentation today,
21 bringing this item to your Board, and also committing to
22 working with us on explicitly defining those PM2.5 needed
23 reductions, and working with us to identify those
24 potential measures. And we look forward to working with
25 staff as you move forward with that.

1 So thank you very much.

2 CHAIR NICHOLS: Thank you.

3 Mr. Altamura.

4 MR. ALTAMURA: Good Morning, Madam Chair and
5 members. My name is Ivan Altamura. I'm with Capital
6 Advocacy and I'm here today on behalf of Global
7 Automakers.

8 Global Automakers represents -- is an association
9 of automakers that represents 12 international automobile
10 manufacturers. These manufacturers represent 50 percent
11 of the overall sales of vehicles in California, as well as
12 79 percent of the overall green vehicle sales in the
13 State.

14 Global automakers members are invested in the
15 long-term goals of reducing greenhouse gas emissions,
16 increasing fuel efficiencies, and improving air quality.
17 We're developing innovative technologies to meet these
18 goals, and will continue to invest in those. These
19 efforts require significant resources on our manufacturers
20 parts, ongoing fleet changes, and time to implement these
21 changes.

22 We also know that the road to meeting the 2025
23 vehicle requirements is very challenging. The SIP
24 identifies measures to provide important air quality
25 improvements beyond 2025. This plan relies quite a bit on

1 further mobile resource improvements, and incorporates
2 efforts identified in the recent Mobile Source Strategy.
3 We recognize that mobile source reduction must be apart of
4 the solution, and our members are committed as always to
5 working collaboratively with the Board and ARB staff on
6 solutions that are good for everyone in California.

7 In that vein, Global Automakers would like to
8 raise the following two areas for the Board's
9 consideration:

10 First, the SIP Strategy and corresponding Mobile
11 Source Strategy are preliminarily looked -- are
12 preliminarily looked at a potential future -- futuristic
13 scenario. It reflects a modeling exercise base on the
14 State's long-term air quality and climate change goals.
15 At the same time, ARB's modeling is the foundational tool
16 that informs policy. But the model does not consider the
17 regulatory cost, technical feasibility, or most
18 importantly the impact on customers, and we believe that
19 these factors must be considered.

20 Global Automakers also believes there are likely
21 many possible mobile source reduction scenarios going
22 forward. Further analysis of the assumptions and the
23 scenarios will help the State create a more flexible and
24 cost effective approach to the SIP goals as well as the
25 GHG goals the State has.

1 We are committed to working with staff to make
2 sure that the modeling is accurate and reflects both the
3 goals of the State, as well as the best estimates of where
4 technological improvements can take us in the future.

5 And secondly, the Board should remain open to all
6 technology options and regulatory frameworks that meet the
7 State SIP. An example of this is the change to ARB's
8 previous modeling between 2009 and 2016. Seven years ago,
9 it appeared that the only solutions for 2020 -- excuse me,
10 2050 would include fuel cells and battery electric
11 vehicles.

12 More recently, ARB concluded that -- three more
13 sentences.

14 CHAIR NICHOLS: All right.

15 (Laughter.)

16 MR. ALTAMURA: May I finish?

17 CHAIR NICHOLS: Go ahead. Yeah, just finish up.

18 MR. ALTAMURA: More recently, ARB concluded that
19 all cleaner and more efficient technology options,
20 conventional plug-in hybrids, battery, and fuel cells will
21 likely play a role.

22 And recently, Global Automakers, and individual
23 member companies, have provided ARB with feedback on these
24 additional flexibilities that could be included, while
25 still achieving the State's goals.

1 And thus, we encourage the staff to consider and
2 evaluate additional sources. We think it's important to
3 offer strategies to solve the problems, and we think that
4 deciding too soon on one specific pathway, at the
5 exclusions of others, would lock the State into
6 potentially an unnecessarily expensive or less flexible
7 strategy.

8 And, we, at Global Automakers, look forward to
9 continuing to work with the agency on finding solutions.

10 Thank you.

11 MR. SHIMODA: Good morning. Chairman Nichols,
12 members of the Board I'm Chris Shimoda with the California
13 Trucking Association. And just wanted to comment today on
14 the proposed last mile delivery control measure.

15 So since the draft SIP was released, we've had a
16 series of very productive discussions with your staff, and
17 are supportive of the current direction that they're
18 taking to convene a work group with other key stakeholders
19 and to explore a broader set of potential implementation
20 tools.

21 And as stated in the staff presentation, our
22 impact members share an interest with the Board to advance
23 the commercialization of electric drive capable vehicles
24 in the last mile delivery space, and look forward to
25 working with ARB on this process.

1 So thank you.

2 CHAIR NICHOLS: Thank you.

3 MS. GOLDSMITH: Good morning, Chair Nichols and
4 members of the Board. My name is Hannah Goldsmith, and
5 I'm a project manager for the California Electric
6 Transportation Coalition. Our membership is comprised of
7 utilities, major automakers, manufacturers of medium- and
8 heavy-duty plug-in electric vehicles and others supportive
9 of transportation electrification.

10 Thank you for the opportunity to provide comments
11 on the 2016 State Strategy for the State Implementation
12 Plan. Thank you also to staff for their hard work on this
13 plan, and for engaging stakeholders like us throughout the
14 process.

15 CalETC submitted written comments on the Mobile
16 Source Strategy and the 26 State -- 2016 State Strategy.
17 And I will be brief. But overall, the broad -- we support
18 the broad suite of proposed measures intended to ensure
19 emission reductions.

20 We support the commitment to zero emission
21 technology everywhere feasible, and near zero emission
22 technologies powered by clean renewable fuels everywhere
23 else. We also encourage CARB staff and the Board to
24 ensure that the proposed measures, once adopted through
25 formal rule-makings, achieve the emissions benefits

1 contemplated in the Mobile Source Strategy and the 2016
2 State Strategy.

3 We know that fleet transformation through
4 measures like the Advanced Clean Transit rule and zero
5 emission last mile delivery may seem ambitious, but the
6 emission reductions from these sectors are both necessary
7 and achievable through cost-effective means.

8 In relation to costs, CalETC also supports
9 staff's recognition, and we very much also recognize, that
10 incentive funding is and will continue to be critical to
11 achieve further deployment and adoption of advanced clean
12 technologies.

13 As a final recommendation, we encourage staff to
14 include the role for utilities to help meet the emission
15 reduction goals in the strategy, especially within the SB
16 350 CPUC process.

17 Thank you.

18 CHAIR NICHOLS: Thank you.

19 MS. POWER: Good morning, Chair Nichols and Board
20 members. I'm Kristin Power with the Consumer Specialty
21 Products Association. CSPA represents the interests of
22 companies engaged in the manufacture, formulation,
23 distribution and sale of consumer products that help
24 household and institutional consumers create cleaner and
25 healthier environments.

1 Our industry has a long and cooperative history
2 of working with the Air Resources Board to improve air
3 quality. We have worked collaboratively on numerous
4 consumer product regulations over the years that have
5 reduced VOC emissions from regulated products by 50
6 percent. We are proud to have been able to contribute to
7 the profound improvements that ARB has achieved improving
8 air quality for all Californians.

9 Our concern with this State Strategy relates to
10 the consumer products program measure that would commit to
11 10 tons per day statewide and further VOC reductions at an
12 estimated cost of \$108 million. CSPA filed extensive
13 written comments in July urging that the tonnage
14 commitment be removed.

15 It is important to note that the legislative
16 authority to regulate consumer products has some unique
17 provisions. One of those provisions states that to
18 regulate consumer products, the State must have adequate
19 data to establish the regulations are necessary to attain
20 State and federal ambient air quality standards. We
21 believe that this must be done now in the development of
22 this SIP.

23 We have provided significant scientific data in
24 our written comments that the 10 tons are likely not at
25 all necessary for ozone attainment.

1 Last week, the South Coast Air Quality Management
2 District released the ozone attainment modeling and
3 alternatives analysis for their draft air quality
4 management plan. Our scientists reviewed those new
5 technical documents thoroughly and surprisingly found that
6 the list of measures used to demonstrate ozone attainment
7 do not appear to include any with reductions in consumer
8 products. They also found that no modeling was done to
9 determine whether or not the consumer products reduction
10 was necessary for attainment.

11 CSPA is following up with AQMD scientists seeking
12 additional clarification on the modeling and the draft
13 AQMP. Please understand that we are only seeking to have
14 the reduction goal removed. We are not asking that the
15 consumer products program measure be removed from the SIP.
16 We recognize the need to continue our cooperative efforts
17 with ARB, and look forward to working to set additional
18 flexibility and sustained innovation through alternative
19 control measures.

20 CSPA believes that this can be achieved through
21 enhancement to various provision of existing regulation.
22 CSPA looks forward to continuing this cooperative work
23 with ARB, recognizing that further reductions in consumer
24 product VOCs will be extremely difficult and costly.
25 Thank you for the opportunity to present.

1 CHAIR NICHOLS: Thanks.

2 OEHHA ASSISTANT DEPUTY DIRECTOR MARTY:

3

4 MR. MARTINEZ: Good morning, Chair Nichols and
5 members of the Board. My name is Adrian Martinez and I'm
6 here on behalf of Earthjustice.

7 At the outset, I do a lot of work in the South
8 Coast Air Basin As you know, it has some of the worst
9 pollution problems in the nation. This plan is very
10 important. Initially, I just want to -- we've heard that
11 one of the hearings on the State strategy or approval of
12 the South Coast SIP will actually happen in the South
13 Coast Air Basin. We appreciate that. There's a lot of
14 growing concern about very high level of ozone violation
15 days. And I think people really want to participate,
16 present to this Board, and talk about that plan in a
17 public way.

18 On that point, there's been some push-back from
19 the oversight of this body on the South Coast plan. We
20 think it's important, particularly in places like the NOx
21 reclaim program, which many of our groups think is a
22 broken system that the oil industry others have used to
23 prevent installing life-saving pollution controls.

24 One of the issues that's been discussed
25 extensively are incentives. And I just want to clarify

1 our points. We provided a letter from 8 groups that was
2 submitted this week, and it was handed out to the Board
3 members. We're concerned about an overreliance on
4 incentives in this plan. And when we look at the
5 incentives, we look at what are the emission reductions
6 that are needed going forward.

7 The vast majority of those -- of the new
8 programs, new measures -- new reductions are from
9 incentives. And we're not critiquing that to diminish the
10 work that's happened on Prop 1B implementation, the
11 Volkswagen settlement, those types of programs. Those are
12 important efforts that have been undertaken.

13 But what's being proposed here is such a dramatic
14 increase in the amount of incentives that we don't
15 understand how it's going to be implemented, how it would
16 actually succeed. Just today, the LA Times is reporting
17 on a proposal for a \$30 or \$50 vehicle license fee
18 increase in the -- for South Coast Air Basin.

19 We don't understand how that's even first
20 politically feasible. But even if you could get the
21 money, how would you implement such a massive increase in
22 giving out, or free vehicles or replacing vehicles. These
23 types of programs need to be based in reality.

24 In our letter, we also identify several
25 regulations that we are very happy. The concepts are

1 being put in. We've asked for some of them to be
2 strengthened. I have colleagues here today who will
3 probably address some of those items in more detail. I
4 want to go over one set of new regulations we're
5 proposing, and that's related to port equipment.

6 I spent quite a bit of time studying the docket
7 for recent particulate matter approval that EPA did around
8 the South Coast plan. The port submitted a lot of
9 letters, and we're suggesting doing regulations on cargo
10 handling equipment and port drayage trucks. We think the
11 concepts could be -- vary in design, but we think it's
12 very important to start that discussion now about how do
13 we increase zero emission vehicles in those sectors in a
14 regulatory manner.

15 Thank you.

16 CHAIR NICHOLS: Thank you.

17 My understanding is that we would hold the final
18 hearing on the SIP in the South Coast basin, isn't that
19 correct?

20 I'm seeing nodding.

21 EXECUTIVE OFFICER COREY: That's correct.

22 CHAIR NICHOLS: Yes, we definitely will. Okay.

23 MR. LAWSON: Hi. Good morning, Chair, Vice
24 Chair, and the Board. My name is Thomas Lawson. I'm the
25 president of the California Natural Gas Vehicle Coalition.

1 And we submitted written comments on the Mobile
2 Source Strategy as well as State Sip Strategy. And I
3 wanted to just focus on a few items. One, I think we are
4 very supportive of the adoption of a California, as well
5 as a federal, low-NOx standard. And we think that we
6 are -- we want to be able to offer our assistance in
7 making that happen.

8 As you know, there was -- which was already
9 mentioned, there was a engine that was already -- a
10 low-NOx engine that is already certified. We think that
11 that's going to be key. And the Air Resources Board, as
12 well as the CEC, has put in a lot of resources as we get
13 to the next phase of a larger engine that's going to be
14 coming to market pretty soon.

15 One of the things that I also wanted to talk
16 about was we support the projection of almost 900,000
17 Class 2B and last mile delivery trucks, specifically
18 425,000 in the Class 7 and 8. But one of the things that
19 we're concerned about is that the plan does not
20 necessarily layout how we get there. You know, obviously,
21 there's a huge focus on incentives, but we also know that
22 there's a huge focus on zero emission in that particular
23 sector.

24 And one of the concerns that we have is we
25 believe that the low-NOx engine, and using natural gas or

1 renewable natural gas as a cleaner fuel is ready right
2 now. And the question is what happens if the technology
3 in the zero emission space doesn't arrive in time, and how
4 do we switch and pivot? So we believe that there has to
5 be some equity in how that is done.

6 The other thing when you talk about fuels is, you
7 know, with the passage and signage of SB 1383, there was a
8 provision in there, a section in there, that deals with
9 renewable natural gas, and having a -- the State
10 regulatory agencies focus on how to incorporate the use of
11 renewable natural gas in its plans. And so I know that
12 that was -- the bill obviously passed and signed after
13 this plan was written, but we do want to -- we would like
14 to see some of -- some more inclusion of that in the next
15 draft that comes forward.

16 I know that our industry is going to provide some
17 additional comments, so I will end there and I appreciate
18 the time.

19 Thank you.

20 CHAIR NICHOLS: Thank you.

21 MR. PIMENTEL: Madam Chair and Board Members,
22 Michael Pimentel for the California Transit Association.

23 I want to thank you for the opportunity to
24 address you again to discuss the advanced clean transit
25 regulation. I'll admit, it's a fairly small component of

1 the State Implementation Plan before you today. The
2 Association, as you know, represents more than 80 transit
3 agencies across the State. Collectively, our members
4 provide the vast majority of the 1.4 billion unlinked
5 transit trips taken annually in the State. And they do so
6 with ever cleaner fuels and vehicle technologies and to
7 the great benefits of the communities that they serve.

8 We're here today because the ultimate structure
9 of the ACT regulation, its cost and feasibility remain key
10 concerns for our members. While your staff has just
11 published their initial cost figures, a draft to which we
12 have not yet responded formally, we see some real
13 concerns, and we suspect that some elements may be in
14 direct conflict with what we've seen on the ground.

15 I want to emphasize for the Board that the
16 conversation surrounding the cost of the ACT regulation is
17 ongoing. Your staff has provided additional opportunities
18 to engage in the evaluation of the cost figures we've seen
19 so far. And the Association is committed to making sure
20 that you have the most accurate cost information available
21 to inform your decision-making process.

22 The concerns we've discussed with your staff
23 throughout the process also underscore why we look forward
24 to the opportunity to continue to work with ARB staff on
25 the development of alternatives to the ACT purchase

1 mandate. And we appreciate the personal commitment made
2 to us by Mr. Corey and Mr. Kitowski to engage in those
3 discussions and future discussions of costs.

4 I will now turn to Paul Jablonski, CEO of San
5 Diego Metropolitan Transit System who will go into some
6 greater detail about some of the issues our members have
7 faced in the regulatory process to date, and what we'd
8 like to see moving forward.

9 So thank you.

10 MR. JABLONSKI: Thank you, Michael.

11 Madam Chair and members of the Board, besides
12 running the transit system in San Diego, I'm also the
13 Chair of the CARB initiated Transit Advisory Group to
14 interact with staff on this particular issue. And as
15 Michael said, we're here to talk about one specific part
16 of the implementation plan, and that is the Advanced Clean
17 Transit regulation.

18 You may recall that, and I've spoken before you
19 before, in sharing the concerns of my colleagues with the
20 purchase mandate of the ACT. And when we were last here
21 and spoke before this Board in February, I thought there
22 was some very specific direction to staff regarding the
23 ACT and looking more towards performance-based technology
24 neutral alternatives, as well as an implementation plan
25 that would not create substantial financial burdens for

1 transit systems and curtail their primary function is to
2 carry people.

3 I have to admit over the last few days we've had
4 discussions with senior staff of CARB, and I think they
5 have encouraged us to continue to work with them. And
6 they've pledged greater cooperation in coming to some
7 resolution on this. One of the specific things that I
8 wanted to talk about is the estimate for the
9 implementation of the ACT. And I believe the State
10 Implementation Plan says that it's about \$95 million.

11 I can tell you that independent studies in L.A.
12 alone suggest that it's more toward a billion just in
13 L.A., and I know it's several hundred million in San
14 Diego. And so those numbers certainly need to be refined.

15 There's also kind of a general premise out there
16 of acceptance that the price of zero emission buses is
17 going to come down. Yet, when we look practically at a
18 place like Long Beach, California, who just issued a
19 contract for electric buses for a five-year multi-bus
20 purchase contract, the price of the bus is going up every
21 year by the Producer's Price Index, so it's not coming
22 down. So rather than projections, we need to look at real
23 life.

24 I think it's hard to justify a purchase mandate
25 in going to electricity especially, as the report

1 indicates, the impact is less than one-tenth of 1 percent
2 on greenhouse gases. But it's almost impossible to
3 justify when you look at alternatives like we are running
4 in San Diego, like L.A., like Sacramento, where we're 100
5 percent biogas, and now switching to the Cummins new ultra
6 low-NOx engine. And we've been testing that engine for
7 Cummins for the last two years, and it will be
8 commercially available within just a few months.

9 I think the pilots that are out there now are
10 good, but they have shown that the -- I'll be -- they have
11 shown that -- we're not commercially ready with this
12 technology at this particular time.

13 What we're advocating for is an incentive-based
14 voluntary program to get electric buses out there.

15 CHAIR NICHOLS: Right. We have heard you and
16 we've also gotten your testimony. So thank you again for
17 participating and continuing to participate.

18 Ms. Heffling.

19 MS. HEFFLING: Good morning, Chair Nichols and
20 Board members. My name is Emily Heffling and I'm an
21 outreach coordinator with the Union of Concerned
22 Scientists. And on behalf of our 78,000 supporters and
23 nearly 3,000 scientific experts in California, I thank you
24 for working to meet the federal air quality standards
25 needed for safer and healthier communities with the

1 proposed SIP.

2 As our outreach specialist, I get to know first
3 hand what our supporters care the most about. And in
4 California, they care a lot about clean air. That's
5 evident by or exceptionally high engagement and our clean
6 freight and clean bus related actions that we have with
7 them.

8 Our supporters want to see real change as soon as
9 possible. Fortunately, as all of you know, we do have the
10 technology to get there. And several of those
11 technologies are outlined in the draft SIP. However, the
12 draft does not clearly illustrate how the State will
13 attain these clean air standards.

14 In particular, at UCS we're most concerned about
15 relying on the strategy identified as further deployment
16 of clean technologies, which lacks the specific details,
17 but represents some of the largest emissions. In
18 addition, to further specifying how reductions in this
19 strategy will be achieved, we encourage ARB to prioritize
20 bolstering the following 3 measures:

21 First, adjustments to the ZEV Program, which I
22 think you know, are stated already. They're needed to
23 achieve at least 15 percent sales by 2025, in addition to
24 implementing standards in 2026 and beyond.

25 Second, the Board must adopt a stronger

1 commitment to the ACT. Like the presentation prior to me,
2 I do think we have to look at reality. And as illustrated
3 by Proterra's recent announcement of their 350-mile range
4 bus, in addition to BYD's new expansion of their
5 manufacturing site in Lancaster, the obstacles of range
6 and cost that were once debated for battery electric buses
7 are quickly being addressed.

8 So we suggest the purchase requirement increase
9 from 20 percent to 100 percent. Notably, there are also
10 transit agencies in the State already committing to 100
11 percent by 2030.

12 Third, last mile delivery trucks are also ready
13 for electrification as ARB has already identified. The
14 proposed requirement of 2.5 sales starting in 2020 is a
15 good start, but leveling off at just 10 percent is simply
16 not enough. And given the critical need to identify
17 greater emission reductions, a higher level of deployment
18 should be targeted for 2030.

19 Further, the technology for zero emission drayage
20 trucks also advancing rapidly. And the plan does not
21 include regulations for these vehicles, which emit NOx and
22 other pollutants in port communities. So we suggest these
23 trucks also be included for regulatory action in the final
24 SIP.

25 Regulation and market signals are needed for the

1 State to make use of the significant investments that
2 we've already made in recent demonstrations of zero
3 emission drayage trucks.

4 In conclusion -- so in conclusion, thank you, and
5 we hope the plan reflects the urgency that we see on the
6 ground in California.

7 CHAIR NICHOLS: Thank you.

8 MR. MAGAVERN: Good morning, Madam Chair and
9 members. I'm Bill Magavern with the Coalition for Clean
10 Air. And, of course, we care a lot about this plan
11 because it's about how we get to clean air. And we've
12 just ended a summer which had many smoggy days in much of
13 the State. So we're reminded of the persistence of our
14 State's air pollution problem.

15 Reading the plan, we see that we have many
16 successful programs that have worked and are continuing to
17 work to reduce air pollution. There are also proposals
18 for a number of promising new measures like the low
19 emission diesel requirement, which will continue our
20 progress in cleaning up our transportation system.

21 We agree that it's appropriate to have a mix of
22 regulatory and incentive measures. And indeed, we support
23 the incentive programs and work frequently with your staff
24 on those.

25 So we absolutely like the idea of turning over

1 the fleets more rapidly to get the cleaner vehicles out on
2 the road, but we do not think that it's appropriate to
3 count on funds that do not exist. And we know about the
4 challenges that many of our incentive programs face, for
5 example, the uncertainty with the Greenhouse Gas Reduction
6 Fund. It's not acceptable to gamble the health of our
7 children on the hope that these dollars will be available,
8 and we don't think that it complies with the Clean Air
9 Act.

10 For example, the plan projects a scrap and
11 replacement program for light-duty vehicles that would be
12 many, many orders of magnitude higher than anything that's
13 ever been achieved. So much as we like that program and
14 have seen successful pilots, the feasibility of scaling up
15 that rapidly is very doubtful.

16 Therefore, some of the plans regulatory measures
17 we think should be made more aggressive and some
18 additional measures should be added. For example, in the
19 area of Advanced Clean Cars, we very much agree that the
20 program needs to ramp up in the 2026 and later period. We
21 also think it needs some adjustments through 2025. And
22 this is something you talked about at your last hearing in
23 July.

24 You know that because of the improved battery
25 technology, there's now a surplus of credits. And we're

1 on a pace to fall short of the requirements of a million
2 electric vehicles on the road by 2023, and the Governor's
3 goal of a million and a half by 2025.

4 So the ZEV Program needs a tune-up. We recommend
5 adjusting the credit values for future sales, so that we
6 are not as generous with the credits per vehicle, and also
7 think that you should ensure that manufacturers cannot
8 rely solely on credits to comply, because the goal of the
9 program is to get those zero emission vehicles on the road
10 not just to get credits out there. So my colleague
11 Shrayas will address some of our further recommendations.

12 MR. JATKAR: Good morning, Madam Chair and
13 members of the Board. Shrayas Jatkar with Coalition for
14 Clean Air. As others have noted, we support the State
15 strategy for requiring zero emission technologies
16 everywhere feasible, and near zero emission with low
17 carbon fuels everywhere else, in order to actually reduce
18 emissions and deal with the health damaging and climate
19 disrupting effects from the mobile source sector.

20 We're pleased to see zero emission requirements
21 in a number of sectors and vocations, where the technology
22 is feasible, and that includes on-road and off-road. And
23 those have been mentioned in the staff presentation. And
24 off-road, you saw that in forklifts, for instance, and
25 on-road in clean transit, last mile delivery.

1 And there at least 2 places where we see that the
2 proposed measures need to be strengthened in this area,
3 and that is in the clean transit and last mile delivery
4 sectors, which Emily from Union of Concerned Scientists
5 addressed earlier.

6 And I wanted to say a few other points about this
7 that have not been mentioned so far. So, you know,
8 thankfully we have Greenhouse Gas Reduction Fund money
9 that has been appropriated by the legislature. Next month
10 you'll be asked to consider the final funding plan, which
11 includes \$60 million for shovel-ready projects that would
12 actually be for zero emission trucks and buses.

13 And so to complement that incentive money, we
14 think that the regulations on those sectors should be
15 strengthened. As noted earlier, the purchase requirements
16 should be increased to get greater deployment of those
17 vehicles on the road. And, of course, we already see a
18 number of zero emission buses in California. And in the
19 last mile delivery sector, we see those on our streets
20 here in Sacramento every day.

21 And so we know the technology is available. It's
22 commercially available as well. And to the point around
23 emissions, while these are, you know, small sectors within
24 an overall State strategy, this is an important part of
25 the puzzle we think that requiring greater deployment of

1 these zero emission technologies is really important for
2 the heavy-duty sector overall.

3 With clean transit, we, of course, have a
4 workgroup already underway, and just want to commend staff
5 for the work to address the cost issues, and also to start
6 collecting data about the transit fleets, so that we know
7 the differences in transit fleets. And from the data
8 we've seen so far, about two-thirds of the routes, at
9 least of the folks who responded to the survey, you know,
10 a significant share can meet their routes with the zero
11 emission technologies currently available. And so we --
12 again, we do see this as a feasible strategy to accelerate
13 the phase-in schedule for zero emission buses.

14 And then lastly, I would just like to say on the
15 indirect source rule, we would encourage a rule-making
16 process to commence for that. You know, we know staff is
17 starting to collect data about freight hubs, which
18 includes rail yards, maintenance facilities, but we do
19 think that a regulation is also -- should be started for
20 that.

21 We are encouraged by the letters to U.S. EPA, and
22 to a International Maritime Organization for ships and
23 locomotives, but we can't wait for those.

24 CHAIR NICHOLS: Thank you.

25 MR. TUNNELL: Good morning, Chair Nichols and

1 members of the Board. My name is Mike Tunnell, and I'm
2 with the American Trucking Association.

3 Ten years ago today, this did not exist.

4 (Points to Smartphone.)

5 MR. TUNNELL: So I just point that out to the
6 difficulty in predicting technology as we move forward,
7 and probably the difficulty of your job just to develop
8 this plan that is predicated on the future development of
9 technology.

10 So I think it's wise that there is some
11 maintaining a nimble plan that has flexibility in it, as
12 we just don't know how technology will advance.
13 Autonomous cars and trucks, we're hearing a lot about how
14 that plays into all this, and what are the impacts on this
15 plan. We don't know.

16 So, you know, just pointing that out, trucking
17 relies on industry suppliers and infrastructure providers
18 to develop the technologies and the infrastructure. We're
19 a consumer of those products. We purchase trucks. We
20 purchase fuel. And so we're relying heavily on the
21 industry suppliers to develop these advancements as we go
22 forward.

23 So it's going to take a significant investment on
24 both -- from both the private sector and the public sector
25 going forward in low emission technologies, and

1 infrastructure in matching these two together or not,
2 depending on which technology you go for.

3 So, you know, I think the plan tries to lay that
4 out going forward. I think the role of public money in
5 this, as the next speaker can probably attest to, has
6 played an important role in bringing a lot of this
7 technology forward.

8 So the industry has had a lot of experience in
9 developing lower emission technologies and purchasing it
10 in the last several years. We've dealt with a lot of
11 unintended consequences that we will continue to point out
12 to you as we go forward in developing this. But I would
13 just say that we'll appreciate all staff's efforts in
14 reaching out to us, and I'm only a phone call away.

15 Thank you.

16 (Laughter.)

17 CHAIR NICHOLS: Thank you.

18 MR. CARMICHAEL: Good morning, Chair Nichols,
19 members of the Board. Tim Carmichael with Southern
20 California Gas Company. In short, I'm here to express
21 excitement, concern, and frustration.

22 I'm going to start with excitement, because I
23 haven't heard enough about the fact that for the first
24 time in my life working on these issues, I can honestly
25 say we know how to get to where we want to get to. Not

1 suggesting it's going to be easy, not suggesting that all
2 the details have been worked out. But we actually can say
3 we know how we're going to get there. And for the last 20
4 years or longer, maybe 40 years, we haven't really
5 honestly been able to say that, and so I'm excited about
6 that.

7 I'm excited about the technologies that are being
8 developed, not only in the natural gas world, but across
9 the spectrum. I'm excited about the fuel work that we're
10 all doing collectively to develop the next generation of
11 fuels, primarily the renewable fuels, and California is
12 going to be leading the world on that.

13 So there are concerns though. And I think Bill
14 Magavern did a very good job of covering the concern about
15 the overreliance on incentives. That, I see, as the
16 greatest challenge in this plan, and what are we going to
17 do collectively to ensure that we raise the money that we
18 all know is necessary to realize what we're trying to
19 realize over the next 15 years.

20 And, you know, back to Mary's point about, you
21 know, the collaboration between agencies and other
22 stakeholders. We've done that in the past and it's been
23 effective. I encourage us all to try and do something
24 similar, because nobody has the pot of money to tap right
25 now that's going to address all these issues.

1 The other concern is as excited as we are about
2 the transition away from diesel to alternative fuels,
3 lately we've been feeling like the staff has been focusing
4 exclusively on renewable diesel, at least public comments.
5 And we just want to remind everyone that we believe, at
6 least in the heavy-duty sector renewable natural gas is
7 going to play -- is today and is going to continue to play
8 an incredibly important role in trucking and heavy-duty
9 equipment going forward.

10 Finally, to frustration. I just have one
11 frustration, which I'm sure you'll be happy to hear.

12 (Laughter.)

13 MR. CARMICHAEL: And it relates to our lack of
14 progress on the Advanced Clean Transit program over the
15 last year. I commend Michael Pimentel and Paul from the
16 California Transit Agency for being so diplomatic and
17 composed. But it has been incredibly frustrating to
18 participate in the working group meeting on this issue
19 over the last year.

20 Yes, progress has been made on cost analysis and
21 costs estimates, but we have literally had no serious
22 discussion about an alternative approach to a ZEV mandate,
23 or ZEV requirement, regulation, which I, and many others,
24 heard this Board suggest we needed to talk about, that as
25 much passion as there is about ZEV technologies for buses,

1 that forcing that technology could actually cause harm in
2 service for the transit agencies.

3 So my specific request there is to -- the staff
4 and to the Board please give direction that we need to
5 have a serious conversation about what the program is
6 going to look like. And the California Transit
7 Association has a proposal -- a draft proposal. I'm not
8 saying that's the end-game. I'm not saying it's the only
9 way to go, but we haven't had a serious conversation about
10 alternatives, and we need to.

11 Thank you very much.

12 CHAIR NICHOLS: Okay. I hope your frustration is
13 a little bit cured by being given extra time. You know,
14 we really do --

15 (Laughter.)

16 CHAIR NICHOLS: -- we do try.

17 MR. CARMICHAEL: I appreciate that. Thank you.

18 CHAIR NICHOLS: Thank you.

19 MS. HASSON: Hello, Chairman Nichols and members
20 of the Board. Thank you for the opportunity to speak. My
21 name is Michele Hasson. I represent the Center for
22 Community Action and Environmental Justice. We are an
23 environmental justice organization based in the heart of
24 the Inland Empire.

25 I would like to echo the comments so eloquently

1 laid out by my colleagues of the Coalition for Clean Air,
2 Earthjustice, the Union For Concerned Scientists. But one
3 thing I haven't heard in these deliberations is people. I
4 come here with the blessing of many impacted residents,
5 those that suffer from low -- slow lung development as
6 children, cancer, a myriad of public health opportunities
7 that don't allow them to participate in California's
8 dream.

9 And this plan is about clean air. In our
10 communities, specifically those in San Bernardino, which
11 according to very recent public health data from New York
12 University, we have one 1,600 approximately avoidable
13 deaths a year that are related to poor air quality.

14 This isn't just something arbitrary. This is
15 people's lives. People are dying because of our air
16 quality, and we really need to do something more.

17 And when we look at our communities that are so
18 impacted in these freight hubs, we ask what can we do?
19 And we presented some solutions, but we're also asking for
20 more collaboration with not only stakeholders, such as
21 you've done an excellent job through the EJAC scoping
22 process. And I would like to really honor and thank the
23 Board members who represent EJ communities, because it has
24 been a difference.

25 And right now, what we're seeing is that we need

1 to step up electrification of freight. We need indirect
2 mobile sources rules. We cannot just allow the logistics
3 industry to continue to sprawl and continue to pollute our
4 communities, because people are dying. This isn't just a
5 regulation. It's somebody's life.

6 We also really need transit agencies to stop
7 putting natural gas in our communities. The majority of
8 CNG fueling stations for transit agencies in the Inland
9 Empire are in disadvantaged communities. Right there --
10 and those people don't even have access to transit. So we
11 ask, please, increase and, please, improve regulations,
12 and don't rely so much on incentives. Incentives are a
13 great partner in getting to clean air, but we really need
14 to take a step up and do something a little bit more
15 daring, that doesn't rely on a green box, because we've
16 gone from the black box of technology, and now we know it
17 exists to a green box of money that we don't even know
18 where we're going to get it from.

19 So I implore you, please, for the communities
20 that are on the front lines and who are suffering the
21 burdens of our air pollution, take a harder stance,
22 because it's what we need.

23 Thank you.

24 MR. WIRAATMADJA: Good morning, Madam Chair and
25 Board members. My name is Vincent Wiraatmadja. I'm here

1 on behalf of BYD Motors, which is a California-based
2 manufacturer of heavy-duty electric trucks and buses.
3 We'd like to express our strong support for many of the
4 actions outlined in the SIP, and thank the staff for all
5 their hard work in putting this together.

6 These measures we feel are critical to ensuring
7 that California will meet its greenhouse gas reduction
8 goals. And we'd like to encourage the Board to be even
9 more aggressive in its pursuit of these goals.

10 As a California-based manufacturer, we will do
11 our part to make sure that the State is able to implement
12 these procedures -- these measures.

13 As part of that, BYD would like to highlight four
14 elements that we think will be critical to the success of
15 the SIP. The first one, of course, being the Advanced
16 Clean Transit rule. The strong -- a strong ACT is going
17 to be needed in order to hit the 2030 goals. Indeed, the
18 2030 scoping plan in each of its 4 different scenarios has
19 a strong ACT as part of the pathway to actually making the
20 2030 goals.

21 And while this rule has been in development on
22 and off for years, the momentum is there now, and the
23 Board should take advantage of this strong showing of
24 support and move forward to implement it quickly.

25 We have multiple manufacturers in the space -- in

1 the transit space, and near advance -- near constant
2 advances in battery electric technology. It will mean
3 that the buses are commercially available, and are able to
4 meet the needs of transit agencies, while also providing
5 clean air and comfortable rides to its passengers.

6 The Board should embrace a strong ACT as a way of
7 meeting its long-term goals. And it should also be noted
8 that there's significant overlap between the zero emission
9 airport bus rule and the ACT. So the two rules should
10 probably be aligned and implemented quickly.

11 The next thing that we would like to address is
12 the last mile delivery. We know that this is an important
13 aspect of our new found addiction to Amazon Prime and
14 other forms of Internet eCommerce. These box trucks mull
15 about our communities and emit large amounts of emissions.

16 But the technology is there to electrify them,
17 and it is the logical next step in the transportation
18 electrification process in the heavy-duty sector. That
19 technology is there as direct result of technology
20 transfers from advances made in the transit sector.

21 And so we just want to reiterate that BYD is
22 manufacturing a large variety of Class 3 through 7
23 heavy-duty trucks, and will be able to help the goods
24 movement sector transition over into zero emission.

25 Similarly, there are many battery electric

1 fork-lifts available on the market, and so we'd also like
2 to see those transition quickly. And as a final note, as
3 many people have alluded to, there is a limited amount of
4 incentives. Where commercially feasible and available,
5 priority should be given to zero emission technologies
6 over any near zero options when it comes to incentive
7 funding.

8 Thank you.

9 CHAIR NICHOLS: Thank you.

10 MR. ANTWIH: Good morning, Madam Chair and
11 members of the Board. My name is Andrew Antwih with Shaw,
12 Yoder, Antwih.

13 I'm here today on behalf of the Los Angeles
14 County Metropolitan Transportation Authority. That public
15 agency has asked me to come and address the Board today
16 regarding the Advanced Clean Transit rule that's a
17 component of the SIP.

18 I'd like to start off on behalf of L.A. Metro by
19 thanking the Board for working with L.A. Metro and other
20 transit agencies during the conversations regarding the
21 ACT regulation. And I want to point out that in L.A.
22 County we're in the midst of a rail revolution. There's
23 heavy investment in public transportation. We're
24 expanding our rail network in ways that are not matched by
25 other agencies around the State. And frankly, we'd argue

1 that the expansion and the rate of expansion probably
2 matches or exceeds expansion of rail around the country.

3 In fact, we point to the Exposition Light Rail
4 line, which coincides with the return of the NFL to Los
5 Angeles.

6 (Laughter.)

7 MR. ANTWIH: Many of the fans who wanted to show
8 up for that first game took the Exposition Light Rail, and
9 they'll continue to take it, we expect. Ridership has
10 already exceeded our original projections, and so we note
11 that as a success. This success comes with investment.
12 The voters in Los Angeles have approved measures that
13 provide a source of revenue so that L.A. Metro is
14 investing in public transportation in a massive way. It
15 really is transforming the footprint. Car-based L.A.
16 doesn't look the same anymore for those of you that look
17 for options to get around town.

18 And so we want to encourage the Air Board to kind
19 of look at that, but also partner with us. We have been
20 engaged in the conversations about the ACT. We do have
21 some concerns. Some of the concerns have been noted
22 earlier about whether or not the estimates on exactly what
23 the costs will be for transit agencies statewide to comply
24 and purchase zero emission vehicles are realistic. We
25 think 95 million is far short of the number.

1 We also note that through the Transit
2 Association, we've been informed that Air Board staff have
3 acknowledged that more work needs to be done. But we
4 think the number is off by 100-fold just for our agency
5 alone. So we do want to work with staff going forward to
6 make sure we fine-tune that.

7 I do want to also just mention that the Board of
8 Directors for the L.A. Metro Agency have adopted their own
9 target towards purchasing zero emission buses. We also do
10 have the largest natural gas fleet in the State. We are
11 working aggressively to incorporate renewable natural gas,
12 and we're also bringing on-line low-NOx engines as well.

13 And so if we get the commitment to continue to
14 work to fine-tune the ACT regulation to really factor in
15 the cost, we think the partnership that we've enjoyed with
16 the Air Board will continue. Frankly, transit agencies
17 end up being the test lab for these engine technologies,
18 before they get deployed in other markets. We want to
19 continue to do that, but it has to be based on realistic
20 estimates and performance characteristics that meet the
21 distance and the performance ratings that we need to make
22 sure that people actually ride transit and they get out of
23 their vehicles.

24 Thank you.

25 CHAIR NICHOLS: Did you have a comment or a

1 question?

2 VICE CHAIR BERG: Just quickly. If you keep up
3 that \$200 parking for those Rams Games, I think it will
4 increase that ridership as well.

5 (Laughter.)

6 VICE CHAIR BERG: So good job on that.

7 MR. ANTWIH: Thank you, Vice Chair. I'll pass
8 that along.

9 (Laughter.)

10 CHAIR NICHOLS: It does.

11 MS. VAZQUEZ: Good evening -- morning, sorry.
12 It's been a long day. It's just the morning too.

13 (Laughter.)

14 MS. VAZQUEZ: Chair and Board members, my name is
15 Diana Vazquez. I'm here on behalf of Sierra Club
16 California, but -- and I want to reiterate some comments
17 that were made by our colleagues from Earthjustice,
18 Coalition for Clean Air, Union of Concerned Scientists.
19 Specifically on the SIP, we think the staff are really
20 being open to us and accepting our comments and our
21 suggestions as this has been developed.

22 But specifically I'm here to talk about one rule
23 that has been already mentioned, ACT, Advanced Clean
24 Transit. We've been working on this rule with -- along
25 with a lot of coalition partners throughout this year and

1 trying to really see that we know there's obstacles, and
2 we know that there's going to be challenges in
3 implementing this rule, but we understand that this rule
4 is needed. And it's because this rule is one of the rules
5 that's highlighted within the SIP. We understand that
6 this rule has to be actually implemented in districts that
7 are impacted, specifically in South Coast in San Joaquin
8 Valley.

9 So we think that we understand that there's
10 different challenges. And one of the challenges is
11 ridership. We, as a club, do not want to impact
12 ridership, because a lot of these buses are being used by
13 our own members. But within that said, the working group
14 has really been a good space where we can actually discuss
15 how we actually impact ridership and increase it, not
16 decrease it, but also how do we develop off-ramps.

17 And that's one of the things that we're going to
18 be actually having the discussion on October 4th and
19 really looking at the off-ramps. What do we need to
20 really start penetrating this technology in the sector,
21 given that we understand the technology is here, and is
22 ready to be used?

23 And we've seen other transit agencies actually
24 using and welcoming this technology where they're actually
25 committing 100 percent zero emission buses by 2030. And

1 we're not seeing turnover of fleet in 10 years or in 5
2 years, we're seeing do it where you can actually do it in
3 a smooth transition, and how do we actually get there?

4 And also incentives have been discussed. We
5 understand money is required. And this is something that
6 if we know how much money we need, and realistically need
7 based on the technology and the cost of this technology,
8 then we can actually have a plan.

9 And within that, I think moving forward, we
10 really look forward to working with your staff, but also
11 with the local air districts to really see how do we
12 actually include this technology within those districts,
13 and actually make it work for everybody effectively and
14 efficiently.

15 And like I said, I think we're going to be seeing
16 each other more often than anything, given that we need to
17 actually start really thinking about rule-making -- about
18 this rule-making now versus 2, 3 years from now. Because
19 if we want this technology to actually be effective, we
20 have to actually do it now versus waiting 10 years from
21 now.

22 But thank you and thank you for the staff. And
23 also, we had some discussions with some of the Board
24 members throughout the month, and we presented our
25 concerns in a letter, and hopefully you guys can go ahead

1 and reflect on the letter, and see if we can actually be
2 of any help.

3 Thank you.

4 CHAIR NICHOLS: Thank you.

5 MS. HOLMES-GEN: Chairman Nichols and Board
6 members, Bonnie Holmes-Gen with the American Lung
7 Association in California. And I wanted to first thank
8 you for your leadership and clean air regulation
9 innovation. Across the years, we have come a long way and
10 we always want to recognize the progress. But as you
11 know, air pollution continues to pose a public health
12 crisis, and we have millions that are living in areas
13 unaffected -- that are affected by unhealthy air.

14 And we know that children, seniors, low-income
15 communities, those with existing lung and heart diseases
16 are most affected, and that children are experiencing
17 slowed lung development that affects them for life. So we
18 need to work hard to address this crisis.

19 And this State Implementation Plan is a
20 critically important roadmap to address this crisis and to
21 meet our federal health protective air quality standards.
22 And we are looking forward to engaging -- we are engaging
23 in this process at the State level, at the local level,
24 with our local advocates.

25 We think it's incredibly important to have strong

1 local plans and strong regulations to meet our EPA
2 health-based standards. And we are looking toward your
3 board to exercise your oversight role and to make sure
4 there are strong tangible commitments in the local plans,
5 and a solid focus on regulations. I know you've heard a
6 lot of discussion about that.

7 Incentives are obvious -- always an important
8 strategy to get these early reductions, but we're really
9 focusing on these tangible commitments. We believe that
10 the draft today is a very good start, and we join the
11 letter with our colleagues, urging some additional
12 strengthening, because we think there is more that can be
13 done.

14 Pushing for the EPA strengthening of heavy-duty
15 NOx, that's very important. But we also need to
16 strengthen existing regulations here, the Zero Emission
17 Vehicle Program, to make sure we hit our 2025 goals and
18 ramp up afterwards.

19 We want to see an increased focus on zero
20 emission and heavy-duty, and we think this -- that the
21 development of the Advanced Clean Transit, zero emission
22 vehicle drayage trucks. I mean, all of these are so
23 important to advance technology across all sectors.

24 We are -- we think it's extremely important to
25 get these early reductions from zero emission technology

1 to benefit communities living near sources of diesel
2 pollution and to protect the millions of Californians that
3 are burdened by air pollution.

4 In fact, the American Lung Association in
5 California will be releasing an analysis next month
6 showing the health and climate benefits of the zero
7 emission vehicle regulation in California, and all 10 ZEV
8 states, and underscoring the importance of moving forward
9 as quickly as possible to achieve these benefits. And
10 we'll be looking at avoided costs and avoided health
11 outcomes from a focus on zero emission. So we look
12 forward to bringing this to you and continuing to talk
13 about the important benefits.

14 As we move forward, partnerships are going to be
15 a key theme. We look forward to you -- your partnership
16 with the air districts, local agencies, and we want to be
17 a partner with the public health community working with
18 you toward this strong plan.

19 MR. NOYES: Good morning, Chair Nichols, members
20 of the Board. My name is Graham Noyes. Thank you for the
21 opportunity to address the Board. I'm going to express
22 thanks and support from 2 different groups this morning
23 regarding the Stated Implementation Plan, and do it very
24 quickly.

25 First off, on behalf of the Low Carbon Fuels

1 Coalition, I've been working with the biofuels industry
2 now for 15 years. We're now evolving into the low carbon
3 fuels industry. Throughout that time, we have asked for
4 strong and consistent policy signals. And I can say now
5 that California is delivering the strongest and most
6 consistent policy signals we've seen.

7 Now, with SB 32, we have a 2030 number that's
8 very aggressive to think about. And within the State
9 Implementation Plan, we have a 2031 number for low
10 emission diesel fuel that's very clear, tremendous policy
11 signal, and the industry is going to step and respond to
12 that. So we thank you for that integration in the plan.

13 Secondly, on behalf of clients that I'm
14 representing in the aviation fuels sector that are
15 producing low carbon aviation fuels. I'd like to thank
16 Executive Officer Corey and his staff for the support that
17 they've given to the idea of integrating low carbon
18 aviation fuels into the Low Carbon Fuel Standard. That's
19 something we've discussed at other Board meetings. They
20 have not committed to anything, but been very open to
21 discussions and to accelerating that process. And we're
22 right now involved in a literature review looking at the
23 emissions reductions, particularly around PM, that are
24 available from that initiative as essentially co-benefits
25 off the LCFS. As Chair Nichols pointed out, there are

1 often opportunities for co-benefits, and we see those
2 here.

3 We already have AltAir supplying United in LAX
4 already delivering some benefits. And we think these
5 policy signals can drive that faster.

6 So thank you.

7 CHAIR NICHOLS: Thanks.

8 MS. VAN OSTEN: Good morning, Madam Chair and
9 members -- Board members. Kathy Van Osten representing
10 United Airlines, and just wanted to take a moment today to
11 thank the Board, the Board's interest, and the work of
12 your staff with respect to the renewable aviation fuels
13 issue.

14 We've made some great progress this year. I do
15 see the work that we have done and the work that we are
16 continuing to do as a great complement, a dovetail, with
17 the State Implementation Plan. What we've seen over the
18 last 15 years are economic drivers with respect to
19 reducing fuel consumption among the airlines. We saw fuel
20 go from \$0.52 a gallon about 15 years ago. It spiked with
21 the fuel crisis at about 4.25. Most of the airlines --
22 United Airlines was in bankruptcy at that point in time.
23 So every morsel of fuel that they could conserve, they
24 worked on those practices.

25 They developed the wing tips, they altered their

1 flying practices. Everything that they could do to
2 conserve fuel has been done, and incorporated into their
3 standard practices. So where there has been control, the
4 airlines have done it. There is a new international
5 agreement by IATA, it's International Aviation
6 Transportation Association. They have goals that they've
7 set for 2020. And as much as we can -- United is striving
8 to work towards those goals, there are certain things that
9 are just simply out of our control, which is access to the
10 renewable fuels -- renewable aviation fuels.

11 And we do see that happening as soon as we can
12 get into the LCFS, as soon as renewable aviation fuels are
13 incorporated in that. The Board was very gracious, you
14 included us in the Low Carbon Incentive Fund Program this
15 year -- earlier this year. We worked hard up until the
16 very end of session to try to make sure that there was
17 funding available in that program. Those doors were
18 yanked at the last minute, so we were disappointed in
19 that.

20 So as much as we can continue to work quickly,
21 swiftly with the Board and your staff under the LCFS
22 program, we would certainly stand here willing to do our
23 part. So thank you very much.

24 CHAIR NICHOLS: Thank you.

25 MR. CAMPBELL: Good morning, Madam Chair and

1 members of the Board. My name is Todd Campbell
2 representing Clean Energy, a conventional natural gas as
3 well as renewable natural gas fuel provider for light-,
4 medium-, and heavy-duty vehicles.

5 Clean Energy generally supports the staff's
6 proposed strategic plan, because it properly emphasizes
7 the need for significant mobile sources or source emission
8 reductions and identifies zero and near zero emission
9 strategies as the key strategies required to reduce a
10 daunting 80 percent of NOx emissions within the next 15
11 years.

12 We, however, want the Board to direct staff to
13 embrace or be more embracive of near zero emission
14 strategies for heavy-duty vehicle fleets on an equal
15 footing with zero emission strategies by establishing
16 emissions reduction targets or metrics required by each
17 fleet to achieve a tons-per-day target under the SIP.

18 This is particularly critical when the data
19 suggests that both zero and near zero mission strategies
20 are comparable in NOx emission reductions, but near zero
21 strategies tend to be far more cost effective.

22 It is not lost upon us that the agency wants to
23 eliminate emissions from the transportation sector to the
24 maximum extent possible, but the reality of achieving this
25 goals in the heavy-duty space is at least several decades

1 away. We simply cannot afford to lose the momentum on air
2 quality goals by narrowly focusing on zero emission
3 strategies, when it comes to designing heavy-duty fleet
4 measures within the SIP, given the urgency in meeting
5 federal ozone attainment in the less than 7 years, and the
6 need to reduce emissions on a mass scale now in our
7 communities.

8 This is particularly true for 2 extreme
9 nonattainment regions, the South Coast and the San Joaquin
10 that are heavily impacted by heavy-duty truck emissions.

11 The South Coast Air Basin estimates that they
12 need approximately 270,000 low NOx heavy-duty vehicles
13 powered by renewable fuels deployed before the 2023
14 deadline.

15 Meanwhile, the State's proposed strategic plan
16 depends heavily upon vehicle incentives to encourage low
17 NOx and bus adoption prior to 2023, since the soonest
18 implementation of a low-NOx engine rule will not go into
19 effect until 2023.

20 The point has already been made by Earthjustice
21 and the Coalition for Clean Air and several other groups
22 that these funds may not be sufficient, the incentive
23 funds. It is therefore critical that this Board send
24 market signals now to both industry and fleet customers
25 that California wants a 0.02 gram low-NOx engine standard

1 powered by renewable fuels, especially if zero emission
2 trucks and buses are not feasible or affordable within the
3 required time frame.

4 Honorable Board members, we need to encourage
5 more engine manufacturers to produce, quite frankly, more
6 zero emission or near zero emission low-NOx engines at
7 0.02 grams, and ensure fleet customers that this agency
8 will not abandon them and their capital investments
9 already made in the pursuit of clean air.

10 Specifically, we should provide such assurances
11 be equally emphasizing zero and near zero emission vehicle
12 strategies in the proposed advanced clean transit measure,
13 the last mile delivery truck measure, and the airport
14 shuttle fleet measure.

15 We urge you, if I may, to sum up -- we urge you
16 to set emission targets not pick winners, so that we can
17 successfully deliver clean air to our communities,
18 especially to those who are most burdened by toxic air
19 pollution.

20 And, you know, my final thought is we need to do
21 all we can, and we need to make sure that in these
22 measures that we're embracing these strategies, because
23 history from being on the nonprofit side and now in the
24 business side, for me being with you, says that if we
25 don't embrace these technologies, diesel will continue to

1 dominate the market.

2 With that, I'd like to thank you and thank you
3 for your time. I'd like also like to thank the staff for
4 their hard work on this document.

5 CHAIR NICHOLS: Thank you. Mr. Blumberg and one
6 more, Steve Douglas also wants to speak.

7 MR. BLUMBERG: Good morning, Madam Chair and
8 members of the Board. My name is Louis Blumberg. I'm the
9 director of the California Climate Change Program for the
10 Nature Conservancy.

11 When I came here, I had not intended to comment
12 on this item. And unfortunately, we do not have the
13 capacity to really engage in the development of this
14 particular plan. But I was struck, Madam Chair, by your
15 comments about how the connection of the various
16 activities in which the ARB is engaged in produce multiple
17 benefits, and I wanted to underscore that and comment on
18 that.

19 And so for the past decade, our focus has been on
20 the reduction of greenhouse gases through the
21 implementation of AB 32, but we are also concerned about
22 air pollution and public health impacts, including those
23 to localized health -- communities.

24 And so we want to just lend our support to this
25 effort and encourage ARB to continue to develop a strong

1 rule that will reduce criteria air pollutants and air
2 toxics, protect public health, and also for the additional
3 co-benefits of reducing greenhouse gases, which will help
4 California meet its greenhouse gas goals, as well as have
5 a global impact.

6 Thank you.

7 CHAIR NICHOLS: Thank you.

8 Okay. Last word.

9 MR. DOUGLAS: Okay. Thank you, Chair Nichols.

10 I'm Steve Douglas with the Alliance of Automobile
11 Manufacturers. We're a trade association representing 12
12 car and light truck manufacturers. And I appreciate the
13 opportunity. I didn't intend to speak today either, and
14 so I appreciate you accommodating me.

15 I appreciate the staff's work on this, and we
16 have worked with them. And we've identified a few issues
17 which we've discussed with the staff, and we'll continue
18 to work with them on those, but I think what struck me is
19 all the numbers that have been thrown around the zero
20 emission vehicle requirements.

21 So we've got 1 million, 1.5, 4 million. And I
22 think what we need more than yet another number, which is
23 a target goal requirement, is a market for those vehicles.
24 And so I think from the manufacturers perspective, our
25 goal with the ZEV Program is a robust, sustainable, and

1 growing ZEV market. That's where we want to be in 2021.
2 It's where we want to be in 2025. And I think that's
3 where we have to be if we want to grow this market, if we
4 want to meet the goals, the long-term goals of the auto
5 industry and the Air Resources Board and the nation, in
6 fact.

7 So along those lines, what have the manufacturers
8 been doing? And I guess this is also somewhat a defense
9 of the much maligned ZEV credit program, which has been
10 termed a failure, a ZEV credit glut. And I think from our
11 perspective, over the last 3 years, we've doubled the
12 number of ZEV models from 12. And today -- by the end of
13 this year there will be over 30, almost 35 different ZEV
14 models. They're in every vehicle category from
15 subcompact, mini-compact, to standard size SUV. We have
16 2-wheel drive, we have all-wheel drive ZEV. And we have
17 them in every different technology from plug-in hybrid
18 electric vehicles with short range, with long range. We
19 have battery electric vehicles. Soon, we'll have a mass
20 market long range battery electric vehicle.

21 And we have -- so those are all kind of the
22 result of the credit program, and it's the result of the
23 manufacturers. So I think from our perspective, the focus
24 should be, and this is our focus certainly, is on
25 developing the market. And some areas that we believe are

1 important in the next few years are infrastructure.
2 California is far behind in developing the infrastructure
3 for plug-in electric vehicles. And we're developing it
4 for hydrogen.

5 The incentives are going away. We've sponsored
6 legislation. We've worked very hard, and we've worked
7 with ARB to encourage incentives and support legislation
8 to do that.

9 So from our perspective, like I say, rather than
10 yet another number, I think a focus on the market is where
11 we should -- we should focus on the next few years.

12 So with that, I'd like to thank you.

13 CHAIR NICHOLS: Okay. Thank you.

14 If there's a point of view out there that we have
15 failed to hear from, I don't know what it is.

16 (Laughter.)

17 CHAIR NICHOLS: Every issue that relates to a
18 mobile source strategy, whether you manufacture or
19 purchase, or use, breathe, whether you're on the fuel
20 side, or the vehicle side, everyone has an opinion. The
21 good news is that they're all here, and they're all
22 interested and engaged.

23 It speaks very well of California that people
24 take it so seriously, but it does put a lot of burden on
25 our staff to come up with something here that really tries

1 to meet all of those needs.

2 And we've heard some criticisms of the pursuit
3 that they are engaged in, or some suggestions that they
4 may have perhaps neglected some areas of thought. So, you
5 know, if Board members wish to comment on any of that,
6 they should. I know that we do have one question or
7 comment down here from Mr. Serna.

8 BOARD MEMBER SERNA: Great. Thank you, Chair
9 Nichols. And thanks to staff for all the work done to
10 date on this subject and the presentation today. And
11 thanks to the many that decided to share their opinions
12 about the work done so far.

13 I want to preface everything I'm going to say,
14 including my question, with I do wear another hat. I am a
15 director on our local regional transit district board of
16 directors. And we obviously heard this morning from a
17 number of organizations, the representatives, about their
18 concerns from two pretty extreme perspectives about ACT.

19 And I guess my first question is, is just one
20 that wasn't clear in the presentation. I wanted some
21 clarity, and that was whether or not the Environmental
22 Analysis for the SIP is -- the public comment is out now.
23 It's going to be out for review soon. How much
24 opportunity is there left for public comment?

25 DEPUTY EXECUTIVE OFFICER KARPEROS: Supervisor

1 Serna, we've had one cycle of public comment on this plan.
2 That comment period ended some several weeks ago. But we
3 will be taking your guidance and reviewing the comments
4 we've got here, and be revising the document. It will be
5 released again before we bring it back to you after the
6 first of the year. And so there will be a comment period
7 between now essentially and the end of the year that folks
8 can weigh in.

9 BOARD MEMBER SERNA: So there will be -- there
10 will be an opportunity between today's informational
11 understanding about the SIP Strategy. We're intending to
12 take action in January, are we not, on it?

13 DEPUTY EXECUTIVE OFFICER KARPEROS: Yes.

14 BOARD MEMBER SERNA: So there will be some
15 opportunity for not just this Board but the general
16 public, other advocacy organizations to continue to
17 provide comments?

18 DEPUTY EXECUTIVE OFFICER KARPEROS: Absolutely,
19 there will be, yes.

20 BOARD MEMBER SERNA: Okay. Very good. Thank
21 you.

22 So wearing that other hat, and kind of looking
23 through the lens of the challenges of not just our local
24 transit district here in Sacramento, but I would assume
25 across the State, no one wants to see electric buses, zero

1 emission vehicles as part of our fleets more than me as a
2 member of a local transit district board of directors.

3 But I guess I'm -- I still express concern as I
4 did back in January about understanding kind of the cost
5 elasticity of -- and the availability of zero emission bus
6 fleets that won't bankrupt local districts.

7 We hear -- we heard from a number of
8 organizations today, both environmental, social justice,
9 transit district representation itself, manufacturers, and
10 they all have a concern. I think we all want to go in the
11 same direction. We want to see those fleets deployed
12 sooner rather than later. But my concern is not all
13 transit districts are made alike, not all of them are --
14 have the same circumstance.

15 I can tell you here locally, it's no secret that
16 we are facing the end of useful life for our light rail
17 transit trains, that perhaps some even took today to get
18 to this hearing. That's about \$150 million nut for our
19 local transit district. So I say that, because if there
20 aren't going to be ample incentives, different ways to
21 bring down that effective cost for local transit districts
22 to meet the intent to get to where we want to be by 2030
23 and the full deployment of -- and maximization of zero
24 emission transit fleets, we could very easily -- I can see
25 very easily having a very unintended and severe

1 consequence of having to make adjustments -- and I said
2 this back in February -- make adjustments in terms of
3 service delivery.

4 And if the intent is to maximize ridership, as
5 you know a representative from, I believe, the Sierra Club
6 mentioned in her testimony, we really -- I feel we really
7 run the risk of seeing some of those unintended
8 consequences materialize.

9 So, I mean, this is probably one of the most
10 precarious parts of what we're trying to do through the
11 SIP. I think that's why we heard as much as we did on
12 this particular subtopic of it this morning.

13 So I'd like to understand just how much we
14 understand, you understand, what that elasticity is, what
15 are we doing to continue to work with the transit agencies
16 to make sure that we have as clear an understanding about
17 how to avoid those unintended consequences moving forward.

18 DEPUTY EXECUTIVE OFFICER AYALA: Let me try to
19 address your comments directly, Supervisor Serna, and
20 maybe provide some additional perspective for the Board.

21 Certainly, on behalf of staff, because one of the
22 things that surprised me is the criticism that we're
23 moving too slow. Typically, we're not accused of that.

24 (Laughter.)

25 DEPUTY EXECUTIVE OFFICER AYALA: And exactly what

1 you said, because we understand and completely heard your
2 direction, that we are taking our time and being very
3 deliberate to understand the needs and the potential
4 opportunities for each transit agency. That is a reason
5 we are taking a very methodical, very deliberate approach.

6 The reason you hear such different numbers in
7 terms of our cost estimates versus some of the transit
8 agencies is fundamentally a difference in the assumptions
9 that we are working with. And again, that is going to be
10 part of the process. We need to continue to work together
11 to make sure the staff's approach was essentially to put
12 our first take at the cost, and the cost analysis, and the
13 assumptions that go into that cost analysis. So industry
14 and others have opportunity now to actually look at the
15 assumptions we're going to be using.

16 What we have not done is iterated on that process
17 and going back to them. But again, we need to balance
18 that with the criticism you heard today of staff, which
19 apparently is, you know, we need to move very quickly to a
20 policy proposal.

21 We completely hear you, and understand that what
22 we want to do is achieve a balanced approach. We
23 understand that the need to get to zero is critical to
24 what the State is trying to do, but at the same time, we
25 completely agree with you. This is not about disrupting

1 service or changing service. This is really about
2 improving to, as Professor Sperling often comments, an
3 innovative transit approach.

4 But we are going to be taking a deliberate
5 step-by-step process, and we're going to go back and
6 interact with you and the industry and others. We want to
7 bring you a proposal as soon as possible, but at the same
8 time, because we understand that this is so important, we
9 don't want to rush to something that is not fully
10 developed.

11 BOARD MEMBER SERNA: And I appreciate that. I
12 didn't issue my comments intending to have it be taken as
13 criticism in terms of timing of staff activity
14 necessarily. But I did open with a question about the
15 environmental analysis. Is there still an opportunity
16 through the comment process, especially from us as Board
17 members, if there isn't as robust a consideration or
18 acknowledgement in that document about what those possible
19 consequences could be, just, you know, depending on
20 various -- the kind of the incentive environment or not?

21 I think that -- I think that actually belongs in
22 the environmental analysis. It actually has, I think,
23 some serious consequence for the environment, and that's
24 what the -- that's the whole point of having this document
25 made public is to understand what the impacts may or may

1 not be.

2 And if the -- you know, if the incentive
3 environment is not what we hope it will be, which would be
4 a rich one, so that you don't necessarily squeeze the
5 transit districts to a point of having to explore things
6 like cuts in service, you know, I think that would be the
7 most informed position we can find ourselves in.

8 So that would be my direct clear comment
9 hopefully to -- and suggestion to staff today is that that
10 environmental analysis should have some very clear,
11 understandable presentation of that relationship between
12 the capital expense involved and the prospect of service
13 change.

14 CHAIR NICHOLS: Okay. Supervisor Roberts.

15 BOARD MEMBER ROBERTS: Well, thank you, Madam
16 Chair.

17 CHAIR NICHOLS: Also a transit agency official, I
18 believe.

19 BOARD MEMBER ROBERTS: I was -- full disclosure.

20 CHAIR NICHOLS: Yes, yes.

21 BOARD MEMBER ROBERTS: Just like Supervisor Serna
22 at the other end, I, too, am very involved with transit
23 and have been for a good long period, almost 30 years now.

24 And I -- first off, I want to start by
25 complimenting L.A. Transit. We were there last week, and

1 I got to ride the trolleys and the subways, and get
2 completely lost at times with having fun. And I even had
3 one of the Sheriffs stop me to make sure I had a pass.

4 (Laughter.)

5 BOARD MEMBER ROBERTS: You know, so I always
6 checked out in every, way, shape or form, and fortunately
7 I was okay. Everything worked out.

8 (Laughter.)

9 BOARD MEMBER ROBERTS: I was also interested in
10 hearing how their trolley line and their NFL is working
11 out, because we have a slightly different situation where
12 the NFL is trying to take over one of our major bus
13 facilities. I shouldn't say the NFL. It's one of the
14 teams. You can narrow it down and figure it out.

15 (Laughter.)

16 BOARD MEMBER ROBERTS: But -- so we have kind of
17 a different relationship. And they -- you know, they're
18 doing planning. And, of course, they haven't even
19 considered that you're going to need a different kind of
20 trolley service and other things, you know, new types of
21 stations.

22 But that being -- we did have a very good week,
23 in that -- just to give you an idea that there are things
24 going on in the world of electricity. We were able to
25 sign a full funding agreement last Wednesday with the

1 federal government. They will be providing just in excess
2 of 1. -- over \$1 billion for a new trolley line. We will
3 match that with local funds. We're spending a lot to
4 electrify. That's a \$2 billion project that will go to
5 one of the universities.

6 And I'm saying this -- I should also mention,
7 Saturday we had one of the largest displays of electric
8 cars, and trucks, and bicycles, and everything else -- I'm
9 told the largest in the State up to this point -- at our
10 stadium. And people came to be able to drive those cars,
11 to sample them, and really decide, in many cases, what
12 they're going to buy here in the future. It was a
13 really -- it was a good promotion. And we had all of the
14 stakeholders involved. So there's a lot going on that's
15 really positive in the world of electricity.

16 I guess what -- you know, what I want to say,
17 public transit is not our enemy. Okay. They're not out
18 there trying to destroy anybody or harm the environment.
19 It's one of the best allies that we have. And trying to
20 make improvements, and many of the improvements that have
21 been made, are because we've had these successes.

22 We've had successes, because we've relied on
23 performance-driven standards. Okay. Supervisor Serna
24 said that, that all the transit agencies, we're not alike.
25 We're not all alike. We're different. And the needs are

1 different, and the operations are different.

2 Now, I know we have -- we have some disagreements
3 now over costs that we need to work on. There's no
4 question about that. We've heard that clearly.

5 But there's operational costs. It's not just the
6 cost of a bus. It's operational expenses. It's
7 replacement expenses. There's a whole series of things.
8 And there are alternatives, and we need to consider the
9 alternatives. Okay.

10 We should know -- we should have an analysis from
11 the source to the wheels on electricity. You know, we're
12 hearing about low NOx engines. We should know about these
13 things, and we shouldn't just rule them out, because we're
14 talking about all electric. We need to know what the
15 differentials are, and if there are, and what the
16 implications are from a cost standpoint, because they may
17 be considerable.

18 At the end of the day, I think what most people
19 are interested in is how do we get the services, and how
20 do we get more people riding, how do we get the
21 frequencies? In all my experience, the one thing I've
22 learned, the more -- the frequency of service is like the
23 biggest issue. And if we load expenses in a way that we
24 have to either reduce or not expand services, we haven't
25 done -- we've done a disservice.

1 So I'd like to make sure we're being very, very
2 thorough in this regard, and to allow the nimbleness that
3 I heard referred to in one of the comments in planning,
4 and not just prescribe here's the solution, but let's
5 start to look at performance. What are we trying to
6 achieve? And maybe we have a standard for fleets and
7 agencies, and let them kind of decide what their mix is
8 going to be.

9 Some may opt to spend a lot of money in fixed
10 rail, electrified systems, and others may -- we've seen
11 smaller agencies that say, well, we can go to buses.
12 Well, they don't have anything other than buses. And it
13 makes it a very different game.

14 So I see a lot of -- we're all after the same
15 thing here. And it's a question of how we get there. And
16 we've found in the past when we talked about all electric,
17 there were times when we get out in front of the
18 technology, and it didn't work so good, and we had to
19 regroup and come back and change things. And because of
20 that, there's a real success story going on in California.
21 I want to see that continue, and I think we have the
22 capability of doing it.

23 I hope between now and January that some of these
24 issues -- I almost feel like we need to see this somewhere
25 in mid-course, because I don't feel like we've -- I don't

1 feel like I'm equipped now, much more than I was months
2 ago when we talked about this. The issues and the
3 concerns seem to be largely the same, and, you know, with
4 respect to cost, and performance, and other things.

5 So it may be that it's introduced in January and
6 it's going to take some time to get through it. I don't
7 think anybody is saying rush into this. I think we're
8 saying let's get this right, because at the end of the
9 day, there is a lot at stake here. And if it's done
10 right, this could be a major, major success story.

11 And I think that every transit agency I'm
12 involved with and those that I've met with are -- they
13 want to see it done right. So thank you

14 CHAIR NICHOLS: Dr. Balmes.

15 BOARD MEMBER BALMES: Well, I want to move away
16 from the Advanced Clean Transit rule to sort of the
17 macro-picture here. You know, first of all, I greatly
18 appreciate the staff's work on this. And, you know, I
19 love the slide where we're integrating multiple programs
20 into one. I always brag about that's what one of the
21 things that we're trying to do is integrate our climate
22 change, and our air quality, and our toxics reduction
23 programs.

24 But that said, I want to echo several of the
25 witnesses who testified before us. You know, where is the

1 money? You know, I really feel that -- and we haven't
2 even been able to adequately fund CVRP for the last few
3 years. And the incentives that we're talking about here
4 are huge.

5 I mean, I've seen figures from the South Coast
6 that they need from 500 million to a billion dollars a
7 year in dollars for the incentive programs. And I just
8 don't see where that, you know, money is coming from. I
9 also read what Mr. Martinez read in the LA Times today
10 about a \$30 to \$60 vehicle registration fee, which the LA
11 Times said would be considered a tax, and would have to be
12 passed by a two-thirds majority here in the legislature.

13 You know, let's get real, and maybe that would
14 happen, but I don't think we can count on it. And
15 somebody -- I believe it was Michele Hasson talked about
16 the green box. I love that term. I'm going to, you know,
17 keep that.

18 BOARD MEMBER ROBERTS: That was good.

19 BOARD MEMBER BALMES: You know, the amount of
20 scrapping of vehicles that the plan talks about, it's like
21 70 to 80 thousand per year of cars. We're currently
22 scrapping like 1,000 per year.

23 You know, who's going to administer this? You
24 know, it's like we'd have to turn into a bank. We or the
25 districts, I guess, more likely. We get -- you know, I've

1 been party to multiple discussions about we can't add
2 another thing on to the staff. I totally agree that staff
3 is overworked. But this kind of financial administration,
4 again, I don't see where the infrastructure -- you know,
5 the personnel infrastructure for that is.

6 So, you know -- and I haven't even talked about
7 trucks, you know, what -- it would be like 15 to 20
8 thousand trucks per year that we're going to be turning
9 over. And, you know, I guess I feel a little bit more
10 optimistic about trucks than cars.

11 But in any event, I'm really worried that this
12 plan is kind of fantasy with regard to the dollars. You
13 know, if we could implement all this -- these incentive
14 programs with real dollars, I would feel much better.

15 So, you know, I could go on to details, but I
16 think I'd rather just leave it at that, that I -- right
17 now, I consider this total fantasy.

18 CHAIR NICHOLS: Okay. Yes. Dr. Sperling.

19 BOARD MEMBER SPERLING: So I want to just briefly
20 frame what we're doing, and then focus on a couple things.
21 I'm going to praise staff and challenge staff at the same
22 time.

23 I think, you know, one thing we should be
24 declaring maybe not victory, but, you know, acknowledge a
25 huge success we have had in reducing emissions from cars

1 and light-duty vehicles. I mean, it's extraordinary what
2 we've achieved, and, you know, almost no one is talking
3 about it. We're on path to even further reductions.

4 So that's a big success story. Now, there's that
5 piece of it like beyond 2025, 2030 where we're going to
6 get into the electric drive and ZEV technology. And I
7 agree with, I guess it was, Steve Douglas, you know, we
8 really need to focus on the market development. And
9 there's a lot of people are thinking about that, but I'll
10 just leave that on the table.

11 The other big area is trucks. And there we've
12 also had huge improvement, huge success. Now, it's
13 lagging probably 20 years -- you know, we started
14 regulating the trucks in a serious way, you know, about 20
15 years after cars. And there are a variety of reasons for
16 that, and -- but now, we've made a lot of progress.

17 But now, just like with cars, we're kind of at
18 the tail of the distribution or at the -- you know, we've
19 captured all the low-hanging fruit. And it's getting a
20 lot more complicated and a lot harder, because we still
21 have improvements we want, still have health problems,
22 still have -- and we have a long ways to go on greenhouse
23 gases.

24 So my thought here is that -- and this was
25 motivated -- last night, there were a number of us that

1 were at a meeting with the truck manufacturers. There are
2 a couple -- a few of us Board members, and senior staff.
3 And it really struck me that we really need to start
4 getting more creative in some of the things we do. Some
5 of the old blunt instruments that we used that worked real
6 well when there was low-hanging fruit were very effective.

7 But, you know, trucks and buses, and the next
8 generation of cars, we need to be getting a little more
9 creative, and I -- so I don't have the answers for that
10 but I would say for trucks, it's really expensive to go
11 from, you know, another 90 percent reduction in NOx
12 emissions. And I'm not sure we're going to be able to
13 convince the Feds to do it anyway. I'm not involved in
14 that debate discussion, so I'm not sure, but I suspect
15 that's going to be difficult.

16 Maybe we can get -- you know, maybe we ought to
17 be aiming for, you know, instead of 0.2 grams, you know,
18 0.1 -- you know, going to 0.1 instead of 0.02, or
19 something like that, but that's even very expensive. So
20 maybe the areas that are polluted are areas we're going to
21 focus on. And I just keep thinking there has to be more
22 creative approaches that we look at those polluted areas
23 and we -- you know, now with all the technology exists, we
24 can geofence these areas, and we can, you know, perhaps
25 even either require or incentivize the very low-polluting

1 or zero emission technology in those areas without having
2 to go to 0.02 grams for the whole country, world, which
3 extraordinarily expensive in places that don't have major
4 pollution problems, but look at it more creatively.

5 And we certainly, I think -- it's clear we can
6 get lower emission trucks, and -- in the new Cummins
7 Westport natural gas engine is really promising. It's
8 great. It's coming out, but it is on a -- running on a
9 gas. It's going to be much harder running it on diesel
10 fuel.

11 So anyway, so one -- a plea there for a little
12 more. And I know this is hard on staff, because flex --
13 you know, thinking about more creatively means a lot more
14 effort. But the other area is the transit and I'll just
15 leave it at that is, you know, as several Board members
16 have said, as we said in a previous meeting, I mean, I was
17 bombarded more by the transit people for this item than
18 anything else. And I think there is a real issue here
19 about cost on the one hand, and -- looking forward, and
20 creating moral alternatives.

21 The trend -- as Dr. Ayala says -- hinted at, you
22 know, my theme about innovative transit, we are in the
23 last -- just in the last 6 months even, the transit
24 industry has really embraced working with all of these new
25 types of mobility services, and thinking about how can

1 they integrate better to reduce their cost, to expand
2 their market?

3 Because at the end of the day, our public transit
4 system is supplying 3 or 4 percent of our passenger miles.
5 That's tiny. So the goal should be to be greatly
6 expanding it. And if we're going to do anything that's
7 going to inhibit that, it makes me very nervous, and makes
8 me wonder if we've got our priorities right.

9 You know, this is -- you know, people keep
10 focusing on the disadvantaged communities, and
11 disadvantaged riders, and EJ issues. To me, improving
12 transit -- we should be talking about improving transit
13 service, not just holding it constant, and trying to, you
14 know, deal with the cost. We should be improving it and
15 expanding it.

16 And that's -- that would be my focus. And
17 I'm -- I'd be -- you know, I think that's the discussion
18 we need to have.

19 CHAIR NICHOLS: I'm waiting -- okay. One more.
20 Yeah, or maybe more.

21 BOARD MEMBER MITCHELL: Thank you, and thank you,
22 Dr. Sperling, for those comments, because it does
23 highlight the tremendous challenges that we face certainly
24 in the South Coast District and San Joaquin Valley.

25 And I, first of all, want to thank our staff for

1 all the work they've done. They have been very
2 collaborative with our districts, and we really thank you
3 for that. I think it's really a good step and a necessary
4 step, because what we do we need to do together. We talk
5 about how much it's going to cost in the South Coast
6 District under the current plan, the -- and you're right,
7 Dr. Balmes, it was estimated to be a billion a year.

8 But I also want to highlight that most of our
9 pollution is from mobile sources. And it's the ARB's
10 responsibility to control mobile sources. So that's why
11 this important work in working together is really
12 critical.

13 I want to say a couple of things that the -- a
14 lot of the target is on the heavy-duty sector. And the
15 heavy-duty sector really depends on new technology to get
16 where we need to go. And we've seen wonderful strides in
17 that new technology with the Cummins Westport engine.
18 That's 0.02 NOx. And, of course, that has led us in the
19 South Coast to file the petition for a federal regulation
20 on low NOx.

21 And we expect that this Air Board and this Agency
22 will follow suit in the next year with support for that
23 federal regulation.

24 The other thing I want to mention, because it's a
25 bit of a mystery to me is renewable natural gas. I have

1 heard from the people in the natural gas industry that
2 renewable natural gas gets us to zero and negative zero.
3 I don't -- I don't know whether I shall accept that as a
4 statement, but it seems to me with a lot of our bus fleets
5 operating on natural gas, that -- and we also just have
6 1383 -- SB 1383 come into being, and this goes sort of
7 back to our Chairman's initial comments about what we do
8 hear. We have lots of realms of responsibility.

9 One of those is our approach to short-lived
10 climate pollutants, and 1383 is the bill that addresses
11 that. But that's also a pathway to renewable natural gas.

12 And then the transition of fleets from natural
13 gas to renewable natural gas is cost effective.

14 I -- as -- from what I understand. And I just think
15 that's an area that our staff should be looking into. If
16 we're going to coordinate and complement one set of
17 strategies with another, this is an opportunity to do
18 that.

19 So I welcome further collaboration between the
20 South Coast District staff and this staff. And whatever
21 may be needed, I'm willing to pitch in and help with that.
22 So thank you for all your good work

23 CHAIR NICHOLS: Ms. Berg.

24 VICE CHAIR BERG: Thank you.

25 Thank you very much for a great opening item.

1 Certainly, we've got lots.

2 (Laughter.)

3 VICE CHAIR BERG: I'm look forward to lunch, I
4 think.

5 (Laughter.)

6 VICE CHAIR BERG: Thank you so much, staff.

7 This has -- you've been really working -- we've
8 been talking about this for well over maybe even two
9 years, how we're going to approach this, and what we're
10 going to be looking at. I really appreciated Chair
11 Nichols' opening comment highlighting the challenge of
12 really looking at the planning and the creating on 3
13 different planes and how complicated that is.

14 So the only comment that I'm going to make today
15 is really about strategy. And we'd look at strategy,
16 we've got short-term strategy, and short-term needs,
17 short-term benchmarks, short-term levels that we need to
18 meet, and we have long term, and as Ms. Mitchell just
19 indicated, how important technology is.

20 And technology really depends on market
21 certainty, because in our world of companies, they want to
22 really look at opportunities that is going to create a
23 sustainable business. On the other hand, for businesses,
24 they're looking at the fact that lifecycle for equipment
25 and versus stranded assets, and what are we looking at

1 that is creating market certainty for them?

2 Well, one is short term and one is -- tends to be
3 long term. And they can be in conflict with each other,
4 because as we're trying to build technology opportunity,
5 and through incentive creating early action, on the other
6 hand, you've got marketplaces that are waiting. Are we
7 going to go to near zero? Am I going to get my 15, 20, 30
8 years of useful life? Are we going to go to -- wait and
9 go to zero.

10 And so this tension is something within the SIP.
11 And when I talk to various stakeholders, I'm really seeing
12 that tension. And how we can try to frame up how both of
13 these have got to work in lockstep together, I think could
14 be really helpful.

15 And I do have a list. I'll be working with
16 staff. I'm not going to go over that right this moment,
17 and available to help.

18 Thanks.

19 CHAIR NICHOLS: Yes. Mr. De La Torre.

20 BOARD MEMBER DE LA TORRE: Just very brief.
21 Again, thank you, staff, for putting this together. And
22 all of the comments are very well taken from the public.
23 But I want to just state my personal view, that at the end
24 of the day, we, this Board, CARB, are responsible for
25 submitting compliant SIPs to the federal government,

1 compliant with the federal Clean Air Act.

2 And I, for one, am not going to send something
3 along that I know is flawed. And so whatever we get from
4 the regions better be something that we all are
5 comfortable sending along, that it is compliant, that --
6 there's always going to be some unknowns, but that those
7 unknowns are kept to a bare minimum, and that there is a
8 bridge for those unknowns to be resolved in the time
9 period. I think that's the fundamental thing that we need
10 to say here on the first day of this conversation.

11 Thank you.

12 CHAIR NICHOLS: Thank you. I probably hinted at
13 this before, but, you know, one of the great advantages of
14 growing older is that you've heard many things before,
15 and --

16 (Laughter.)

17 CHAIR NICHOLS: -- so I'd like to comment on a
18 couple of them.

19 One is the low-hanging fruit. It's always
20 low-hanging fruit in the rear-view mirror. It didn't feel
21 like low-hanging fruit at the time that we were adopting
22 and implementing those truck rules. None of it felt like
23 low-hanging fruit. It was really hard, and it's going to
24 be hard again, not necessarily -- not necessarily harder,
25 just hard.

1 Secondly, we keep acting as though it's a zero
2 sum game. And maybe in life a lot of the time it is. And
3 maybe we don't, within our own agency, control all of the
4 levers that could bring more money into this equation.
5 But the fact is that it doesn't have to be a tradeoff
6 every time between clean and service, or clean and numbers
7 of buses purchased. If we are doing our job of
8 communicating with and working with others, including the
9 boards of the transit agencies, we maybe have a chance at
10 actually bringing some more resources into the equation.

11 Now, I have to say that most of the new resources
12 in my part of the world for expanding the rail has come
13 from a vote of the people, and tremendous leadership on
14 the part of a lot of citizens and elected officials to get
15 that done, to get people to come up with taxes that
16 they're willing to impose upon themselves to expand the
17 rail system.

18 It's long overdue, and it takes a long time, and
19 it's incredibly expensive, but it really is working. And
20 the fact that we always have some big events and a lack of
21 parking doesn't hurt either for sure. But I also can't
22 resist pointing out that from the State's perspective, the
23 only new source of funding that I'm aware of for transit
24 in the last several years is money from the Greenhouse Gas
25 Reduction Fund, which is money that was acquired from cap

1 and trade.

2 And the legislature made a decision to put a
3 significant chunk of that money into transit, because they
4 too saw that this was a very high priority, and something
5 that was really needed. But I am mindful of the fact,
6 again we all, you know, bring our experience to these
7 things, that, you know, I see in L.A., that the places
8 where the fueling is done, the big congregation of buses
9 is primarily in communities where it also is part of a
10 panoply of pollution sources that people live with.

11 So I can well understand why folks who, even if
12 they're transit dependent or are seeking more transit
13 service, would want to have the cleanest, best, if at all
14 possible, zero emission buses in their communities. And I
15 think that's one of the things that we should be putting
16 into our planning, as we think about how we roll any of
17 these new plans out.

18 So staff just go out and make it happen, please.

19 (Laughter.)

20 CHAIR NICHOLS: There they are, right?

21 (Laughter.)

22 CHAIR NICHOLS: Mr. Corey is turning red.

23 (Laughter.)

24 CHAIR NICHOLS: Seriously, this has been a really
25 enlightening and interesting discussion. I think we all

1 have additional thoughts and comments about this. But as
2 I see you moving forward -- oh, one more, sorry. Two
3 more. I'm sorry. You know, if you'd raise your hands, I
4 wouldn't have spoken then, because I try to be last, but
5 okay. Go ahead. I'll do it anyway.

6 (Laughter.)

7 BOARD MEMBER SHERRIFFS: You can still be last.

8 CHAIR NICHOLS: I could be.

9 Go ahead, Ms. Takvorian.

10 BOARD MEMBER TAKVORIAN: I was blaming Dr.
11 Sherriffs, because I'm height challenged, and you are
12 tall.

13 (Laughter.)

14 BOARD MEMBER TAKVORIAN: So you couldn't see me
15 here, but I'm here.

16 (Laughter.)

17 BOARD MEMBER TAKVORIAN: So thank you. And I
18 also want to thank everyone for being here, and for the
19 staff's hard work, and for all the commenters. And I,
20 too, Mary want to say that I really appreciate your
21 context setting in the beginning, because I think that
22 this is the key challenge that we have. How do we submit
23 a compliant SIP, as our colleague has stated, and how do
24 we also address the greenhouse gas reduction issues, and
25 the cap and trade issues that are coming forward, I think

1 today?

2 And I haven't heard enough about impacts to human
3 health. And I think that it's important -- obviously, we
4 all have to think about cost considerations, but I think
5 as Michele from CCAJ so eloquently stated, we have serious
6 problems. We continue to have those.

7 So even while we have made these huge
8 improvements, the bad situation we were in is not the --
9 you know, the threshold. We need to get to clean and
10 healthy communities. And you're right, Chair, that many
11 of these facilities of all kinds are in environmental
12 justice communities, those that are most disadvantaged.

13 So I guess I want to see a little more balance,
14 if you will, on the discussion of human health concerns,
15 and that of cost, because I know that all of our agencies
16 care deeply about that. I have no question in my mind
17 about it, but I -- but I really think that we have to push
18 that up.

19 We need to talk about what the impacts are, and
20 obviously to our climate. So in that vein, the incentives
21 are certainly critical, but they have to be combined with
22 mandatory regulations, as the Clean Air Act requires. And
23 I think we -- you know, I guess full disclosure, as
24 everyone else has. I'm not a transit agency member, but a
25 transit justice advocate. So we want more transit, not

1 less transit. We want cheaper transit, not more expensive
2 transit. We want cleaner transit and not to have these
3 fueling stations in our communities.

4 And the same thing is true for freight, and the
5 zero emission vehicles that have to be -- that have to
6 come forward in the heavy-duty sector. And as Dr.
7 Sperling said, but those have to get cleaner. They are in
8 environmental justice communities, in the most
9 disadvantaged communities.

10 So as we clean those up, everybody benefits, the
11 climate benefits, but those communities where these things
12 are concentrated are going to really benefit. And they're
13 the ones that are suffering the most at this point.

14 So we have a long way to go. But I guess my
15 question or my request would be that as we come forward
16 with the next hearing, and I guess in the next
17 environmental review, that the health impacts are lifted
18 up, and that we're able to look at those as well as what
19 are stunning costs, and we all recognize that.

20 Thank you.

21 BOARD MEMBER SHERRIFFS: Thank you. I trust I
22 won't be last.

23 Full disclosure, I won't talk about my hat, but
24 my tie is definitely a valley tie. It's got grapes on it,
25 and the raisins are rolled, so people are sleeping at

1 night. But anyway, valley perspective.

2 Yeah, agreed about the incentives and health.
3 You know, we talk about the incentives and the money. I
4 guess I'd back up and I think, you know, when I was first
5 appointed to the Board 4 or 5 years ago, anytime anybody
6 said ozone, you know, there was an audible gasp, and
7 people's hearts they either palpitated or stop beating,
8 because it just seemed like an impossible goal.

9 And it's really remarkable that here we are
10 today, yes, there's some heavy lifting, but ozone seems to
11 be achievable for the South Coast and for the San Joaquin
12 Valley.

13 And so some remarkable things have been
14 accomplished. And it's policies that are put in place and
15 pay forward. And I think that's one important way of
16 thinking about the incentives. You know, you hear a 500
17 million, a billion dollars per year from the South Coast.
18 Well, that's a big number, but it's a real number, and
19 it's not an impossible number. It's not a trillion
20 dollars a year. It's a doable number.

21 And when we think about -- when we think about,
22 you know, 1,000 lives, a billion dollars. Well, I'm not
23 sure about the math, but I think that's a million dollars
24 a life, which seems like a big number, and maybe people
25 don't think it's worth that.

1 But again, you pay it forward, because when you
2 do things that impact the health impacts, well, it's 1,000
3 lives now, but that billion dollars now -- now, you know,
4 we're talking 500 lives in the future, 250 lives. The
5 cost goes down over time.

6 So these are big numbers, real numbers, but
7 they're achievable numbers. South Coast, I believe, has a
8 plan. They're thinking about how to do this. And this
9 is, I think, encouraging, optimistic.

10 Now, more to do. You know, putting on my valley
11 hat. PM2.5, and reiterating Mr. Sheikh's comments, yeah,
12 we need more clarity about the 2.5 path. I think we
13 really need to work on that, because the valley -- the
14 Board in the valley is very nervous about these 2019, 2025
15 deadlines. There's a lot of anxiety. There's a lot of
16 concern about adverse economic consequences, the
17 implications of nonattainment. So I think it is very
18 important, very helpful that we be more specific, that we
19 focus on how this SIP will help us get there, meet those
20 deadlines.

21 Having said that, I think it -- we also need to
22 remember and emphasize -- well, you know, it's part of why
23 would anybody else put money into this? It's because we
24 step up. And so, yeah, the San Joaquin Valley has done a
25 lot, and we need to continue to do more. You know, in

1 some ways, it seems like squeezing what out of turnips, or
2 rocks, or whatever. But, you know, lawn and garden
3 products, wood burning, charbroiling. You know, it's hard
4 to believe that charbroiling has a -- as big an impact on
5 PM2.5 as it does, but it does. It's really important in
6 the Valley.

7 And doing more, although the districts are not
8 responsible for mobile, yeah, but we need to do more,
9 think about more that we can do to promote the near and
10 zero infrastructure. So that's work that I think needs to
11 go into tuning the plan.

12 So thank you.

13 CHAIR NICHOLS: Does anybody else feel moved to
14 comment?

15 BOARD MEMBER GIOIA: Sometimes when others say it
16 all, there's not a need to add more.

17 (Laughter.)

18 CHAIR NICHOLS: I will accept the wisdom of your
19 remarks --

20 (Laughter.)

21 CHAIR NICHOLS: -- and say that this item has
22 concluded, and we'll be back.

23 So let's move on. Before we take up the next
24 item on the agenda, however, I had asked that we receive
25 at least a brief summary of an important study that was

1 released last week, because it so relates to all of the
2 questions and concerns that are going to be coming up as
3 we move into items relating to cap and trade, and to more
4 generally really to our program for dealing with
5 greenhouse gases.

6 And unfortunately, by the time we realized that
7 we needed this presentation, all of the authors of the
8 study were otherwise engaged. We are going to have a
9 focused meeting, which Board members will be invited to
10 also, where we will really be able to engage with the
11 authors of the study.

12 But it seemed like it was valuable to have just a
13 summary. And this is -- I've put our fellow Board member
14 on the spot. He'll be earning his magnificent salary as a
15 Board member today, double duty. But since Dr. Balmes is
16 both a friend and colleague of some of the authors, and
17 also familiar with the type of study that we're talking
18 about, I guess, I asked him if we would just give us a
19 very brief summary of this new work that I think probably
20 everybody has at least heard about that, attempted to see
21 whether they could make a link between emissions in
22 communities near environmental justice communities and the
23 Cap-and-Trade Program.

24 And so without trying to characterize what it
25 means or what we do with it, I did ask Dr. Balmes if we

1 would just briefly give us a summary of the report. We're
2 going to do it right now, I think.

3 Well, I thought we were going to do it actually
4 before the greenhouse gas reporting rule, if that's okay.
5 Can we?

6 Yeah, okay.

7 BOARD MEMBER BALMES: Thank you, Chair Nichols.
8 When I suggested to the Chair that we might hear a report
9 from the authors about their report, she said they weren't
10 available, so I got stuck with it. And I -- she said she
11 didn't need slides, just five minutes of verbal summary.
12 But I do think a picture is worth a thousand words.

13 So I am going to do it in five minutes, but with
14 slides. You know as a professor, at Berkeley I teach
15 regularly, and I can't do anything without slides.

16 So first off, with regard to full disclosure, I
17 am a personal friend and colleague -- we used to share and
18 office actually with Rachel Morello-Frosch, who is
19 probably the senior author on this particular report,
20 because her student, who is -- there it is -- Lara Cushing
21 did probably the heavy lifting with regard to the
22 analysis, though this team of Morello-Frosch, Pastor and
23 Jim Sadd has done a lot of good work, including the
24 research that underpins the CalEnviroScreen that we're
25 using now.

1 And before I go into this particular report, I
2 just would say one thing I like about this group is that
3 they are sort of unabashed advocates for environmental
4 justice, but they do it with data, which I think is the
5 way to do it.

6 So this is a preliminary -- and that's important
7 to emphasize. The authors told me to emphasize that
8 they're not saying that this report is an end-all be-all
9 critique of cap and trade and its equity, because we've
10 only had the program for a couple years, but it's a start.

11 So a preliminary environmental equity assessment
12 of California's Cap-and-Trade Program.

13 So could I have the next slide.

14 --o0o--

15 BOARD MEMBER BALMES: So they focused on emitter
16 covered emissions. Now, that means the localized in-State
17 emissions mostly from fossil fuel combustion, and imported
18 electricity from out of State.

19 They don't deal with distributed emissions from
20 the transportation industry, but they warn us that that's
21 their next focus -- the focus of the next report. So what
22 they did was local -- localized with geocoding and other
23 techniques, where the high greenhouse gas emitting
24 facilities are located in the State.

25 And this set of maps shows the valley, Southern

1 California, and the Bay Area. And I think several of our
2 Board members probably live near some of these facilities.
3 And they showed that the number of facilities, high
4 greenhouse gas emitting facilities within 2.5 miles of
5 census block groups, the centers of those census block
6 groups, the more facilities that emit high levels of green
7 how gas emissions, the greater proportion of residents of
8 color, and residents who are living below 2 times the
9 federal poverty level, because the federal poverty level
10 in California is ridiculous, 2 times the federal poverty
11 level is still quite poor.

12 And there's basically about a 20 percent
13 difference. You know, 20 percent more people of color and
14 people of low socioeconomic status live in areas where
15 there are a lot of these facilities. They also point out
16 that facilities that are high greenhouse gas emitters are
17 also high particulate matter 10 micron -- PM10 emitters.

18 And again, these facilities that emit both high
19 greenhouse gases and a lot of PM10, are in poor and
20 minority areas of the State. There was actually a very
21 tight correlation.

22 Now, those of you who are sophisticated about air
23 pollution metrics would say why PM10, which is -- you
24 know, PM2.5, the fine particulate matter is more directly
25 related with a lot of health outcomes. Well, they -- I

1 actually directly queried the authors, and they said,
2 well, the PM10 data was much more complete than the PM2.5
3 data. And I'll come to that later.

4 So then can I have the next slide?

5 --o0o--

6 BOARD MEMBER BALMES: So this is what was eye
7 opening for me. You know, they are showing temporal
8 changes in the total emitter coverage greenhouse gas
9 emissions by industrial sector in this figure. And
10 basically, you can see that only a few sectors --
11 actually, only -- and this slide cogeneration is actually
12 going down much.

13 You know, there's -- I guess you'll see on the
14 next slide, you know, it's not terrible news in terms of
15 meeting our current requirements in terms of the cap, but
16 it's also a little sobering too about how much we might
17 need to do.

18 Could I have the next slide?

19 --o0o--

20 BOARD MEMBER BALMES: And then this is showing
21 the total allowance budget on the far left of the figure,
22 and that, you know, we're still under that. You know,
23 we're below the cap. Total emissions with a compliance
24 obligation are the emitters we're talking about here. The
25 stars for the first 2 years is when we required reporting,

1 but we're actually not requiring compliance. And you can
2 see there's basically been not a big change. And then
3 electricity imported is actually where we've got a big
4 positive impact. The authors suggest that we're going to
5 run out of bang for buck here with a -- in terms of clean
6 energy importation. And so we have to start focusing on
7 our big emitters here in the State.

8 Now, let me just say they conclude that - and I
9 think there's evidence to support this from other
10 studies - that we could get more public health impact from
11 greater reductions in emissions from these high-emitting
12 facilities, these facilities that emit both -- a lot of
13 greenhouse gas emissions, and a lot of other pollutants.

14 So they're -- they would conclude by saying that
15 while greenhouse gas emissions have been trending down
16 since 2001, in-State emissions have actually increased in
17 several sectors, and high-emitting facilities -- I don't
18 show any slides about this -- they also claim, based on
19 their analysis of the data that high-emitting facilities
20 are using offsets outside of California more than other
21 facilities.

22 And again, as I've already pointed out much of
23 the reduction in greenhouse gas emissions comes from
24 imported electricity that we've gotten that's cleaner.

25 They conclude -- actually, maybe one more slide,

1 I think

2 --o0o--

3 BOARD MEMBER BALMES: This is a schematic of how
4 they did their analysis. You know, and without going into
5 a lot of detail, they found facilities that were reported
6 emitter covered emissions on all 4 years that they looked
7 at. So any facility that only reported in 1 or 2 years
8 wouldn't be concluded here, 2011 to 2014, 353. Start with
9 narrowed down to 314.

10 They also looked at the PM10 emissions data from,
11 I don't know if you say Ceidars[see-ders} or
12 Ceidars[say-dars].

13 Ceidars[see-ders], yeah I figured as much -- that
14 they could link, you know, in terms of the same facilities
15 that were reported -- that we're reporting under our
16 mandatory greenhouse gas reporting system. And they had
17 to do a fair amount of work to link these facilities,
18 because the databases aren't compatible.

19 So as all researchers always want to say that
20 more easily accessible databases would be better, not just
21 for their own research, but so that California could track
22 co-pollutants -- reduction of co-pollutants as we
23 implemented our greenhouse gas reduction strategies.

24 They also wanted more publicly accessible data
25 that was facility specific. They had to sort of hunt

1 through again various sources to determine who was using
2 offsets and who wasn't, and et cetera.

3 So Chair Nichols asked me to just do a brief
4 summary. And I'm not going to engage in any kind of
5 personal reflection on this, but I do think that tracking
6 the co-benefits we get with regard to reduction of
7 co-pollutants has been something that I think everybody
8 who's been on the board with me for a while and staff
9 knows is close to my heart with regard to impacting public
10 health as we improve -- as we mitigate climate change.

11 CHAIR NICHOLS: Yes, we do. And it's a topic
12 that obviously requires a lot more study and information.
13 I thought the comments -- I did read the material that was
14 released last week. And I thought the comments about the
15 difficulties of accessing data were actually as
16 interesting in some ways as the results of the study, in
17 the sense that we really need -- we need it. And I'm
18 happy to say that that's an item that's actually addressed
19 in AB 197, which is helpful in terms of pushing that issue
20 forward.

21 Mr. Gioia.

22 BOARD MEMBER GIOIA: Yeah, just a comment. I
23 appreciate your presentation. And I think I had seen the
24 study, read it before, but it's good getting your brief
25 presentation. I just wanted to follow up on the last --

1 on page 11 sort of the -- some of the suggestions about
2 how to collect more data, because I think that could also
3 be useful for us at the local air district level. And I
4 may talk more about this later. We're looking at some
5 regulations in the Bay Area with regard to GHG caps. And
6 we're also looking at it from a co-benefit standpoint as
7 well.

8 So these recommendations about building better
9 Linkages between State facility level databases on GHG,
10 and co-pollutant emissions, tracking and making data
11 available on company and company-specific allowance
12 trading patterns, publicly releasing data on specific
13 allowance allocations. So especially this idea of
14 understanding the co-pollutant emissions associate -- that
15 could be decreased associate with GHG emission decreases.

16 So I just want to maybe ask the staff how do you
17 see going forward in trying to strengthen that data
18 linkage between co-pollutants and GHGs and making it
19 easier. What would you see as a way to make progress in
20 that area?

21 DEPUTY EXECUTIVE OFFICER CHANG: Thank you.

22 BOARD MEMBER GIOIA: Because they had to get to
23 it in a roundabout way in the study, and how would you see
24 our role in being able to -- in working with local air
25 districts be able to improve that.

1 DEPUTY EXECUTIVE OFFICER CHANG: Supervisor
2 Gioia, as the Chair mentioned, this is something that is
3 covered in SB 197.

4 BOARD MEMBER GIOIA: Right.

5 DEPUTY EXECUTIVE OFFICER CHANG: And SB 197
6 requires the Air Resources Board to make available
7 annually information about the greenhouse gas criteria
8 pollutant and air toxics emissions from major facilities,
9 and in a way that makes it more accessible for people. So
10 we do have a visualization tool right now that provides
11 greenhouse gas emissions, and we have been working with
12 the air districts on inserting criteria pollutant and
13 toxic emissions into that tool. So this is a graphical
14 tool, so you can see where all the facilities are relative
15 to any particular location that you're interested in.

16 So the challenge of matching up those 2 data sets
17 it is difficult. We have been working that too
18 internally. And so as we're implementing 197, and I think
19 we've got efforts that are happening even in advance of
20 197. So I think that we're going to be able to provide
21 better information both for the districts that will be
22 helpful, but also for the public.

23 BOARD MEMBER GIOIA: So what's the timing of when
24 you think we'll have sort of a meaningful expanded tool?

25 DEPUTY EXECUTIVE OFFICER CHANG: We're looking at

1 trying to get the criteria pollutant data in before the
2 end of this year, if we can. 197 basically says put the
3 criteria pollutant data and the greenhouse gas data
4 together. And then it asks us to include the toxics
5 information by the --

6 BOARD MEMBER GIOIA: Yeah, I was going to
7 say about -- all right.

8 DEPUTY EXECUTIVE OFFICER CHANG: -- by the end of
9 2017.

10 BOARD MEMBER GIOIA: So criteria pollutants at
11 the end of this year, toxic data by the end of next year.

12 DEPUTY EXECUTIVE OFFICER CHANG: Yes.

13 BOARD MEMBER GIOIA: Okay. Thanks.

14 CHAIR NICHOLS: At this point, I'm going to have
15 to throw a flag down on the topic, although it's going to
16 come up again, I know in connection with the other items
17 on the agenda.

18 But we need to take a break for the court
19 reporter. My question is is it smart to take lunch at the
20 same time or are we not ready to do that? I can do
21 either. Personally, I could either do this or wait till
22 the next item, which --

23 EXECUTIVE OFFICER COREY: Next item will run
24 about between staff presentation and testimony, 15 people
25 signed, it's about 45, 50 minute item.

1 CHAIR NICHOLS: Well, then why don't we just take
2 a short break.

3 EXECUTIVE OFFICER COREY: Sounds great.

4 CHAIR NICHOLS: It's like 10 minutes max. Okay.
5 Thank you.

6 (Off record: 12:12 p.m.)

7 (Thereupon a recess was taken.)

8 (On record: 12:30 p.m.)

9 CHAIR NICHOLS: As usual, my estimate of time was
10 a little bit too optimistic.

11 Okay. Ladies and gentlemen, we are ready now for
12 the public hearing to consider proposed amendments to the
13 regulation for mandatory reporting of greenhouse gas
14 emissions. This will be relatively short compared with
15 the others that we've got. But I'm going to ask people to
16 do 2 things.

17 First of all, I'm going to ask the Board members
18 to cut their lunch time short. We do have an executive
19 session at lunch, but I would like us to be able to eat
20 and talk in a half an hour. And secondly, I'm going to
21 ask everybody who's speaking on this and future items, and
22 I'll repeat this again to consider whether they could
23 shorten their time. I'm not going to mandate a shortened
24 time yet. But if you're thinking about your testimony and
25 working on it, or looking at it, if you can turn it into a

1 on 2 minute, that would be good.

2 Okay. So. This item is the first of 3 related
3 items that will be presented today. The other two are the
4 proposed amendments to the Cap-and-Trade Program, which is
5 certainly the one that's attracted the most attention, and
6 the State's draft compliance plan for the federal Clean
7 Power Plan.

8 The first item, the mandatory reporting
9 regulation, contains the requirements and methods for
10 reporting greenhouse gas emissions data. The data
11 collected represent the foundation of the Cap-and-Trade
12 Program, but they also provide emissions data to support
13 other Air Resources Board climate change programs,
14 including ARB's cost of implementation fee regulation, and
15 the statewide greenhouse gas inventory.

16 And as just noted, when Dr. Balmes did his
17 presentation, the data that the authors of the study used
18 were from that mandatory reporting requirement. And the
19 fact that we had such good data is what enabled us to
20 develop the scoping plan when we did.

21 So, Mr. Corey, would you please introduce this
22 item?

23 EXECUTIVE OFFICER COREY: Yes. Thanks Chair
24 Nichols. So the Global Warming Solutions Act of 2006, or
25 AB 32, created a comprehensive multi-year program to

1 reduce greenhouse gas emissions in California.

2 And one of the requirements of AB 32 was for ARB
3 to adopt a regulation for the mandatory reporting of
4 greenhouse gas emissions data. And in 2007, the Board
5 approved the regulation for the mandatory reporting of
6 greenhouse gas emissions, establishing the nation's first
7 mandatory reporting rule for greenhouse gas emissions
8 reporting.

9 The first facility reporting began in early 2009
10 for data collected in 2008. Now, we collect annual data
11 from over 775 entities. The Board has previously approved
12 amendments to report -- to the reporting regulation. And
13 since the last revisions in 2014, ARB staff has identified
14 additional clarifications to the regulatory requirements
15 needed to support the Cap-and-Trade Program.

16 Today, staff is proposing revisions that are
17 needed to ensure consistency with benchmarking, allocation
18 of allowances, and the calculation of compliance
19 obligations. The proposed modifications and
20 clarifications will ensure accurate and consistent data
21 are collected to fully support the Cap-and-Trade Program
22 and other ARB climate programs.

23 In addition, we've added provisions needed to
24 support the implementation of the U.S. EPA Clean Power
25 Plan requirements that we'll be hearing about later today.

1 Now, John Swanson from the Climate Change
2 Reporting Section will provide the staff presentation.

3 John.

4 (Thereupon an overhead presentation was
5 presented as follows.)

6 EXECUTIVE OFFICER COREY: January

7 AIR POLLUTION SPECIALIST SWANSON: Thank you, Mr.
8 Corey. Good afternoon, Chair Nichols, and members of the
9 Board. This Board item is to discuss staff's proposed
10 amendments to the regulation for the mandatory reporting
11 of greenhouse gas emissions.

12 --o0o--

13 AIR POLLUTION SPECIALIST SWANSON: I would like
14 to remind the Board that this is the first of two Board
15 hearings for this rule-making on the proposed mandatory
16 reporting regulation amendments. There's no Board action
17 on this item today. And the second Board hearing on these
18 amendments is currently scheduled for spring of 2017.

19 The amendments we are proposing today provide
20 updates necessary to ensure that reported data are
21 accurate, complete, and fully support ARB's climate
22 program. The proposed revisions were developed in
23 coordination with affected stakeholders, who provided
24 helpful comments to staff.

25 For today's presentation, we will provide some

1 background on the mandatory reporting program, summarize
2 the proposed amendments, describe areas where staff are
3 proposing 15-day changes based on stakeholder input, and
4 outline the next steps in the regulatory process.

5 --o0o--

6 AIR POLLUTION SPECIALIST SWANSON: Today, we are
7 presenting 3 interrelated items to the Board. First is
8 the mandatory reporting regulation, also known as MRR,
9 which collects greenhouse gas data and includes
10 verification requirements to support the California
11 Cap-and-Trade Program, the statewide emissions inventory,
12 as well as other ARB climate programs.

13 In the second item, staff will present proposed
14 amendments to the Cap-and-Trade Program regulation. And
15 in the final item, staff will present ARB's draft
16 compliance plan required to comply with the federal Clean
17 Power Plan, or CPP rule. All proposed changes or
18 regulatory updates are being closely coordinated for these
19 3 items.

20 --o0o--

21 AIR POLLUTION SPECIALIST SWANSON: The regulation
22 before you today is the 5th revision to the mandatory
23 reporting regulation, which was initially adopted by the
24 Board in 2007. This year, nearly 800 entities reported
25 under the mandatory reporting regulation to support the

1 various climate change programs at ARB. The reporting
2 entities subject to the regulation fall into 3 primary
3 categories.

4 First, we have stationary source facilities with
5 GHG emissions of more than 10,000 metric tons of carbon
6 dioxide equivalent, or CO2e, per year.

7 Next, electricity importers and retail providers
8 of electricity must report under the regulation. There is
9 no minimum reporting threshold for these entities.

10 In addition, fuel suppliers, including
11 transportation fuel and natural gas suppliers with
12 emissions over 10,000 metrics tons of CO2e are subject to
13 reporting.

14 To ensure the high quality and accuracy of
15 submitted data, all reporting entities that emit over
16 25,000 metrics tons of CO2e per year and are subject to
17 the Cap-and-Trade Program CO2e are required to have their
18 data fully verified by an ARB-accredited independent
19 third-party verification body.

20 --o0o--

21 AIR POLLUTION SPECIALIST SWANSON: The amendments
22 before you today are proposed to ensure that complete and
23 accurate data are used to support ARB's climate programs.
24 This slide provides a summary of the major changes, which
25 I will then explain in more detail in subsequent slides.

1 Staff is proposing a series of general updates to
2 the regulation based on experience with the program, and
3 stakeholder input to clarify and streamline the reporting
4 requirements and their implementation.

5 Also, we are proposing amendments to align the
6 reporting requirements with the proposed changes to the
7 Cap-and-Trade Regulation as needed for ongoing program
8 consistency.

9 We have also included clarification and updates
10 for the petroleum and natural gas production sector and
11 for fuel suppliers. We've also added a new section to the
12 regulation needed to implement the U.S. EPA Clean Power
13 Plan requirements, provided updates for electric power
14 entities or importers of electricity to California, and
15 have proposed moving the annual verification deadline up
16 by a month from September 1st to August 1st.

17 I will now walk through the proposed updates in
18 more detail.

19 --o0o--

20 AIR POLLUTION SPECIALIST SWANSON: Staff is
21 proposing several updates for accuracy, clarity, and
22 completeness. To reflect current science and to be
23 consistent with ARB's statewide greenhouse gas inventory
24 program, staff is proposing an update to the global
25 warming potential values used for calculations starting

1 with calendar year 2021 data reported in 2022. The
2 regulation would be moving from the second assessment
3 report of the Intergovernmental Panel on Climate Change to
4 the fourth assessment report.

5 Other changes include revisions to clarify and
6 modify the cessation criteria for reporting and
7 verification. Staff is also proposing to modify
8 applicability requirements for small oil and gas producers
9 to include flaring emissions.

10 We have also proposed an update to the point of
11 regulation for liquefied petroleum gas and liquefied
12 natural gas imported to California from the consignee to
13 the importer. This change is needed to fully account for
14 emissions from the combustion of fuels imported into
15 California.

16 Other updates are intended to clarify reporting
17 Applicability for reporters that are both fuel suppliers
18 and direct emitters, and the emissions sources that must
19 be reported for natural gas processing plants.

20 The majority of the amendments would take effect
21 for the 2018 data reported in 2019. However, some product
22 data reporting updates would take effect one year earlier
23 for 2017 data report in 2018 to support the allocation of
24 allowances under the Cap-and-Trade Program.

25 The proposed Clean Power Plan changes would take

1 effect for 2021 data reported in 2022, consistent with the
2 federally mandated compliance schedule.

3 --o0o--

4 AIR POLLUTION SPECIALIST SWANSON: The mandatory
5 reporting regulation provides critical emissions, product,
6 and other data needed for Cap-and-Trade Program
7 implementation. Therefore, with the proposed 2016
8 Cap-and-Trade Regulation amendments, we need to make
9 conforming updates to the reporting regulation for
10 consistency and to implement the Cap-and-Trade Program.

11 Specifically, the updates to align with the
12 Cap-and-Trade Regulation are necessary to support the
13 calculation of compliance obligations and allowance
14 allocations. We have proposed several minor changes
15 necessary to fully and accurately collect data used to
16 calculate this information.

17 Staff is proposing updates to definitions in the
18 reporting regulation to harmonize with the Cap-and-Trade
19 Regulation and to clarify and add product data reporting,
20 which is necessary for allowance allocation. For example,
21 we are proposing clarifications for refinery complexity
22 weighted barrel, or CWB, throughput, which includes
23 consolidation of product data reporting for refineries as
24 well as clarifications to hydrogen production reporting,
25 and clarifications to requirements for sectors such as

1 milk production, tomato products, poultry and others.

2 --o0o--

3 AIR POLLUTION SPECIALIST SWANSON: For the
4 petroleum and natural gas systems sector, staff is
5 proposing several minor modifications to clarify the
6 calculation of greenhouse gas emissions, including the
7 conversion of volumetric data to reflect standard
8 conditions, and to allow use of a default combustion
9 efficiency value when computing combustion emissions.

10 The proposed updates also replaced the existing
11 flash emissions test method with a revised method, which
12 is needed to improve data quality and provide consistency
13 with other ARB programs.

14 Finally, we have clarified that all
15 sorbent-related greenhouse gas emissions must be reported
16 by this sector.

17 Beginning with the 2015 data reported this year,
18 fuel suppliers now have a compliance obligation under the
19 Cap-and-Trade Program. We are proposing several changes to
20 support the Cap-and-Trade Program and to clarify the
21 requirements. For example, to address the potential
22 double reporting of fuel volumes, staff is proposing to
23 clarify the reporting requirements for transportation fuel
24 that passes through multiple racks prior to final
25 delivery, and remove the reporting requirement for

1 enterers and in-state producers of ethanol and biodiesel.

2 Also, to facilitate the verification process, and
3 better assure accurate reporting, staff is proposing to
4 add a new requirement to report the volume of
5 transportation fuel that is excluded from emissions
6 reporting and cap-and-trade obligations due to export out
7 of California, or use in either aviation or marine
8 applications.

9 Staff is also clarifying the reporting
10 requirements for intrastate pipeline suppliers, and
11 facilities that deliver or pass through natural gas to
12 other facilities, in order to avoid ambiguity in who is
13 required to report as an intrastate pipeline natural gas
14 supplier.

15 We've also included the option for local
16 distribution companies to report biomethane deliveries
17 that they deliver on behalf of another company to allow
18 these fuels to be removed from the deliverer's
19 cap-and-trade compliance obligation when specified
20 criteria are met.

21 --o0o--

22 AIR POLLUTION SPECIALIST SWANSON: Staff has
23 added a new subarticle to the mandatory reporting rule to
24 implement the collection of data to support the Clean
25 Power Plan requirements. For example, additional watt

1 meter and other data will be reported to ARB that is also
2 currently reported to EPA. And each electricity
3 generating unit must be separately reported.

4 Generally, most affected California power plants
5 already meet the Clean Power Plan reporting requirements
6 through compliance with the mandatory reporting regulation
7 and the proposed amendments will require minimal changes
8 to current reporting.

9 The proposed amendments to support the Clean
10 Power Plan would take effect for 2021 data reported in
11 2022, assuming the Clean Power Plan is upheld and there
12 are no changes to the existing EPA compliance schedule.

13 --o0o--

14 AIR POLLUTION SPECIALIST SWANSON: For electric
15 power entities, or importers of electricity to California,
16 staff is proposing several modifications to make the
17 reporting of electricity imports more complete, robust,
18 and transparent. We are clarifying the reporting
19 requirements for specified source imports to ensure
20 accurate emissions accounting.

21 Next, staff is proposing amendments to the
22 reporting requirements to address the incomplete reporting
23 of emissions associated with imported electricity
24 transfers within the energy imbalance market.

25 This is an area where we will continue to work

1 with stakeholders to ensure we accurately capture all
2 emissions associated with electricity load that serves
3 California.

4 On a related subject, we have also included a
5 proposal to include the California Independent System
6 Operator, or CAISO, as a reporting entity under MRR, to
7 track electricity imports data that is related to
8 transfers within the energy imbalance market. Timely,
9 accurate, and verified data is critical to support our GHG
10 inventory and Cap-and-Trade Program. Staff will continue
11 to coordinate with stakeholders to refine the proposed
12 amendments.

13 In addition, staff is proposing removal of the
14 provisions associated with the qualified export
15 adjustment, which is necessary to be consistent with the
16 Cap-and-Trade Program's treatment of these emissions. We
17 have also proposed amendments to clarify the requirements
18 for reporting sales into the CAISO for Cap-and-Trade
19 Program implementation purposes.

20 --o0o--

21 AIR POLLUTION SPECIALIST SWANSON: One critical
22 change we are proposing is moving the annual verification
23 deadline up from September 1st of each year to August 1st.
24 This change is necessary to better support the
25 implementation of the Cap-and-Trade program, including the

1 allocation of allowances by the annual November 1st
2 compliance deadline for entities subject to that program.

3 Currently, Reporting and Cap-and-Trade Program
4 staff only has a few weeks to fully perform quality
5 assurance of the verified data, and calculate compliance
6 obligations before ARB allocates allowances and assesses
7 compliance obligations for entities subject to the
8 Cap-and-Trade Program.

9 Currently, this truncates the time that staff
10 need to address any issues that may arise in the data, and
11 does not provide entities sufficient time to review their
12 allocations and compliance obligations to determine
13 whether they need to purchase additional compliance
14 instruments prior to November 1st.

15 Moving the verification deadline up by one month
16 will ensure staff has sufficient time to quality check the
17 data and to calculate and assess compliance obligations,
18 such that the cap-and-trade entities have ample time to
19 understand and meet their financial obligations under the
20 Cap-and-Trade Program.

21 We believe that the August 1st deadline can
22 successfully be attained by reporters and verifiers, if
23 they start early to choose and contract with the
24 verification body, begin the verification immediately
25 after the completed reports are submitted, and maintain

1 consistent engagement throughout the verification process.

2 Staff is working with stakeholders to identify
3 efficiencies that could be implemented by both ARB staff
4 and the reporting entities to ensure a more streamlined
5 reporting and verification process to support this
6 proposed deadline change.

7 --o0o--

8 AIR POLLUTION SPECIALIST SWANSON: To help
9 address some stakeholder concerns related to the change in
10 the verification deadline, staff is proposing adjustments
11 to timing requirements for verifier submittal of
12 documentation and ARB review of the materials to help
13 streamline the process.

14 Staff also is proposing minor changes to
15 streamline the accreditation process for verifiers.

16 --o0o--

17 AIR POLLUTION SPECIALIST SWANSON: Staff is
18 anticipating a few targeted 15-day revisions, which we
19 will address and release to the public as a regulatory
20 update package consistent with the Administrative
21 Procedures Act and in consultation with stakeholders.

22 We determined that a source category associated
23 with nitric acid production is not currently reportable
24 under MRR, so we intend to add these emissions to the
25 reporting requirements as part of applicability

1 provisions. For fuel suppliers, we will have minor
2 clarifications to the already proposed amendments to
3 changes in ownership and cessation requirements.

4 We are also expecting additional definition
5 changes as we work with Cap-and-Trade Program staff to
6 refine product data reporting requirements, which are used
7 to quantify allocations for industry sectors.

8 For verification, we plan to add additional
9 information regarding what should be included in the
10 verifier's issues log, which is used to document potential
11 problems identified during verification, and as discussed
12 earlier in this presentation, we will continue to engage
13 with stakeholders to streamline the verification process
14 in support of the proposed deadline change.

15 We also expect ongoing revisions as we work with
16 stakeholders to address incomplete reporting of imported
17 electricity emissions under the California Independent
18 System Operator Energy Imbalance Market.

19 --o0o--

20 AIR POLLUTION SPECIALIST SWANSON: This Board
21 item for mandatory reporting will be addressed through 2
22 Board meetings. Based on written comments received during
23 our initial comment period, testimony provided today, and
24 direction from the Board, pursuant to the Administrative
25 Procedures Act, staff will publicly notice and release

1 proposed 15-day changes for further comment.

2 Staff will then appear before the Board during
3 the spring of 2017 for a final determination on the
4 proposed amendments. If the updates are approved by the
5 Board, we will submit the full regulation package to the
6 Office of Administrative Law during the summer of 2017.

7 If approved, the regulation would become
8 effective on January 1st, 2018. Thank you for your time.
9 This concludes my presentation, and staff will be happy to
10 answer any questions you may have.

11 CHAIR NICHOLS: I think we can move directly to
12 the testimony on this. So people will please come forward
13 and be ready to speak when your time comes, we would
14 appreciate it.

15 And at the completion of this, I will be closing
16 the record, except for 15-day comments, so just be
17 prepared.

18 Come on down. Is Shelly Sullivan here?

19 Excuse me? Oh, the list was not up. Oh, sorry.
20 I was wondering why people were looking confused. I have
21 it right here.

22 (Laughter.)

23 CHAIR NICHOLS: Okay. Thank you.

24 MS. SULLIVAN: I'm sorry, I didn't see the list.
25 I'm Shelly Sullivan. I'm here on behalf of the

1 Climate Change Policy Coalition. We represent business
2 and taxpayer organization. And mainly, we just really
3 wanted to comment basically back to slide 12, upon review
4 of the MRR, we are opposed to changing the verification
5 deadline to August 1st. We believe that moving that
6 deadline is going to create a significant burden for both
7 reporting entities and verification bodies. So we
8 recommend leaving it at the current deadline. And if we
9 need to, maybe push back the cap-and-trade deadlines,
10 because they appear to be more flexible.

11 We did submit our written comments today as well.
12 And we stated there that if ARB does move the deadline, we
13 have some suggestions in those written comments that you
14 might want to consider, for example, providing incentives
15 for advanced reporting and verification, and then maybe
16 even recognition of good faith efforts by obligated
17 parties to provide timely compliance that is otherwise
18 compromised because of the deadline change.

19 Our other suggestions are -- we have about 4 or 5
20 other ones for your consideration, and I think other
21 people will probably cover that. So thank you for your
22 time.

23 CHAIR NICHOLS: Thank you.

24 MS. BERLIN: Good afternoon, Madam Chair, members
25 of the Board. My name is Susie Berlin and I'm

1 representing MSR Public Power, and the Northern California
2 Power Agency.

3 And just briefly on the MRR amendments, we echo
4 concerns with regard to the changed verification deadline.
5 We've been working through the timelines, and our folks
6 find it very difficult to envision being able to timely
7 meet the accelerated verification deadline. And that's
8 not just because of information that they're compiling,
9 but the need to work with other entities to receive
10 information, and then the ongoing work with the verifier
11 site visits and the like. That process just takes too
12 long, and they're very concerned with being able to
13 accelerate the entire process by one month.

14 And I know you're not taking any action today on
15 the actual regulations, but we appreciate hearing the
16 coordination with regard to the amendments that are going
17 to also impact the Cap-and-Trade Program, and
18 implementation of the Clean Power Plan. And we urge you
19 to ensure that stakeholders have sufficient time to review
20 both sets of regulations together. And with regard to the
21 proposed revisions that would restrict the ability to
22 utilize the cap-and-trade adjustment, and in our
23 estimation comply with the RPS program without added cost,
24 and changes that are aimed at addressing the concerns with
25 the EIM accounting.

1 We ask that those be completely held off until
2 after the substantive underlying issues have been reviewed
3 and assessed, and concluded in the context of the
4 Cap-and-Trade Program regulation, and then the MRR
5 amendments that would be necessary to affect those changes
6 be taken up.

7 Thank you.

8 CHAIR NICHOLS: Thank you.

9 MR. WINTERGREEN: Good afternoon, Chair Nichols,
10 and Board members. My name is Jay Wintergreen. I work
11 for First Environment. And we are an ARB-accredited
12 verification body for emission data reports, and have been
13 active in this area since 2009. As indicated in the staff
14 presentation, a proposed revision to the MRR is a change
15 to the verification deadline from September 1st to August
16 1st. This shortens the verification period by 20 percent
17 for facilities, and 33 percent for electric power
18 entities. And I just bring this up because it is a
19 material reduction in that verification period.

20 It's been our experience that it's not uncommon
21 for verification activities to extend into August and, in
22 some cases, right up to the current September 1st
23 deadline. And staff -- ARB staff presentations have
24 supported this trend towards the end. And in some cases,
25 and in many cases, these delays are outside of the control

1 of verification bodies. If the deadline is changed to an
2 August 1st deadline, as is currently proposed, we are
3 concerned that it will result in reduced quality of
4 reported data, an increased risk in reporters missing the
5 deadline and potential enforcement actions. And we feel
6 that this would be an unfortunate situation at a critical
7 point in the AB -- AB 32 program.

8 ARB staff have presented a need for the change in
9 this deadline, and we respect that argument for the need
10 for the change, and -- but if the August 1st deadline
11 revision is necessary, we request additional revisions to
12 the regulation to facilitate success at meeting the
13 shortened deadline. And we have submitted written
14 comments to ARB identifying proposed additional changes to
15 the regulation.

16 Thank you very much for the opportunity to
17 present these concerns.

18 MR. BENGTSSON: Good afternoon, Chair Nichols,
19 members of the Board. Nathan Bengtsson on behalf of PG&E.
20 Just 4 points for your consideration today, even though
21 the MRR can be really technical, these have to do mostly
22 with calendar, which I think we all understand.

23 I also just want to say really quickly that we
24 support the comments made by Susie Berlin regarding the
25 GHG AM issue, and the RPS adjustment issue.

1 So, for one thing, advancing the verification due
2 date by one month to August 1st will increase the risk of
3 noncompliance as you've just heard. Fifteen MRR reports
4 are required annually, and that covers hundreds, if not
5 thousands, of facilities, spanning from the Oregon border
6 to Arizona. Seven years of experience has shown us just
7 how meticulous and rigorous these checks are. It just
8 takes time.

9 And August 1st will be a very challenging
10 deadline to meet. We understand that staff are squeezed
11 too, but we respectfully ask that you direct staff to
12 reconsider this change and continue talking with us to
13 fine a workable date or otherwise workable solution.

14 Also on calendar items, staff have proposed
15 reducing the time limit to respond to data requests by
16 over 75 percent. That's from 20 days to 5 days. And this
17 unduly increases the risk of a violation resulting from
18 untimely responses. We suggest at least a 10-business day
19 response time be considered. Again, these things just
20 take time.

21 And then finally, we ask that ARB extend the time
22 the same verification body can provide services. Right
23 now it's 6 years. We hope that could be increased to 12
24 years. These services are in high demand. The people who
25 get to know our systems, that takes time too. The

1 turnover takes even more time.

2 And so especially with potential other AB 32
3 regulations requiring verification, like potentially LCFS,
4 we hope that you'll consider extending from 6 to 12 years.
5 ARB has a robust vetting program anyway, and this change
6 will not impact the integrity or success of the MRR
7 program.

8 Finally, I'll just say, we strongly support the
9 amendment to eliminate the risk of an adverse verification
10 as a result of reporting errors that are not linked with
11 covered emissions. This is going to allow us to focus on
12 the right things.

13 Thanks.

14 CHAIR NICHOLS: Thank you.

15 MR. ARITA: Madam Chair, members of the Board.
16 My name is Steven Arita with Chevron Corporation. I'll be
17 real quick for you too, because I know you're working to
18 get to lunch. I'd just like to support Ms. Sullivan's
19 comments in regards to pushing the verification date up to
20 a month. That is a big concern of ours. We have spent
21 many times with Rajinder, and Brieanne, and staff in going
22 through our concerns with this proposed change.

23 And, in fact, what we have done also is we did go
24 through a very detailed description of the process that we
25 go through and other members of our industry go through

1 during the verification process. So it is a long,
2 intensive process. And I think the bottom line is, and
3 I've said this before, on other revisions of the MRR
4 regulation, is that we all -- we both want accurate
5 information.

6 And even here we are today as we go forward with
7 other reports, it still takes time. It's still a process,
8 especially for those facilities that are larger
9 facilities. So we would request that staff consider the
10 other options that Ms. Sullivan referenced, one of which
11 was pushing the date back. It would allow, you know, both
12 time for staff to do what they need to do, which we
13 realize is very important, but also it preserves our
14 ability for the regulated community to provide an accurate
15 and -- a report so that it is accurate and it supports the
16 Cap-and-Trade Program.

17 One other option too that we would like to throw
18 out for consideration is -- among the options, is that
19 again recognizing what staff's needs are to ensure the --
20 they have the time to review and do the calculation for
21 the allocations of the program -- for the Cap-and-Trade
22 Program, one other option we had thrown out was what if we
23 were to look at splitting the time? What if we were to
24 settle on a date of August 15th as one option.

25 That way we would be able to at least address our

1 concerns. We would still be constrained. We'd still have
2 to meet the requirements obviously on a reduced time
3 frame, but it also gives staff some additional time as
4 well. So we would respectfully request that, you know,
5 Madam Chair, that you and the Board would consider that as
6 an alternative option, and as a compromise so that we can
7 both get the work that we need to do, get done in an
8 accurate way. And again, that's the point, we both want
9 accurate information.

10 CHAIR NICHOLS: So I just want to be clear though
11 that is a one-time problem with a change, whatever it is.
12 You're going to have a year -- a full year going forward,
13 whatever the date is that's chosen, right?

14 MR. ARITA: Yes. Well, that's how we understand,
15 but they change --

16 CHAIR NICHOLS: Okay. I just wanted to be sure.
17 So it's a transition problem as people say, but -- okay.
18 It's a -- I understand it's a problem. I'm just -- yeah,
19 okay. Thank you.

20 MR. ARITA: And we just think that would be a
21 very reasonable compromise that we would hope that you
22 would consider. Thank you.

23 CHAIR NICHOLS: Okay. Thank you.

24 MR. SPITZER: Good afternoon, Chair Nichols and
25 Board members. My name is Paul Spitzer from Avan Grid

1 Renewables. I will attempt to keep my comments simple and
2 brief, which is the opposite of the reporting process for
3 the CARB report.

4 (Laughter.)

5 MR. SPITZER: I'm the analyst at Avan Grid
6 Renewables tasked with overseeing producing the CARB
7 report in conjunction with a number of folks in our
8 office, as well as coordinating with a number of other
9 offices in order to make sure that everything is accurate,
10 complete and meets the requirements of the ARB.

11 We did everything in our power to engage our
12 verifier early. We had them in our office one week after
13 the -- our deadline for submitting the report, and we
14 still were working with our verifier on August 30 and 31st
15 in order to make sure that everything was correct in our
16 report.

17 I would echo the comments of previous folks here,
18 and I'm assuming folks who will speak after me, that the
19 August 1st deadline would pose a large hardship on those
20 producing the report, and runs the risk of errors, et
21 cetera, that could emerge from trying to rush through
22 things.

23 Thank you very much.

24 CHAIR NICHOLS: Thank you.

25 MR. SPITZER: And also, this is not a

1 transitional problem. It would happen every year, just
2 because of having to coordinate amongst the renewable
3 energy credits and other counterparties, et cetera. So I
4 don't feel it's a issue of transition.

5 CHAIR NICHOLS: Okay.

6 MS. ROBERTS: Chair Nichols and members of the
7 Board. My name is Tiffany Roberts from Western States
8 Petroleum Association. We really appreciate the
9 opportunity to comment today. And for the past year WSPA
10 and WSPA-member companies have worked extensively with ARB
11 staff and management in the development of the MRR
12 amendments. And WSPA really appreciates staff's
13 engagement on that.

14 We do have some outstanding concerns. We would
15 echo the concern that I think you've heard today about the
16 verification deadline. We've provided staff with a
17 detailed timeline that demonstrates that every month and
18 nearly every week between January and September is spent
19 organizing, scheduling, presenting, and working through
20 the inevitable iterative process with both verifiers and
21 ARB.

22 And this iterative and robust process is critical
23 to successful verification for complex facilities such as
24 refineries and oil and gas production. We would echo the
25 comments from Mr. Arita from Chevron in saying that as an

1 alternative, we would propose a compromise of August 15th
2 or we would ask the Board to direct staff to maintain the
3 current verification deadline of September 1st.

4 Let me turn to a couple of other more technical
5 items. Another concern for us is the material
6 misstatement requirements. As it's currently drafted, the
7 proposed amendment would double the potential for material
8 misstatement violation at the field level, where both
9 thermal and non-thermal barrels are produced. It makes
10 each category of barrel, thermal and non-thermal, subject
11 to a separate potential material misstatement, rather than
12 a single misstatement for the entire field.

13 And although ARB staff has stated its intent to
14 regulate all industries based on a common unit of measure,
15 a more stringent standard is being proposed here for the
16 oil and gas industry putting owners of split fields, the
17 thermal and non-thermal fields, at an arbitrary
18 disadvantage.

19 Lastly, and if I've got time here, in general,
20 WSPA recommends that ARB be consistent in its use of
21 deadlines by using quote unquote working days instead of
22 calendar days. Currently, there's a mix of both of those
23 terms, and there's been concern from ARB staff that
24 working days may not be a term consistently interpreted by
25 reporters and verification bodies. That can simply be

1 resolved with the definition. And so the definition for
2 working days would be defined as days of the week,
3 excluding weekends and national and State holidays.

4 Thank you.

5 CHAIR NICHOLS: Thank you.

6 MR. TUTT: Good afternoon, Chair Nichols, members
7 of the Board. My name is Timothy Tutt, and I'm
8 representing the Sacramento Municipal Utility District
9 here this afternoon.

10 I want to echo the previous comments about moving
11 the verification deadline up by one month. It's not
12 really a transitional issue, because it's a calendar year
13 reporting period. We're supposed to get data up through
14 December 31st. That data doesn't come on December 31st.
15 For electric power importing, it often doesn't come until
16 April, May, even June before we can actually give it to a
17 verifier to verify. So there's very little time in the
18 remaining period after the date is in to get this done.
19 It's not transitional in my mind.

20 And then I'd also like to say that maybe some
21 compromise date would be important or reasonable. Just
22 don't choose August 6th, because that's my anniversary, I
23 don't want that messed up.

24 (Laughter.)

25 MR. TUTT: Secondly, another concern that we have

1 is the expansion of the lesser-of analysis to contracts
2 that are currently grandfathered under the RPS. In the
3 RPS program, a lesser-of analysis is required for some
4 contracts the MRR as it stood last year before the
5 proposed amendments was consistent with that. The
6 expansion makes it inconsistent with that. And it's our
7 position that you should have more consistency with the
8 RPS and not less. It's going to be inefficient to require
9 entities to do a particular kind of analysis under one
10 program, and not have it under another program.

11 Thank you very much.

12 MS. PARSONS: Good afternoon Madam Chair and
13 members of the Board. Cindy Parsons representing the Los
14 Angeles Department of Water and Power. So verification
15 deadline, we're on a role, same concerns. It is not a
16 transitional issue.

17 Basically, what -- what's happening is that each
18 year the reporting requirements get more and more
19 complicated, and -- which requires a more thorough
20 verification. And so you're taking a more complicated
21 report and trying to compress the verification into a
22 shorter time period.

23 And one of the issues for us is an electric power
24 entity, as Tim mentioned, you don't get the data until
25 June. And so you really only have two months if the

1 August 1st deadline is approved.

2 So we actually do request that you either leave
3 it at September 1st or consider doing a bifurcated
4 deadline where you have an earlier deadline for some of
5 the simpler facilities -- not the complicated facilities,
6 but the simpler ones. And that would give staff at least
7 some data, so that they could start doing their work, and
8 then leave September 1st as the deadline for the more
9 complicated facilities and the entity reports. That seems
10 like striking a balance between the needs of staff and the
11 needs of the reporters and the verifiers.

12 In follow up to what Susie said, there are some
13 outstanding issues related to the RPS adjustment. Some of
14 the proposed amendments to the MRR are directly related to
15 that issue. And given that it is unresolved, that we
16 would ask you to hold off on any amendments related to the
17 RPS adjustment, specifically the Sections are 95105(d)(6),
18 95111(a)(4), and 95111(g)(1)(M)(3). Those amendments are
19 premature, and should not be adopted until this issue has
20 been resolved.

21 And lastly, the lesser of analysis is also a
22 concern for us. Those -- the grandfathered RPS contracts
23 were exempt for a reason. And it's because you don't have
24 the contractual right to the meter data that you would
25 need to do that lesser-of analysis. And so it's really

1 unfair for staff to impose a requirement when you may not
2 be able to have the data to be able to perform that
3 requirement.

4 And if you can't perform the requirement, then
5 you get a non-conformance and a qualified positive
6 verification statement. And so it's just -- the
7 requirement should be feasible. And it's just not -- it's
8 not a good idea to impose that on grandfathered RPS
9 contracts.

10 Thank you.

11 CHAIR NICHOLS: Todd Shuman?

12 Mr. Shuman?

13 Sean Neal.

14 MR. NEAL: Thank you Madam Chair and Board. My
15 name is Sean Neal. I'm here on behalf of the Modesto
16 Irrigation District, or MID.

17 MID similarly opposes -- has concerns with the
18 change in the verification deadline proposed from
19 September 1 to August 1st. MID faces similar challenges
20 of facing a rigorous schedule of site visits and data
21 review.

22 While MID finds -- you know, strives to -- for
23 timely completion of this report, it finds it is often
24 completing the report with, you know, just a few days
25 before the deadline. MID is -- while staff has raised

1 the -- described how the Clean Power Plan requirements are
2 similar and synch up with the reporting requirements, MID
3 is concerned and fears that that will not end up being the
4 case in actuality, and such that the change -- that the
5 existing verification deadline would give adequate time to
6 account for both.

7 And similarly to other commenters, we do not
8 believe it's a transitional issue. One report and data
9 input, the electric power entity emissions report,
10 issued -- due June 1st every year creates this as a
11 continuing issue, and -- rather than a transitional issue.

12 I thank you for your time.

13 CHAIR NICHOLS: Hi.

14 MR. LARREA: Good afternoon, Board members. John
15 Larrea with the California League of Food Processors,
16 continuing along the line of verification date changes.
17 As you know, the food processors, their seasons are about
18 90 days. They run from July through September. So this
19 verification change is kind of like taking those --
20 pushing us out of the smoke-filled room and into the fire
21 room.

22 So we are really looking for -- you know, in the
23 end, I've made the suggestion before, and I think it's
24 still valid is that if you could incentivize some of this,
25 you might find that you'd find a lot of the smaller

1 companies that don't require as much verification moving
2 much quicker. So I call it kind of like the early-bird
3 registration. You know, you get a little bit off, if you
4 register early.

5 So if you set like an incentive date of June 1st,
6 companies like ours could probably get this done, and get
7 it verified, and signed off by CARB well before that. And
8 as part of the incentive, they'd get their allowances
9 early, as opposed to waiting for the entire thing to
10 happen.

11 It would also help the verifiers, because they'd
12 be able to identify those companies are willing to move
13 very, very quickly and allow them to maybe associate
14 better timing with it, so that they could, you know, not
15 be so rushed at the very end, because I suspect that for
16 most of the companies like ours, you know, the more
17 complex ones they start off on January 1st, and they take
18 up all the time, and then we get left at the end, because
19 they've got to be able to deal with those more complex
20 issues. And so then it's a big rush for us, and it's
21 right in the middle of our season.

22 So I'd -- you know, please take a look at policy
23 incentivizing this. I'd appreciate that.

24 Thank you.

25 CHAIR NICHOLS: Thank you.

1 MS. TAHERI: Good afternoon, Chair and Board
2 Members. Sarah Taheri with the Southern California Public
3 Power Authority, or SCAPA.

4 SCAPA is a joint powers authority that is
5 comprised of 12 public power members, including the
6 largest municipal utility and the largest irrigation
7 district in the nation.

8 Today, I simply want to echo comments from
9 several parties regarding the one month shift of the
10 verification reporting deadline. This is problematic for
11 several of our members, and so we simply request that the
12 Board work with staff to consider other options or keep
13 the existing deadline of September 1st.

14 With that, thank for your time and consideration.

15 MS. HUGHES: Good afternoon, Chair and Board. My
16 name is Kathleen Hughes from Silicon Valley Power.
17 There's a lot of echoes in here, so I'll be very brief.

18 I'm echoing just about everybody else's concern
19 about the movement of the MRR deadline up. We do our
20 best. We work with our verifiers ahead of time. There's
21 a lot of back and forth, and a lot of detail that goes
22 into it, and we want to make sure that our report is
23 complete and accurate.

24 And we believe we deliver that accurate product,
25 but it takes the time. The other important part that we

1 have to address is what Cindy Parsons mentioned and
2 I'll -- another echo, is about the lesser-than analysis,
3 and implications on the RPS adjustment, the RPS Program
4 and how it's disjointed. And we really need to have
5 things be more congruent with all policies in California.
6 Thank you.

7 CHAIR NICHOLS: Thank you.

8 MR. BIERING: Good afternoon, Chairman Nichols
9 members of the Board. I'm on behalf of Turlock Irrigation
10 District. I, first, want to point off -- point out that I
11 think, as you know, the electricity sector is extremely
12 complex and dynamic. And I want to commend the ARB staff
13 for working with the electricity sector to address the
14 complexities and the involving nature of the MRR.

15 As a reporting entity, I mean, one of TID's
16 primary goals is to make sure that its report is in
17 compliance, is complete, is accurate, and can be verified.
18 We also have to balance our reporting requirements against
19 requirements that we have in other regulations,
20 specifically the RPS.

21 Now, you've heard from a number of other people
22 that some of the changes in the MRR that are being
23 proposed will create inconsistencies with the RPS program,
24 specifically the lesser-of meter data comparison. We'll
25 echo that. That will create an inconsistency with how

1 grandfathered resources are verified under the RPS
2 program.

3 And the specified source import issue, it is more
4 than just a clarification. It is a fundamental shift in
5 policy. Right now, there is a requirement in the MRR for
6 specified importers to report REC serial numbers. And
7 that requirement has not been verified.

8 And what these changes would do is they would
9 remove that REC serial number reporting requirement. And
10 they would basically allow an entity that has not
11 purchased the green attributes from a out-of-state
12 resource to claim the green attributes of that resource.

13 That creates an inconsistency with the RPS
14 program. And it undermines the value that California's
15 ratepayers have paid for out-of-state RPS energy. So we
16 would ask that, you know, you not just reconsider it and
17 evaluate this in the context of the cap and trade, but
18 really look at it in the context of its own issue under
19 the MRR.

20 Thank you.

21 MR. SKVARLA: Hello. My name is Mik Skvarla.
22 I'm here on behalf of the California Council for
23 Environmental and Economic Balance, or CCEEB.

24 I want to echo the comments by most of the
25 compliance entities and organizations representing

1 compliance entities today with regards to the deadline.
2 At this point, the MRR rule moving forward adds
3 complexity. This complexity adds time.

4 Moving that deadline back and taking that month
5 away is going to create an additional compliance risk for
6 a number of organizations. We'd like to offer our
7 assistance working with ARB staff moving forward. At this
8 point, even in the workshops prior to this, I don't
9 believe any compliance entity has supported this deadline
10 change. And we think that perhaps it should be
11 workshopped moving forward, and we can come to some sort
12 of compromise that works for all parties involved.

13 Additionally, we'd like to request that the
14 relationship time limits with the verifiers be extended
15 beyond that 6 years. It takes while to learn these
16 facilities. The complex -- especially the larger and more
17 complex facilities. By extending that timeline, we might
18 be able to get some additional efficiencies in how these
19 reports are performed and turned in.

20 So appreciate your time. Thank you.

21 MR. GRIFFITHS: Good afternoon, Chair Nichols and
22 members of the Board. My name is Dan Griffiths from the
23 California Municipal Utilities Association, CMUA is a
24 statewide organization of local public agencies in
25 California that provide electricity, gas, and water

1 service to California customers.

2 As with past speakers, we ask that the ARB not
3 change the verification deadline from September 1st to
4 August 1st, which would further strain efforts to complete
5 the verification process by the allotted deadline.

6 We also recommend that the ARB continue to
7 encourage and develop a large pool of accredited
8 verifiers, which could reduce challenges in meeting
9 verification deadlines. Thank for your time.

10 CHAIR NICHOLS: Thank you.

11 Todd Campbell.

12 MR. CAMPBELL: Madam Chair and members of the
13 Board, Todd Campbell, representing Clean Energy. And I
14 apologize for the late add. I didn't realize that this
15 was an issue that we needed to formally testify on.

16 But we wanted to commend the ARB's
17 acknowledgement and proposal to address the unintended
18 competitive advantage that the MMR -- or MRR currently
19 gives to imported LNG vehicle fuels versus California
20 produced LNG.

21 However, we are concerned that there is a
22 potential loophole in the proposed regulation. Changing
23 the regulated party from the California consignee to the
24 importer of LNG does, in theory, level the playing field,
25 assuming that out-of-state LNG producers continue to act

1 as the importers of the fuel to California.

2 However, in order to avoid potential MRR
3 compliance costs, an out-of-state LNG producer could
4 conceivably contract away their liability by simply
5 transferring title to the LNG customer at an out-of-state
6 LNG plant where shipments are picked up, or contracting
7 through a third-party logistics firm to accept title and
8 risk of loss to the LNG out-of-state plant as an act -- as
9 the importer.

10 As long as the customer or logistics firm does
11 not import and consume enough fuel in the aggregate to
12 trigger a reporting obligation under MRR, and/or a
13 compliance obligation under the cap and trade, then the
14 LNG shipments would presumably continue to have
15 competitive advantages versus LNG produced in California
16 that does carry such a compliance obligation and cost.

17 Therefore, we would urge that the ARB consider
18 amending the proposed regulation, so that an LNG producer
19 that produces LNG vehicle fuel that is exported into
20 California, so it's subject to the MRR and cap and trade
21 with respect to those LNG exports, regardless of the
22 entity that holds the title to the product at the time it
23 crosses the California State line.

24 Potentially, this could be achieved by modifying
25 the definition of importer with respect to the LNG imports

1 to state that, "In the event that the importer does not
2 otherwise trigger MRR or cap and trade with respect to the
3 LNG volumes imported due to their small size, that the
4 producer of that LNG will be considered the importer for
5 the purpose of MRR and cap and trade.

6 And then for the purposes of time, we have one
7 other issue with the eligibility requirements for the
8 biomass -- biomass derived fuels. The eligibility
9 requirements under Section 95852.1.1 for biomass derived
10 fuels continue to apply only to biogas and biomethane,
11 among all biofuels.

12 And we think if resource shuffling is to be
13 applied at all under this regulation, it should be applied
14 to all biomass fuels, not just biogas.

15 Thank you.

16 CHAIR NICHOLS: Okay. That concludes the list of
17 witnesses that I had, so I think we can close the record
18 at this point, and bring this back to the Board for any
19 discussion. We appear to have not attracted a lot of
20 support for the change in the date.

21 (Laughter.)

22 CHAIR NICHOLS: So not that that's the only
23 criteria, but --

24 (Laughter.)

25 CHAIR NICHOLS: -- I am concerned that there just

1 seems to be a wall of opposition here. So staff have any
2 inclination to throw out a life-line here or --

3 (Laughter.)

4 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

5 SAHOTA: I'm going to try and throw out a lifeline here.

6 So the proposal to change the verification
7 deadline should be put into some context. So if you're
8 reporting from January 1, 2015 -- or collecting data from
9 January 1, 2015 until December 31st, 2015, that's 12
10 months of data. You have 4 or 5 months to actually report
11 that data to ARB, and then you have a total of 9 months to
12 September 1st -- actually, that's 8 months -- 8 months to
13 get that information verified.

14 And so that's a total of 8 months to get your
15 data reported and verified after you're done actually
16 collecting that data for the previous year.

17 In contrast, Quebec gives their reporters until
18 July 1 to not only report their data, verify their data,
19 and then be prepared to surrender their compliance
20 instruments to their Cap-and-Trade Program. So we're not
21 asking for something that we think is unreasonable. This
22 is already being done in practice in one of our linked
23 jurisdiction partner jurisdictions.

24 The question --

25 CHAIR NICHOLS: Is that the motivation for doing

1 this -- making this change?

2 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

3 SAHOTA: No. The motivation is that at the end of the
4 verification deadline on September 1, staff spends about 5
5 weeks reviewing that data, doing some QC/QA checks across
6 the system, looking at reports and data among entities
7 because they do have some types of relationships when
8 they're talking about imports and trading of electricity
9 between some entities.

10 When that happens, we identify issues and we have
11 to go back to the reporters. The reporters have to revise
12 their reports and get them verified again.

13 So now you're into some point in October, where
14 we have the final reported data. Once we're in October,
15 we have to allocate millions of dollars of allowances on
16 that data. And we also have to put the compliance
17 obligations into the cap-and-trade tracking system.
18 That's probably the third week of October. And the
19 complete compliance for cap and trade is due on November
20 1.

21 We literally had to help people scramble 2 days
22 before the November 1 deadline to get their reports
23 verified and fixed, so that they were not incurring
24 millions of dollars of compliance obligation. And so we
25 managed to do that by scrambling at the last minute. But

1 we want to try and avoid that by working earlier with
2 reporters to make sure we get their data early, we review
3 it across the system, and make sure that all the data is
4 correct, and they have ample time to comply with cap and
5 trade, instead of trying to ask us is your system
6 available on Saturday and Sunday in case we get our
7 instruments and we're able to comply by the deadline?

8 So we have these issues that are going on on the
9 back-end that we're really trying to address.

10 CHAIR NICHOLS: Okay. I'm -- any other questions
11 from any Board -- yes, Mr. Serna.

12 BOARD MEMBER SERNA: Thank you, Chair. So you
13 opened Rajinder with a reference to Quebec. Is there any
14 substantive difference though between their -- the whole
15 pool of protocols affecting their reporting versus ours?
16 If we're going to compare apples to apples, I'd like to
17 know that.

18 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
19 SAHOTA: Sure. So Quebec's reporting program is very
20 similar to California's reporting program. We all started
21 out with a basic design document about how reporting
22 requirements had to be done, if we were going to link our
23 programs. So the type of information is essentially the
24 same.

25 So it's not that they have a simpler reporting

1 process, it's essentially the same. They have less
2 reporters --

3 BOARD MEMBER SERNA: I was going to say, is it a
4 volume issue?

5 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
6 SAHOTA: Right. So they have less reporters, and they
7 have verifiers in Canada, but we also feel like we have
8 sufficient -- a sufficient ratio of verifiers to reporters
9 similar to what they have in Quebec.

10 And so I think when we're talking about it here,
11 it's really looking at some of the data that we had before
12 we proposed the change. And in looking at the data that
13 we had for the last few years, we realized that after the
14 reporting deadline, there's literally a lag in the summer
15 before there's any action on verification.

16 And so when we proposed that 4 week change, we're
17 really basing it on historical data that we've collected
18 about who's doing what after reporting to actually begin
19 and get through the verification process. And there seems
20 to be some space in there based on the data that we have.

21 CHAIR NICHOLS: Mrs. Riordan.

22 BOARD MEMBER RIORDAN: Yes. I had a question
23 about the offer or the thought of requesting those
24 facilities that have perhaps not as complicated a system
25 to go first, and then those who perhaps legitimately,

1 because they have to get, you know, a very complicated
2 system analyzed, giving them a little bit longer? Is
3 there any opportunity there to work a compromise?

4 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

5 SAHOTA: So we -- when we workshopped this, the suggestion
6 came up, but everybody wanted to be in the more
7 complicated category.

8 (Laughter.)

9 BOARD MEMBER RIORDAN: In the last category.

10 (Laughter.)

11 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

12 SAHOTA: And so if the stakeholders would like to prepare
13 a proposal about what this looks like, and how this helps,
14 we're definitely open to it. But it was clear when we had
15 the workshop that everyone felt like they were the more
16 complex.

17 BOARD MEMBER RIORDAN: Complicated.

18 (Laughter.)

19 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

20 SAHOTA: Yes.

21 BOARD MEMBER RIORDAN: Okay. But you would be
22 open to hearing --

23 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

24 SAHOTA: That's right.

25 BOARD MEMBER RIORDAN: Okay.

INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

1 SAHOTA: That's right. And the other thing I wanted to
2 note is that it wasn't until the workshop where staff
3 proposed the change, that we started hearing concerns
4 about enough verifiers or having enough time with our
5 verifiers. And it was only after that time, we started
6 hearing, well, you can't move the deadline, because we
7 have all these issues in verification. And so we want to
8 understand what those issues are before we make a final
9 recommendation for the date.
10

11 We just only heard about it after we did the
12 proposal that there are going to be issues for folks. In
13 terms of the verification pool, like I said, we have about
14 50 verifications bodies, we have about 200 accredited
15 verifiers to work on this process. And, you know, we
16 feel -- we felt comfortable with the ratio and the data
17 that we had to make this proposal, but we're -- we're open
18 to talking about what those concerns are, and maybe there
19 are things we can do on our side to alleviate some of
20 those concerns.

21 CHAIR NICHOLS: What's next in the process here?
22 I'm sorry, for your purposes. No, I mean, what do we need
23 to do with this item? Sorry.

24 EXECUTIVE OFFICER COREY: Process-wise, what
25 Rajinder was suggesting was as part of the follow-on with

1 the stakeholders, is there some sort of compromise
2 position?

3 CHAIR NICHOLS: Yes.

4 EXECUTIVE OFFICER COREY: Does that compromise
5 position get worked through a 15-day change or is it
6 something outside a 15-day change? So I think we're
7 hearing the issue, the concern. And I think it's -- the
8 commitment is a follow-on discussion with the stakeholders
9 to try and find a middle ground on this thing.

10 CHAIR NICHOLS: Okay. So you go off and then you
11 work on 15-day changes?

12 EXECUTIVE OFFICER COREY: Yeah, if that -- my
13 sense is that's probably how a compromised is expressed.
14 But I think the first question is what are our compromise
15 options and are they regulatory? The regulatory is a
16 15-day change that we'd work on.

17 CHAIR NICHOLS: Right. And if not, they're just
18 implementation?

19 EXECUTIVE OFFICER COREY: Yes.

20 CHAIR NICHOLS: Okay. So do you need further
21 direction from us then at this time?

22 EXECUTIVE OFFICER COREY: I'm understanding the
23 direction here.

24 (Laughter.)

25 EXECUTIVE OFFICER COREY: Seek out a compromise

1 position.

2 CHAIR NICHOLS: Okay. All right. Well then, in
3 that case --

4 BOARD MEMBER MITCHELL: Madam Chair.

5 CHAIR NICHOLS: -- I think we're going to break
6 for our lunch.

7 BOARD MEMBER MITCHELL: Madam Chair, may I make a
8 comment, please?

9 CHAIR NICHOLS: Yes. Oh, sorry.

10 BOARD MEMBER MITCHELL: Thank you.

11 One of the things that we've heard about here
12 today, and, you know, from our constituents in our
13 district, is this concern about RPS and double-counting,
14 and how you credit the renewable energy credit, the source
15 of that and connecting the source of the renewable energy
16 with the credit.

17 And I think that your presenter said you were
18 going to keep working on that with some additional
19 workshops, because I think that needs a little bit more
20 work. There's a lot of controversy about how that is
21 done, and what your changes are actually advocating.

22 And from my district, I've heard from people who
23 have said that would increase their cost considerably.
24 And so I think that really does need to have another look
25 as well. Thank you.

1 VICE CHAIR BERG: So just from a process
2 perspective, I can understand -- so that I understand that
3 what is being presented today is the actual rule, and that
4 anything that goes forward would be a 15-day change
5 between now and the time you come back to the Board?

6 DEPUTY EXECUTIVE OFFICER CHANG: (Nods head.)

7 VICE CHAIR BERG: And then when you come back to
8 the Board, it's preferable for an up or down vote, because
9 if we get another 15-day change, that triggers more time,
10 and then we might miss the deadline to be able to
11 implement this rule, is that correct?

12 EXECUTIVE OFFICER COREY: That's correct.

13 VICE CHAIR BERG: Thank you.

14 CHAIR NICHOLS: All right. Yes, one more
15 question here.

16 BOARD MEMBER SHERRIFFS: And we also heard
17 concerns about the relationship limits. And I get those
18 on a personal level. And also on a business level, you
19 know, you get attached to your accountant, and they
20 understand what's going on. You get attached to your
21 doctor.

22 (Laughter.)

23 BOARD MEMBER SHERRIFFS: So I want to -- I want
24 to be sure we've thought about why we put the limits in
25 place and other ways to potentially satisfy those

1 concerns.

2 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

3 SAHOTA: So, Dr. Sherriffs, to the limit question itself,
4 a lot of the conflict of interest limits in the regulation
5 are based on Sarbanes-Oxley federal regulations in
6 response to the Enron issues. And so it's out of the
7 financial auditing world where we transferred those
8 relationship limits into this world, because it is a
9 market program.

10 CHAIR NICHOLS: Okay. All right. No further
11 questions or comments.

12 Well, I do think we need a half hour
13 realistically to just get food and have the briefing. Can
14 we get back at 2:15 really promptly sharply at 2:15?
15 Okay. Let's do it.

16 BOARD MEMBER TAKVORIAN: Madam chair, I'm sorry.

17 CHAIR NICHOLS: Oh, you did. Are you serious?

18 BOARD MEMBER TAKVORIAN: Can I just -- I'm sorry,
19 because I know you're giving that direction, but I just
20 want --

21 CHAIR NICHOLS: I haven't. I'm still open to
22 change.

23 BOARD MEMBER TAKVORIAN: Okay. I was just
24 wondering. I mean, there's so many people here, and I
25 wondered if we could do the closed session at the end, so

1 that -- and some of us grabbed food.

2 CHAIR NICHOLS: Oh, that's a very good point.

3 Actually, that's a very good point.

4 BOARD MEMBER TAKVORIAN: And so maybe we could
5 keep going.

6 CHAIR NICHOLS: Actually that's a very -- that's
7 a thoughtful consideration which I had not made. I
8 assumed we would do it at lunch.

9 BOARD MEMBER GIOIA: Some could be allowed to eat
10 up here, right?

11 CHAIR NICHOLS: I don't think it's nice to just
12 sit here and eat food. I personally always object when I
13 see that happening at meetings. But if you want to -- can
14 we move the closed session to the end despite having
15 noticed it?

16 Yes, we could. All right. Are people willing to
17 do that then?

18 It's going to make everybody really cheerful
19 and -- no, it will be good. It's better. All right.
20 Then let's come back at 2:00 o'clock promptly. And with
21 apologies to our visitors, but we did have a scheduled
22 lunch break. So we're just going to make it very short
23 instead of an hour. And we will be back and will resuming
24 the meeting at 2:00.

25 Thanks, Ms. Takvorian. That was a good

1 suggestion.

2 (Off record: 1:36 p.m.)

3 (Thereupon a lunch break was taken.)

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1 A F T E R N O O N S E S S I O N

2 (On record: 2:02 p.m.)

3 CHAIR NICHOLS: Good afternoon again.

4 And let's resume our meeting here. Several
5 members are making their way back to dais. But even when
6 people are in the back, they can actually hear what's
7 going on. So the next item on today's agenda is the
8 proposed amendment to the Cap-and-Trade Regulation. This
9 is the second of 3 related items to be presented today.
10 The first one we just heard, which was the monitoring and
11 reporting rule.

12 And this is the first of two Board meetings on
13 these amendments, so the Board will not be taking any
14 action today. There will be no vote on any of item today.

15 The amendments before us are designed to improve
16 the Cap-and-Trade Program to assure its effectiveness in
17 achieving meaningful greenhouse gas reduction in the
18 future Today is a start to this important conversation.

19 But I think it's also useful to keep in mind why
20 we're acting at all, why we're having this discussion
21 about climate? And to point out that we are dealing with
22 a global problem, which is increasingly evidenced in terms
23 of rising temperatures and other dramatic physical changes
24 including a historic drought.

25 It's also important to recognize that California

1 is looked to globally as a success story for reducing air
2 pollution while achieving robust economic growth. And so
3 it's in that context that our staff is laying out a idea
4 of what a post-2020 Cap-and-Trade Program would look like.

5 In particular, the Cap-and-Trade Program has been
6 a critical element of a comprehensive set of programs
7 outlined in the 2008 scoping plan to help California reach
8 its 2020 greenhouse gas emissions target and to create an
9 ongoing framework for action to cut emissions beyond 2020.

10 While carrying out this program in its early
11 years, the staff has continued to meet and work with
12 stakeholders to ensure that the program is implemented
13 effectively, while also sharing lessons that have been
14 learned with other jurisdictions that are considering the
15 possibility of using cap and trade as a option for
16 achieving climate change mitigation.

17 So the program has established itself as a
18 mechanism -- as a viable mechanism for reducing greenhouse
19 gas emissions. But it's only one part of a suite of
20 programs, including mainly direct regulations, which are
21 delivering greenhouse gas emissions reductions to meet the
22 2020 target. And it can continue to play an important
23 role in achieving our State's mid- and long-term climate
24 goals.

25 In addition, the Cap-and-Trade Program continues

1 to inspire climate action beyond California, as we have
2 already seen with our linkage with the Quebec, and we are
3 in the early stages of linking our program with a very
4 similar one in Ontario.

5 And I do want to say one other thing at the
6 beginning of this session, which again we're not taking
7 action today, but I'm very aware of the fact that there
8 have been questions raised and there is litigation ongoing
9 about the Board's legal authority to take any action on
10 cap and trade. And I just want to make it clear that we
11 are not going to be making any findings or having any
12 discussion about that issue here at this meeting.

13 So if you put that in your prepared testimony,
14 you can omit that part. You can submit it if you want to.
15 We'll listen to it. But, I mean, it will be considered,
16 but it's not going to be part of the discussion here
17 today.

18 So with that, I will turn to Mr. Corey.

19 EXECUTIVE OFFICER COREY: Thanks, Chair Nichols.

20 So in October last year, staff held a kick-off
21 workshop to commence the public process to develop these
22 amendments, and a total of 10 publicly noticed workshops
23 were held from October 2015 through June of 2016. In
24 addition, staff also held numerous informal meetings with
25 stakeholders to discuss specific topics related to the

1 proposed amendments.

2 And the proposed amendments incorporate many
3 aspects of those discussions. Key elements of these
4 modifications would extend Cap-and-Trade Program beyond
5 2020 by establishing new caps, enable future auction and
6 allocation of allowances, and continue all other
7 provisions needed to oversee and implement the program
8 post 2020.

9 And as already noted, the scoping plan currently
10 being developed will inform any post-2020 Cap-and-Trade
11 Program. We'll plan to discuss the draft in a Board
12 hearing later this year.

13 The proposed amendments would also broaden the
14 program through linkage with the new Cap-and-Trade Program
15 in Ontario, Canada, and enable California's compliance
16 with the federal Clean Power Plan also to be discussed
17 later today.

18 And as part of the staff presentation, we'll also
19 provide a status report on the adaptive management
20 program, which is designed to monitor for and address
21 unintended AQ -- air quality impacts of the Cap-and-Trade
22 Program.

23 The Board will also hear a full report on
24 adaptive management at its November Board hearing.

25 And with that, I'm going to ask Mark Sippola with

1 the Climate Change Program Evaluation Branch to give the
2 staff presentation.

3 Mark.

4 (Thereupon an overhead presentation was
5 presented as follows.)

6 AIR RESOURCES ENGINEER SIPPOLA: Thank you, Mr.
7 Corey. And good afternoon Chair Nichols and members of
8 the Board.

9 Let me just start by pointing out that like this
10 previous item and the next time on compliance with the
11 federal Clean Power Plan, this presentation is being
12 translated into Spanish. We have audio equipment with
13 live Spanish interpretation available for check-out in the
14 lobby.

15 --o0o--

16 AIR RESOURCES ENGINEER SIPPOLA: Again, this is
17 the first of two Board hearings on the proposed
18 Cap-and-Trade regulation amendments. There's no Board
19 action on this item today. The second hearing on the
20 amendments is currently scheduled for spring 2017.

21 In 2015, Governor Brown issue an Executive Order
22 that set a goal of reducing statewide GHG emissions to 40
23 percent below 1990 levels by 2030. And this goal was
24 reaffirmed by SB 32, which was passed by the legislature
25 this year, and recently signed by the Governor.

1 ARB is updating the climate change scoping plan
2 in collaboration with other State agencies to establish
3 the path for realizing the 2030 greenhouse gas emissions
4 limit. The process of updating the scoping plan is being
5 done in parallel to the development of these Cap-and-Trade
6 regulation amendments.

7 Staff will continue stakeholder engagement on
8 these proposed amendments through the second Board hearing
9 in early 2017, and we expect at least one additional round
10 of proposed regulation changes -- regulatory changes with
11 a 15-day comment period prior to that second Board
12 hearing.

13 --o0o--

14 AIR RESOURCES ENGINEER SIPPOLA: AB 32 was passed
15 by the State legislature in 2006. And it requires
16 California to reduce GHG emissions to 1990 levels by the
17 year 2020, to maintain and continue GHG reductions beyond
18 2020, and to coordinate other State agencies to develop a
19 scoping plan that would layout the State's plan for
20 achieving the maximum technologically feasible and cost
21 effective emissions reductions.

22 The Cap-and-Trade Regulation was originally
23 adopted in 2011 as one of a suite of measures to reduce
24 GHG emissions and meet the goals of AB 32.

25 This year, the legislature passed and the

1 Governor signed SB 32, which directs ARB to use existing
2 authority to ensure that GHG emissions are reduced to at
3 least 40 percent below 1990 levels by 2030.

4 In 2011, the Board also approved an adaptive
5 management plan to identify and track any increases in
6 criteria and toxic pollutant emissions that would
7 potentially be caused by implementation of the
8 Cap-and-Trade Program. Staff believes that the
9 Cap-and-Trade Program is unlikely to result in increased
10 localizes emission impacts, but is committed to tracking
11 the issue as the program is implemented. The development
12 of the process to implement the adaptive management plan
13 is currently underway and being conducted in collaboration
14 with a air districts, academics, industry stakeholders,
15 and environmental justice representatives.

16 The final process to implement the adaptive
17 management plan is expected to be completed and presented
18 to the Board at a hearing later this year.

19 --o0o--

20 AIR RESOURCES ENGINEER SIPPOLA: The goal of the
21 Cap-and-Trade Program is to reduce statewide GHG
22 emissions. The cap limits total annual GHG emissions from
23 all regulated sources and its cap declines each year to
24 reduce emissions over time. The program is designed to
25 provide flexibility so the lowest cost reductions in the

1 economy can be targeted. The Cap-and-Trade Program works
2 together with traditional command and control measures. A
3 GHG emission reduction to satisfy a command and control
4 regulation also reduces the compliance obligation in the
5 Cap-and-Trade Program.

6 The program places a price on GHG emissions,
7 which incentivizes change and spurs innovation for low
8 emitting and energy efficient technologies. This
9 combination of features, meeting environmental goals,
10 flexibility, cost effectiveness make the Cap-and-Trade
11 Program a valuable mechanism for achieving the State's GHG
12 reduction goals.

13 We also support program transparency. And a
14 large amount of the information on the program is publicly
15 available at the main Cap-and-Trade Program website. And
16 we also have a list of publicly available program
17 information in the back of the auditorium today.

18 --o0o--

19 AIR RESOURCES ENGINEER SIPPOLA: Amendments to
20 most major provisions of the regulation are proposed in
21 this regulatory package. Some changes would be effective
22 starting in the program's third compliance period, called
23 here CP3, which runs from 2018 through 2020. Many of
24 these provisions would continue beyond 2020. Other
25 proposed changes would take effect after 2020. We're

1 including the post-2020 elements in this regulatory
2 package to signal The expected direction of the program
3 and to provide information useful to future compliance
4 planning.

5 Areas of the program that would be affected by
6 the proposed amendments in the third compliance period are
7 listed here. Most proposed changes aim to clarify the
8 regulation, streamline program implementation, simplify
9 participation by covered entities, ensure the allowance
10 allocations and compliance obligations are fair and
11 accurate.

12 These changes incorporate stakeholder suggestions
13 and staff experience to clarify and simplify, to the
14 extent that we can, while maintaining the ability to
15 effectively run the program.

16 The next few slides discuss the amendments that
17 would be effective in the third compliance period and
18 later slides will cover amendments regarding the post-2020
19 program.

20 --o0o--

21 AIR RESOURCES ENGINEER SIPPOLA: In general, the
22 approach to free allowance allocation to all industrial
23 sectors will continue through 2020. Currently, free
24 allowance allocation is provided for transition
25 assistance, and for leakage protection.

1 For allocation of industrial entities in CP3, we
2 propose to eliminate and update some product-based
3 benchmarks and some product definitions that are used to
4 determine allowance allocation. These changes are
5 proposed, so that the benchmarks more accurately represent
6 current sector make-up, and so the product data reporting
7 can be streamlined.

8 Third compliance period assistance factors for
9 all existing industrial sectors would remain as they are
10 in the current regulation, but we propose to add new
11 assistance factors for sectors that are newly covered by
12 the program using the same method as we've previously
13 used.

14 Staff continues to engage with stakeholders on
15 the specifics of these items and changes will be proposed
16 in a future 15-day regulatory package.

17 --o0o--

18 AIR RESOURCES ENGINEER SIPPOLA: Currently, free
19 allowances are provided to utilities on behalf of the
20 ratepayers, and the allowances must be used for ratepayer
21 benefit. The proposed regulation includes some changes
22 that would align these -- the requirements on how electric
23 and natural gas utilities may use the value of allocated
24 allowances that are consigned to auction. We propose to
25 add a requirement for electrical distribution utilities -

1 that's EDUs - that any allocated allowance auction
2 proceeds that are returned to ratepayers must be returned
3 in non-volumetric manner, thus ensuring that a carbon cost
4 is felt by end-users of electricity to incentivize
5 conservation and efficiency.

6 The existing regulation already prohibits natural
7 gas suppliers from returning proceeds in
8 non-volumetrically. Staff also proposes a 10-year
9 deadline for spending EDU and natural gas supplier
10 allocated allowance auction proceeds to ensure that this
11 value is put to use in a timely manner.

12 The current structuring for reporting on the use
13 of allowance -- allocated allowance value by the EDUs and
14 the natural gas suppliers has gaps, such that the use of
15 some proceeds may go unreported to ARB. So we also have
16 proposed changes to close that reporting gap and give ARB
17 a more complete picture of the use of these proceeds.

18 --o0o--

19 AIR RESOURCES ENGINEER SIPPOLA: The 2014
20 expansion of the California Independent System Operator's
21 real-time electricity market to include out-of-state areas
22 has led to an incomplete accounting of GHG emissions
23 associated with imported power serving California load.

24 This incomplete accounting results in emissions
25 leakage, which AB 32 requires AB to minimize to the extent

1 feasible. Amendments propose to modify the compliance
2 obligation on electricity imports in the real-time market
3 to ensure more accurate accounting. We continue, along
4 with the CAISO staff, to engage with stakeholders to
5 address and resolve this issue.

6 In addition, we propose to expand the eligibility
7 requirements for the voluntary renewable electricity
8 program while ensuring that the program requirements and
9 goals are met. And we propose to remove the qualified
10 export adjustment from the calculation of the compliance
11 obligation for imported electricity, because we believe it
12 is resulting in emissions leakage.

13 --o0o--

14 AIR RESOURCES ENGINEER SIPPOLA: We're proposing
15 some changes to points of compliance and limited
16 exemptions from obligations in the third compliance
17 period. Most of these changes originate from stakeholder
18 concerns and we're seeking to resolve these concerns
19 through the proposed changes.

20 These would include changes for liquefied
21 petroleum gas imports, liquefied natural gas suppliers,
22 and waste-to-energy facilities. And the list of emissions
23 without a compliance obligation would be updated to
24 capture appropriate emission sources and align with MRR
25 reporting.

1 --o0o--

2 AIR RESOURCES ENGINEER SIPPOLA: There are many
3 relatively minor changes to the compliance offset credits
4 program that seek to simplify and clarify implementation.
5 Again, these proposed changes incorporate stakeholder
6 suggestions, and staff's implementation experiences in the
7 early years of the program.

8 Proposed changes would mean that livestock and
9 mine methane capture projects would have more limited and
10 validation time periods, and there would be additional
11 time for a verified estimate of carbon stocks after an
12 unintentional forest -- forestry offset reversal.

13 Additional changes would streamline provisions on
14 offset project listing, reporting and verification, and
15 issuance. For example, projects would be allowed to
16 transfer from one registry to another, verification body
17 rotation would be simplified, and authorized project
18 designees would be able to request issuance of offset
19 credits to any authorized party.

20 --o0o--

21 AIR RESOURCES ENGINEER SIPPOLA: Similarly, in
22 the areas of program registration and the administration
23 of auctions and reserve sales, we're aiming to reduce the
24 administrative burden, clarify the existing rules, and
25 eliminate elements that are not needed.

1 For example, provisions on designating and
2 changing account representatives would be streamlined. We
3 would allow for some registration information to be
4 submitted electronically instead of by hard copy, and
5 criteria for determining if a reserve sale will not be
6 offered would be clarified.

7 --o0o--

8 AIR RESOURCES ENGINEER SIPPOLA: The corporate
9 association disclosure requirements would be streamlined
10 while retaining effective market oversight. Registered
11 entities must currently disclose its corporate
12 associations with other entities outside California and
13 any jurisdiction with which the Cap-and-Trade Program is
14 currently linked.

15 The proposed amendments would limit these
16 disclosures to corporate associations -- to corporate
17 associates that also participate in markets that are
18 related to the California carbon market, and these
19 disclosures would only be needed upon request by ARB.
20 Also, a registered entity that only holds offset credits
21 would not be required to disclose any corporate
22 associations.

23 Some disclosure requirements would remain the
24 same, such as the requirement to disclose all direct and
25 indirect corporate associations with other registered

1 entities, and to disclose all parent entities up to and
2 through the ultimate parent.

3 --o0o--

4 AIR RESOURCES ENGINEER SIPPOLA: Program linkage
5 provides greater emissions reductions at a lower overall
6 cost and improves market liquidity compared to unlinked
7 program. The California program is currently linked with
8 Quebec and no additional amendments or linkage findings
9 under SB 1018 are required to continue that linkage.

10 The proposed amendments would Link the current
11 program with the emerging Cap-and-Trade Program in Ontario
12 beginning in 2018. Ontario is a member of the Western
13 Climate Initiative and collaborated on the development of
14 the WCI design recommendations to encourage program
15 compatibility and facilitate Cap-and-Trade Program
16 linkage.

17 --o0o--

18 AIR RESOURCES ENGINEER SIPPOLA: Ontario is
19 developing a new Cap-and-Trade Program. Their program has
20 already begun entity registration with a proposed
21 Ontario-only auction in early 2017. And staff expects to
22 submit the required SB 1018 findings for linkage to the
23 Governor prior to bringing the final package to the Board
24 for approval.

25 During the development of these amendments, staff

1 held several workshops on potentially incorporating
2 sector-based offset credits into the program by linking
3 with the tropical forestry program and Acre, Brazil. This
4 linkage is not part of these amendments, but we continue
5 to work toward incorporating sector-based offset credits
6 into the program at a future date.

7 --o0o--

8 AIR RESOURCES ENGINEER SIPPOLA: The program
9 linkage with Quebec or the linkages that would occur with
10 Ontario or a sector-based offset credits program are
11 governed by the provisions in the existing regulation. In
12 these linkages, substantial coordination is needed with
13 linkage partners to harmonize schedules, as well as
14 auction, market, and reserve sale procedures.

15 Staff's preference will be to continue -- staff's
16 preference will continue to be for establishing these
17 types of coordinated linkages. In recognition of
18 discussions of other types of linkage engagements, the
19 proposed amendments would also describe two new forms of
20 engagement with other jurisdictions that are more limited
21 in scope than the currently available traditional
22 linkages.

23 One form would allow entities in California to
24 retire compliance instruments issued by another GHG
25 program to achieve compliance in California. And the

1 second would enable entities in a non-California GHG
2 program to retire California compliance instruments.

3 Interest in these more limited engagements arises
4 from discussion with other GHG programs that may be
5 compatible with our program, but have different market
6 rules, source coverage, and compliance obligations.

7 No such engagements are currently proposed.
8 However, we propose changes to describe the pathways for
9 how these types of engagements could be achieved. Staff
10 believes that it's important to conduct a public process
11 and to seek Board approval for any new linkages or
12 engagements with other jurisdictions, and that including
13 the requirements for such engagements in the regulation is
14 necessary to ensure that occurs.

15 --o0o--

16 AIR RESOURCES ENGINEER SIPPOLA: The remaining
17 slides cover amendments for the post-2020 program. These
18 would extend all of the major provisions of the regulation
19 to allow the program to be implemented after 2020. This
20 would include establishing annual emissions cap through
21 2031 with a placeholder equation for caps beyond 2031,
22 continuing linkages with Quebec and Ontario, and enabling
23 the future auction and allocation of allowances.

24 Provisions are also included that would allow the
25 Cap-and-Trade Program to enable California's compliance

1 with the federal Clean Power Plan.

2 --o0o--

3 AIR RESOURCES ENGINEER SIPPOLA: The chart shows
4 proposed annual emission caps from 2020 through 2031. A
5 linear cap trajectory is established to provide a gradual
6 reduction path to the 2030 target. Staff acknowledges
7 that any post-2030 caps would need to be revisited in the
8 context of future updates to the scoping plan to reflect a
9 2050 limit.

10 We propose to allocate a small fraction of
11 allowances to the allowance price containment reserve, the
12 APCR. This is represented by the red portion at the top
13 of each bar, and the amount decreases each year such that
14 it's 0 in 2030 and beyond.

15 We propose to allocate allowances from the annual
16 budgets to the APCR in a manner that recognizes that 2020
17 statewide emissions are expected to be lower than the 2020
18 target. The number of vintage 2021 allowances placed in
19 the APCR equals the difference between the total budget in
20 2021, and the currently projected emissions in 2021, which
21 are lower.

22 For subsequent years, the number allocated to the
23 APCR is the difference between the two linear paths that
24 start at these different points in 2021 and converge at
25 the 2030 target.

1 --o0o--

2 AIR RESOURCES ENGINEER SIPPOLA: This would place
3 an additional 54.5 million allowances in the APCR, which
4 is less than the -- which is less than 1.9 percent of the
5 total budget from 2021 through 2030. From 2013 through
6 2020, about 4 percent of the total budget was placed in
7 APCR, a total of over 120 million allowances. Any of
8 these pre-2020 allowances remaining in the reserve after
9 2020 would continue to be available in the post-2020 APCR.

10 The current APCR is 3 price tiers, and the
11 price -- the prices each increase each year by five
12 percent plus the rate of inflation. The post-2020 APCR
13 would have a single price set at \$60 above the auction
14 floor price. This change would lead to a slower annual
15 price increase for the APCR allowances.

16 Currently, a limited number of allowances that
17 are unsold at auction become available for later resale
18 after 2 auctions sell out above the auction floor price,
19 and this continues indefinitely. Proposed amendments are
20 included so that State-owned allowances that remain unsold
21 for more than 24 months, that's 8 auctions, would be
22 transferred to the APCR. This change would apply to the
23 third compliance period, in addition to the post-2020
24 program.

25 --o0o--

1 AIR RESOURCES ENGINEER SIPPOLA: We propose
2 several amendments to support California's compliance with
3 the federal Clean Power Plan, which is a set of
4 requirements put forth by U.S. EPA for GHG emissions from
5 existing electricity-generating units. The Clean Power
6 Plan, CPP would begin in 2022. The next Board item will
7 discuss the elements we propose to include in California's
8 CPP compliance plan in more detail, but here I want to
9 describe the changes that we are proposing to the
10 Cap-and-Trade Program, so it meets the CPP requirements.

11 CPP establishes aggregate GHG emission goals for
12 existing electricity generating units, that's EGUs. Under
13 this proposal, all EGUs in the State affected by CPP would
14 be required to participate in the Cap-and-Trade Program
15 regardless of emissions level, and compliance by EGUs with
16 the program would allow California to demonstrate
17 compliance with CPP.

18 --o0o--

19 AIR RESOURCES ENGINEER SIPPOLA: The main
20 elements for enabling CPP compliance include establishing
21 mass emission targets for aggregate emissions from
22 affected EGUs over the course of defined compliance
23 periods; aligning Cap-and-Trade Program compliance periods
24 with CPP compliance periods for all covered entities; and
25 establishing a federally enforceable backstop emissions

1 standard designed to bring aggregate EGU emissions into
2 compliance with the federal target, and make up for any
3 previous emissions overage in a timely manner, if
4 participation in the Cap-and-Trade Program fails to meet
5 the aggregate target in a given compliance period.

6 We believe that the backstop is extremely
7 unlikely to be triggered based on projected emissions,
8 even under the most conservative modeling scenarios. But
9 the backstop provisions are included to meet the federally
10 enforce -- federal enforceability requirements of CPP.

11 --o0o--

12 AIR RESOURCES ENGINEER SIPPOLA: Staff proposes
13 to retain approaches to allowance allocation in post-2020
14 program. All groups listed here that will receive
15 allowance allocation in the third compliance period, would
16 continue to receive free allocation for protection against
17 emissions leakage and for ratepayer benefit as
18 appropriate.

19 The current proposal includes placeholder text
20 for most details of post-2020 allowance allocation. And
21 staff continues discussions with stakeholders on nearly
22 all aspects of post-2020 allocation. We expect to propose
23 changes in an upcoming 15-day package that would
24 incorporate the results of these discussions.

25 Specific elements that will be addressed include

1 post-2020 assistance factors for calculating industrial
2 allocation, the cap decline factors, and electrical
3 distribution utility allocation.

4 --o0o--

5 AIR RESOURCES ENGINEER SIPPOLA: Regarding
6 post-2020 allocation to industrial entities, staff is
7 under Board direction to investigate improvements to the
8 initial leakage risk assessments conducted in 2010 and
9 2011 to best protect against emissions leakage. ARB
10 commissioned 3 studies of emissions leakage risk for
11 California's manufacturing sectors to inform the
12 development of assistance factors used to calculate
13 allocation to industrial entities.

14 This leakage risk assessment -- these leakage
15 risk assessments were completed in May of this year and
16 presented at a public workshop shortly thereafter. We
17 propose to incorporate the results of these studies and
18 apply a new leakage risk assessment methodology to
19 establish post-2020 assistance factors. Because the
20 release of the leakage studies was delayed, staff believes
21 that more time is warranted to discuss the new method and
22 to provide stakeholders more opportunity to review and
23 comment on how to best incorporate the leakage studies for
24 post-2020 allocation. Staff did not propose specific
25 assistance factors in this initial package, but we do

1 due to retirement of certain resources, and the proposed
2 shift in allocated allowances from the electric utilities
3 to industrial covered entities for emissions associated
4 with electricity purchases. Staff is also considering how
5 to account for increased electrification of transportation
6 and EDU allocation.

7 Staff initially proposed to discontinue the
8 voluntary RPS adjustment after the 20 -- after 2020,
9 because there has been widespread misuse of the
10 adjustment, and because it is proven to be extremely
11 difficult to track and enforce.

12 After discussions with the EDUs, staff proposes
13 to either discontinue the RPS adjustment post-2020 and to
14 provide each EDU with an allowance allocation that
15 accounts for the loss of the adjustment, or to continue
16 the RPS adjustment post-2020 as currently included in the
17 regulation with no additional allocation.

18 We continue to discuss all details of post-2020
19 allocation with the utilities, including the cost burden
20 calculation and the post-2020 treatment of the RPS
21 adjustment.

22 --o0o--

23 AIR RESOURCES ENGINEER SIPPOLA: For post-2020
24 allocation to natural gas suppliers, the main change
25 relates to consignment requirements, consignment of

1 allocated allowances to auction generally passes carbon
2 costs from the program on to the end-users of the natural
3 gas, thus incentivizing conservation and efficiency on the
4 part of the ratepayers.

5 Natural gas suppliers are currently required to
6 consign a minimum percentage of allocated allowances to
7 auction each year. In 2016, they're required to consign
8 30 percent of allowances, and that increases by 5 percent
9 each year, reaching 50 percent in 2020.

10 We seek to accelerate that rate of increase to
11 achieve 100 percent consignment early on in the post-2020
12 program. Full consignment would bring parity to the
13 consignment requirements of natural gas suppliers, and the
14 investor-owned electrical distribution utilities, and
15 bring equity in the natural gas carbon cost experienced by
16 covered entities and non-covered entities.

17 The exemption from the program for combined heat
18 and facilities that would be below the program inclusion
19 threshold, but for their use of cogeneration, would be
20 extended until full consignment by natural gas suppliers
21 is achieved. Once 100 percent consignment is achieved,
22 there will no longer be a need for the exemption, because
23 the covered facilities and non-covered facilities should
24 face the same carbon costs.

25 --o0o--

1 AIR RESOURCES ENGINEER SIPPOLA: The voluntary
2 renewable electricity program is in place to ensure that
3 overall emission reductions are achieved by the
4 voluntary -- by voluntary renewable electricity
5 generation. Demand for allowance retirement from the VRE
6 account has been low.

7 For 2013 and 2014, over 1.6 million allowances
8 were set aside, but only about 200,000 allowances have
9 been retired. That's about 13 percent.

10 Staff proposes to not place any additional
11 post-2020 allowances into the VRE account because demand
12 has been low and because the program was intended to be
13 transitional in nature. Any 2013 through 2020 allowances
14 placed into the VRE account would continue to be available
15 for retirement post-2020 until the account is exhausted.

16 --o0o--

17 AIR RESOURCES ENGINEER SIPPOLA: In developing
18 these amendments, staff conducted economic and
19 environmental assessments that are required by statute,
20 and these are included as appendices to the staff report.
21 First, staff conducted a Standardized Regulatory Impact
22 Assessment, or SRIA, which analyzes the projected economic
23 impacts of a major regulation, such as cap and trade,
24 along with several alternatives.

25 The SRIA which ARB conducted and subsequently

1 revised based on comments from the Department of Finance
2 and stakeholder input reviewed the proposed amendments and
3 two alternatives, a facility-specific requirements
4 alternative, and a carbon fee and dividend alternative.

5 The facility-specific requirements alternative
6 would require all covered entities to make on-site
7 reductions to 40 percent below 1990 emission levels by
8 2030. And the carbon fee and dividend alternative would
9 set the carbon price at the U.S. EPA social cost of carbon
10 which was \$36 per metric ton of CO₂e in 2015, and was
11 projected to increase to \$50 in 2030.

12 The SRIA evaluated these alternatives and the
13 proposed amendments for AB 32 requirements of cost
14 effectiveness, ability to allow program linkage, and
15 impacts to gross State product, industrial sectors, and
16 individuals as well as other factors.

17 The SRIA modeling found that the proposed
18 amendments will have a small impact on the California
19 economy, and that they achieve GHG reductions at a lower
20 cost than adopting facility-specific requirements.

21 It found that the carbon fee, while similar in
22 cost impact, would not ensure the same emissions
23 reductions as the proposed amendments, and would not allow
24 for linkage.

25 Second, staff also conducted the required

1 environmental analysis under the California Environmental
2 Quality Act. The CEQA document also reviewed a
3 facility-specific requirements alternative, and a carbon
4 fee alternative, in addition to a no-project alternative.

5 The CEQA review found that the proposed
6 amendments achieved the project objectives. Whereas, the
7 alternatives would not meet several of the project
8 objectives or ensure similar emissions reductions.

9 It also found that the facility-specific
10 requirements would increase administrative complexity and
11 cost to comply compared to the proposed amendments. The
12 review found further that facility-specific requirements
13 would result in more difficulty fully accounting for
14 imported power emissions compared to the more flexible
15 market design of the Cap-and-Trade Program.

16 --o0o--

17 AIR RESOURCES ENGINEER SIPPOLA: This slide
18 provides a brief synopsis of the overall CEQA findings.
19 Staff completed a draft environmental analysis for the
20 proposed amendments, and released it for a 45-day comment
21 period on August 5th. The public comment period closed on
22 September 19th, and staff will be preparing written
23 responses to all of the comments received on the draft EA.

24 Staff will present the final EA and written
25 responses to comments on the draft EA for consideration by

1 the Board in spring 2017.

2 Staff has determined that the expected
3 environmental impacts for the proposed amendments are
4 consistent with the prior analyses conducted for the
5 program.

6 --o0o--

7 AIR RESOURCES ENGINEER SIPPOLA: Regarding the
8 next steps for the rule-making, we will continue to engage
9 with stakeholders as we develop at least one round of
10 15-day changes. Staff will bring this item back to the
11 Board for final action in early 2017, and if adopted, the
12 amendments would become effective October 1st, 2017.

13 This concludes our -- staff's presentation.
14 Before we move on to comments and discussion, we're
15 offering members of the environmental justice community
16 the opportunity to speak on these proposed amendments.

17 So, at this time, I'd invite the EJAC members
18 that are going to speak to come forward to the podium.

19 CHAIR NICHOLS: There are questions from the
20 Board members for staff, which perhaps you could take
21 before we hear from the Environmental Justice Advisory
22 Committee members, or after, either way.

23 BOARD MEMBER GIOIA: I'll wait. I'll wait.

24 CHAIR NICHOLS: Lets wait. Let's have the
25 Committee, and that sort of completes that.

1 They're not staff, but they are advisors to us,
2 so...okay.

3 MS. GARCIA: Good afternoon. My name is Katie
4 Valenzuela Garcia. I'm joined today by Martha Dina
5 Argüello, Luis Olmedo, Mari Rose Taruc, Monica Wilson as
6 well as several EJAC members across the State who weren't
7 able to be here, but are watching on-line.

8 We're hear in solidarity with our environmental
9 justice partners from other organizations to present our
10 specific perspective on this item

11 Since it's inception, environmental justice
12 advocates have had serious concerns about cap and trade in
13 California. In the 2030 target scoping plan process, we
14 had recommended against cap and trade and encouraged ARB
15 to meaningfully examine alternatives. We were very happy
16 when the draft concept paper was released with 3 of the 4
17 alternatives, not including cap and trade, and have
18 embarked on a really robust community engagement process
19 that started this summer and will continue through the
20 fall to try to inform that process.

21 My first point is that, as I said at the last
22 meeting on this topic, that we don't feel it's appropriate
23 to be giving cap-and-trade discussions before the scoping
24 plan is complete, since the entire intent of this process
25 is to determine how and if cap and trade would continue

1 past 2020.

2 Further, as you talked about briefly this
3 morning, we've all seen the report that was released by
4 the California Environmental Justice Alliance last week.
5 It's findings confirm what environmental justice advocates
6 have said for many years, and it reaffirms my belief that
7 data is sometimes unfortunately a few years behind the
8 live experience in these communities.

9 We know that polluters are more likely to be
10 located in communities of color and low income areas, and
11 that large polluters are using credits and offsets to be
12 compliant rather than reducing emissions at the source.
13 We can no longer deny that cap and trade is allowing
14 pollution to continue, and at times increase in our
15 communities.

16 For centuries our world's progress has largely
17 been made on the backs of people of color and low income
18 communities. AB 32 was developed to intentionally
19 confront that dynamic when it linked climate policy with
20 environmental justice. Cap and trade doesn't meet that
21 mandate. And we're here to strongly encourage ARB to
22 consider alternatives that allow us to be breathe
23 healthier air for everybody.

24 And with that, I will turn it over to Martha.

25 MS. ARGÜELLO: Good afternoon. My name is Martha

1 Dina Argüello. Thank you for the opportunity to address
2 the Board and staff. As actually both the oldest and the
3 longest standing member of the Environmental Justice
4 Advisory Committee, I often think back to 2006 --
5 actually, to 2005 when these ideas were being born, that
6 became AB 32.

7 And in 2006, environmental justice advocates
8 then understood, especially those of us from southern
9 California, some of the risks involved with the
10 Cap-and-Trade Program. And we've stood before you many
11 times to talk about these.

12 But there was a point in the negotiations around
13 AB 32, and it was a small word. It went from "shall"
14 include trading to "may" include a market mechanism. That
15 word "may" meant a lot to us and it continues to mean a
16 lot to us. We stood here before you in 2006 and 2008, and
17 in the words of Angela Johnson-Meszaros, who was the Chair
18 of the Committee at that time, there is a better way.

19 And we have been wanting to work with you since
20 that time to find that better path. And so we were very
21 happy to see, in those concepts around the scoping plan,
22 that we had begun to look at a more hybrid approach that
23 really asked the questions that we've been asking, what's
24 happening in low-income communities?

25 And now you have what we in public health call 2

1 early warnings. So you have your own adaptive management
2 data that seems to indicate some increases in some areas.
3 Is that definitive scientific proof that this is
4 happening? No, but it bears out the limited experiences
5 of people who live next to these traded facilities. And
6 the second earlier warning is the report that has just
7 been produced out of USC. And those of you who understand
8 public health know the importance of acting on early
9 warnings.

10 And those of us from the environmental justice
11 community wanted you to have these early warning datas, so
12 that we can begin to change the program where it needed to
13 be -- where it needs to be change.

14 We think that the trading program is not -- has
15 not given us the kinds of deep rapid reductions that we
16 need to address climate change, or that we need to address
17 the driver of health disparities that is air pollution.

18 We warned against separating climate emissions
19 from air quality. And because I'm petty, we told you,
20 right?

21 (Laughter.)

22 MS. ARGUELLO: So I don't have a problem telling
23 I told you so. My mother tried to cure me of that, but
24 she hasn't been able to. So we told you then, and so we
25 want to continue to be a partner with you and act on these

1 early warnings, because we have time right now to make a
2 difference in the design of the program, and design a
3 program that actually does what we need it to do. We want
4 a just transition to a new economy. This economy has not
5 worked for most people of color and low-income
6 communities. It has not meant more wealth. And with all
7 due respect to all the discussion about jobs, those jobs
8 are not in the communities and they're not building wealth
9 in our communities, so -- and the other thing I want to
10 say is that the environmental justice community stood up
11 for AB 32.

12 There are people in this room who walked
13 precincts, who knocked doors, who talked to the press, and
14 we defended AB 32. We ask the Board now to stand with
15 environmental justice communities and fix this program.
16 Give us a program that does direct emissions reductions,
17 funds the just transition to a green economy, so that we
18 afford to breathe and have a job.

19 Thank you.

20 CHAIR NICHOLS: Okay. Thank you.

21 Now, Mr. Gioia.

22 BOARD MEMBER GIOIA: I just had one question of
23 the staff, just in -- so I know that in looking at the
24 suite of measures to achieve the 2020 goal, cap and trade
25 is responsible for about 20 percent of that. The other 80

1 percent through various other programs, including
2 regulatory programs like the Low Carbon Fuel Standard. So
3 now looking at the new goal, the 2030 goal, what is
4 the -- what is the estimate, if we know, in terms of cap
5 and trade's contribution to getting to the 2030 goal? It
6 was about 20 percent to get to 2020, so what is it to get
7 to 2030?

8 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

9 SAHOTA: So, Board Member Gioia, I have a rough estimate
10 of that, because we're still in the process of modeling
11 that for the scoping plan work.

12 BOARD MEMBER GIOIA: Right.

13 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

14 SAHOTA: Looking at the business-as-usual scenario, if we
15 didn't do anything, other than that we've done today, we
16 would need to achieve approximately 800 to 900 million
17 Metric tons of reductions to hit the 2030 target. So
18 that's cumulative between 2021 and to 2030. Looking at
19 measures that are known commitments like SB 350, which we
20 have to implement, an enhanced LCFS program, the mobile
21 source strategy, which is developed for SIP requirements
22 for federal air quality attainment purposes, all of those
23 get us a bulk of those reductions towards 2030.

24 What we're left with on the table is about 150
25 million metric tons in cumulative amount relative to the

1 800 to 900 that would be potentially made up by cap and
2 trade, or some other suite of measures.

3 BOARD MEMBER GIOIA: So just to do the math,
4 you're saying so 150 -- I'm trying to do the math just
5 percent.

6 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
7 SAHOTA: Yes.

8 BOARD MEMBER GIOIA: So 150 out of --

9 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
10 SAHOTA: About 800 to 900 million.

11 BOARD MEMBER GIOIA: So I'll take 8 out 850, so a
12 similar percent. That's about 17½ percent. So the view
13 is that cap and trade, in round numbers, would be
14 responsible for 20 percent of the reductions that we need
15 for -- to reach the 2030 goal, and the other 80 percent
16 would come from other regulatory measures.

17 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
18 SAHOTA: That's correct.

19 BOARD MEMBER GIOIA: Okay.

20 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

21 SAHOTA: And when we talk about cap and trade, that's
22 really the actual reductions at the smoke stack and
23 tailpipe in California. So when we're counting against
24 progress towards the 2020 target and 2030 targets, you're
25 not subtracting out any kind of offsets that you're using.

1 What you're really looking at is the actual emissions at
2 the smoke stack facilities in California, the emissions
3 associated with the tailpipe emissions from mobile
4 sources, and any imported power brought into the state.
5 You're not netting against any offsets used in the
6 Cap-and-Trade Program.

7 BOARD MEMBER GIOIA: Okay. I just wanted to get
8 that number. Thanks.

9 CHAIR NICHOLS: Any other questions before we go
10 to the testimony?

11 Yes.

12 BOARD MEMBER FLOREZ: Thank you. I have a
13 questions for staff.

14 Maybe following Mr. Gioia's comments, so we have
15 the 2030 goal. I'd like to ask on the allowances that
16 were mentioned earlier, the 13 percent. So the first goal
17 is 2020. That seems pretty doable. And then we have
18 2030, and we have a much steeper climb, correct? So we
19 have like 40 percent more. So what happens with the
20 allowances? You kind of mentioned this in your analysis.
21 You know, I kind of call it flooding of keeping prices
22 down, in a way. Does that get harder as we go forward
23 unless we clear some of this? I'm just trying to
24 understand the allowance discussion and how it plays into
25 the tougher goal now, which is from 2020 to 2030 we have a

1 lot of allowances there. You mentioned 13 percent number.
2 What happens going forward with that? How does that
3 program work?

4 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

5 SAHOTA: So currently in the Cap -- Cap-and-Trade Program
6 for the allowances, they decline each year between 2 and 3
7 percent. Post-2020, the decline --

8 BOARD MEMBER FLOREZ: It sounds like we have a
9 lot of them though, right?

10 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

11 SAHOTA: I'm sorry?

12 BOARD MEMBER FLOREZ: It sounds like we have a
13 lot of allowances in the current program prior to the next
14 stage.

15 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

16 SAHOTA: Oh, that's the allowance price containment
17 reserve, so --

18 BOARD MEMBER FLOREZ: Yeah. So but even if it's
19 declining, I'm just wondering how do we -- how do we kind
20 of price these in a way that gets us so there isn't shock
21 at the end? There isn't as massive --

22 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

23 SAHOTA: Okay. I think I can --

24 BOARD MEMBER FLOREZ: -- need to shock the system
25 and everyone comes back and says, it's undoable.

1 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

2 SAHOTA: So there are a couple mechanisms here. The first
3 is that you can hold a certain amount of allowances. You
4 can bank them during this period for use in the future.
5 There's a limit to that. So you just can't buy and hold
6 any amount that you want to that you're willing to pay
7 for. There's an absolute limit to that.

8 Any allowances that are in our accounts, like the
9 strategic reserve, those get available, if needed, for the
10 post-2020 period.

11 So that cost containment moves forward and is
12 enhanced a little bit by the 54 million in the post-2020
13 budgets. When we think about the emissions and the way
14 the caps were set now, we used reported data and the best
15 available data to understand where to set the caps for
16 this period. We have modeling from the scoping plan
17 process right now that says that our missions are going to
18 be below the 2020 target in 2020.

19 So what we did was we -- in setting the 2021 cap,
20 we didn't just do a linear drop from 2020 to 2021, we
21 actually account for that expected lower emissions number
22 in 2020 by taking out allowances from the 2021 budget, and
23 putting those into the APCR. So we recognize that we're
24 coming in lower in 2020 and adjust for that post-2020.

25 BOARD MEMBER FLOREZ: Okay. So are we going to

1 be moving that number in forward as we head to 2030?

2 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

3 SAHOTA: The amount that we pull out?

4 BOARD MEMBER FLOREZ: Yeah.

5 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

6 SAHOTA: Yes, that goes into the strategic reserve. So if
7 there are any price shocks or any kind of tightening of
8 the market that we're not seeing, those would be available
9 at the higher prices, but not in general circulation.

10 BOARD MEMBER FLOREZ: Okay. And let me just --
11 I'll mention this at the -- maybe the end of the
12 testimony, but that remaining amount, the reserve, in
13 order to prevent the shock, if you will, those allowances,
14 in some sense, continue to allow some of our emitters to
15 continue to operate as is?

16 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

17 SAHOTA: Only if they're willing to pay that higher price
18 to procure those allowances. We've offered to hold
19 reserve sales for the last couple of years, and there's
20 been absolutely no interest in that.

21 BOARD MEMBER FLOREZ: Yeah, but is it a higher
22 price, given what you just told me in terms of easing that
23 price mechanism moving all the way out to 2030? And we
24 have this steep climb again, right? We've got a different
25 goal. It's 40 percent.

1 So I'm just wondering what -- what I'm -- I guess
2 what I'm trying -- I'm missing the mechanism that really
3 makes them do something.

4 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

5 SAHOTA: So moving from 2020 to 2021 we still have the
6 reserve price which is the market price for which we sell
7 allowances at in auction, the floor price. That continues
8 to increase 5 percent plus inflation each year. So that
9 same process continues post-2020.

10 The cap gets tighter post-2020, and the rate of
11 decline gets much steeper post-2020. So there is a
12 scarcity that continues just like now, but at a more rate
13 steep -- a steeper rate of decline. And the prices
14 continue to climb just at the auctions that we have.

15 If there was some, in some sense, an unexpected
16 demand, then -- unexpected over what we expected it to be
17 obviously, there are still strategic reserve allowances
18 available to still help ease any price shocks that would
19 occur.

20 So there's a couple of mechanisms that work
21 together to make sure that we have a smooth transition,
22 prices continue to increase on the floor for the auctions,
23 the budgets get tighter at a higher rate post-2020 to make
24 sure that folks are incentivized to continue to take
25 action, or they're going to have to pay more to be able to

1 cover their emissions.

2 BOARD MEMBER FLOREZ: Okay. And I guess the
3 thing I'm missing is in the original presentation, you
4 know, we have this glut of allowances now, right? I mean
5 it was -- what was the number? You gave it earlier, Mark,
6 13 percent or -- you were going through your allowances.
7 You had a pole --

8 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
9 SAHOTA: The 120 million metrics tons?

10 BOARD MEMBER FLOREZ: Yeah.

11 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

12 SAHOTA: Those are in the strategic reserve, so those are
13 not available to the market unless prices get up to the
14 reserve prices, which are about \$50 to \$60 right now.

15 BOARD MEMBER FLOREZ: And you don't see moving
16 those forward in order to deal with the cost containment?

17 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

18 SAHOTA: So those would be moved forward and then we would
19 add the 54 million to that pool.

20 BOARD MEMBER FLOREZ: If needed, correct?

21 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

22 SAHOTA: If needed, that's right.

23 BOARD MEMBER FLOREZ: Okay.

24 DEPUTY EXECUTIVE OFFICER CHANG: And I think it's
25 really important to point out that strategic price

1 reserve, those are allowances that come out of the cap.
2 So even if they all get used, the environmental integrity
3 of the program is still preserved. So they're not made up
4 out of elsewhere. They actually come out of the caps that
5 we've already set.

6 BOARD MEMBER FLOREZ: Okay. Thank you.

7 CHAIR NICHOLS: Questions.

8 BOARD MEMBER TAKVORIAN: So I think I'm a little
9 bit confused about the process, and I think that some of
10 what I just heard from the Environmental Justice Advisory
11 Committee representatives also reflects some of my
12 confusion.

13 My understanding was that the concept paper on
14 the scoping plan was offering alternatives that were to be
15 analyzed in relationship to the market mechanism, or
16 whether there's a market mechanism or not. And so I --
17 and so that's one. And my question is how does this
18 move -- what's the rationale for this moving forward at
19 this time when that body of work hasn't been completed
20 yet? And --

21 CHAIR NICHOLS: That's a good question.

22 BOARD MEMBER TAKVORIAN: Okay. Good.

23 CHAIR NICHOLS: But I mean, do you want -- or you
24 have another question or is it related to the question?

25 BOARD MEMBER TAKVORIAN: Well, so that's the

1 major question is it -- I'm trying to understand the order
2 of things. And we've had a lot of work on the scoping
3 plans across the State. The staff has done an amazing
4 amount of work, EJAC has done an amazing amount of work,
5 and this feels like it's, for lack of a better term,
6 cutting in line a bit. And so I'd just like to get clear
7 on that.

8 CHAIR NICHOLS: Yeah, that should be addressed.
9 Who wants to take that one? Edie?

10 DEPUTY EXECUTIVE OFFICER CHANG: Why don't I --
11 why don't I start.

12 So think that the key thing is that the Board is
13 not being asked to take any action today on the
14 Cap-and-Trade Regulation. The process to make
15 modifications to the Cap-and-Trade Regulation is a fairly
16 lengthy process, as you know, you've heard and I think
17 you'll here today with a number of folks that are
18 commenting on this regulation.

19 And so we're doing this work on the Cap-and-Trade
20 Regulation and making sure that we're ready to go. The
21 Board isn't being asked to act today. In the meantime, we
22 are continuing to work on the scoping plan, and the
23 scoping plan is looking at a variety of different
24 approaches. We laid out some potential concepts --
25 potential scenarios in the concept paper, and we're

1 continuing to look at different scenarios that we'll be
2 releasing in a draft scoping plan later this year.

3 So there is -- there is still time for the Board
4 to, you know, choose a different approach before the
5 Cap-and-Trade regulation is finalized.

6 CHAIR NICHOLS: But just to be clear, the -- some
7 of these amendments deal with the plan that has been
8 adopted, and is in law until -- through 2020. And so that
9 is not under consideration to be changed, abandoned, or
10 whatever. Okay.

11 DEPUTY EXECUTIVE OFFICER CHANG: Right.

12 CHAIR NICHOLS: So we have a program that's good
13 through 2020, and then maybe a plan beyond, but we have
14 other work to do before we can extend it.

15 BOARD MEMBER TAKVORIAN: Right. So we could
16 expect -- just to make sure I'm really clear. We could
17 expect to see the same kind of robust analysis for the
18 alternative mechanisms as we're seeing for the cap and
19 trade --

20 DEPUTY EXECUTIVE OFFICER CHANG: Right.

21 BOARD MEMBER TAKVORIAN: -- mechanism going
22 forward.

23 DEPUTY EXECUTIVE OFFICER CHANG: Right.

24 CHAIR NICHOLS: Yes. There would be need to.

25 BOARD MEMBER TAKVORIAN: And we would see that in

1 the spring 2017?

2 DEPUTY EXECUTIVE OFFICER CHANG: As part of the
3 scoping plan later this year.

4 BOARD MEMBER TAKVORIAN: So it won't be pulled
5 out? So my next question, so why isn't that getting
6 pulled out separately in the way that this is? And I
7 understand that there's the 2020, and it's getting
8 combined. But it seems like, obviously this is major,
9 that it deserves its own discussion and report, that --
10 because the scoping plan is going to be very lengthy and
11 comprehensive. So I wonder if you'd thought about that,
12 and whether that might be an option?

13 DEPUTY EXECUTIVE OFFICER CHANG: Well, I think
14 also this regulation isn't a regulation that is existing
15 right now. And so we know more about it, to the extent
16 that we're looking at new approaches in the scoping plan
17 that might be new regulatory processes, and require
18 additional work to sort of flesh out that whole process,
19 we wouldn't -- we're not in the same place on those -- you
20 know, if we have new proposals for the scoping plan.

21 BOARD MEMBER TAKVORIAN: Agreed. But as the
22 world changes, as the legislation has come forward, it
23 just seems like we -- we need to kind of jump into that as
24 much as we can in depth. So maybe something to consider
25 for the future.

1 CHAIR NICHOLS: Yeah. I think the staff is not
2 here today ready to discuss how they're going to comply
3 with 197, but they know they have to comply with 197, and
4 it is part of the thinking about how to address the
5 alternative ideas that were out there in that original
6 scoping plan, because clearly there needs to be, as you
7 said, a more robust discussion, and maybe some different
8 thoughts, I think, anyway.

9 So actually, Mr. Eisenhut had his hand up first
10 and then Mr. Serna.

11 BOARD MEMBER EISENHUT: There we go. Thank you.
12 In the context of timing, I also had a concern -- I have a
13 concern that stems from our earlier presentation that Dr.
14 Balmes did. And it's difficult for me to evaluate cap and
15 trade in the context of that earlier report without
16 knowing what adaptive management looks like when it would
17 be utilized, how it will be utilized, what the trigger
18 points are. And I know we have that discussion, or I
19 believe we have that discussion for a later time.

20 But, in my mind, these two are inexorably tied,
21 and I need some more coordination in order to deal with
22 cap and trade, absent adaptive management, because I think
23 that story that we saw earlier was somewhat compelling and
24 needs to be addressed as part of this discussion.

25 EXECUTIVE OFFICER COREY: Yes. Let me respond to

1 that, Mr. Eisenhut. Part of the direction, the discussion
2 when Dr. Balmes was talking about the study was we reached
3 out to each of the study authors, in fact, all six of
4 them. We are scheduling time to have an in-depth briefing
5 on that study.

6 Our plan is to report back to the Board in
7 November towards the end of this year, in terms of
8 adaptive management -- where we are with adaptive
9 management, the approach, any adjustments, what we've
10 learned from work, including this work that Dr. Balmes was
11 talking about, as well as some work that the Office of
12 Environmental Health Hazard assessment is doing. I think
13 Dr. Balmes mentioned they're engaged in a study looking at
14 the impacts of AB 32 from a criteria pollutant standpoint,
15 so an independent study.

16 So we see the report back to the Board towards
17 the end of this year long before the cap-and-trade
18 amendments come back, as to what those studies indicate,
19 what they suggest, where we are with adaptive management,
20 and whether that suggests some adjustments for us moving
21 forward, including the treatment of different strategies
22 in the scoping plan.

23 VICE CHAIR BERG: Supervisor Serna.

24 BOARD MEMBER SERNA: Thank you, Vice Chair Berg.

25 I hate to do this. I did have my -- I tried to

1 get my hand up as soon as I could following some of the
2 questions and exchange from Senator Florez, because I had
3 some of the similar -- I had some similar questions.

4 I'm going to dovetail a little bit off of that
5 exchange, because I want to make sure I understand how
6 this table has been set in terms of how -- we're being
7 asked to hear from staff today, and from our speakers
8 about the mechanism -- all the mechanisms that are
9 involved with cap and trade, so I want to make sure I
10 understand.

11 I guess I'm looking at it this way. What
12 is -- what is the governor involved in cap and trade that
13 gives us some sense of comfort that polluters, greenhouse
14 gas polluters, it will always experience a higher cost to
15 continue to pollute versus exercising the allowance aspect
16 of the process.

17 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
18 SAHOTA: So that goes back to the comments about how the
19 amount of allowances that are available decrease over
20 time. And so every one is going to be competing for a
21 lower amount over time, which means some people are going
22 to have to reduce their emissions.

23 Now, with cap and trade you don't necessarily
24 know where those reductions occur, you just know an
25 aggregate across the State for the covered sources those

1 reductions have to occur.

2 And then with the escalating floor price, you
3 know that if you're going to invest in something to
4 improve the efficiency on your plant, that you can do the
5 financial cost of that investment today, because you know
6 if you invest today, and you get X amount of reductions
7 that's of this value with this price moving forward.

8 And so there's signals on the financial side and
9 there's the declining cap that give you, as an industry,
10 information on what action to take and when it's best to
11 take that action. So it's that flexibility that lets you
12 have the timing of it, but it's the program with the
13 declining caps and the increasing floor price that forced
14 that action to occur at some point.

15 BOARD MEMBER SERNA: So I understand that, and I
16 appreciate, but it sounds to me like there's a huge
17 reliance on the law of averages, right? I mean, in terms
18 of your -- what I'm hearing is we don't know. We can't go
19 to one particular source emitter and say ah-ha, we've
20 taken -- we've taken -- there's an audit. We've taken
21 inventory of the cost for you to continue emitting
22 greenhouse gas emissions. We're saying industry-wide
23 there's been a smoothing, an understanding that on
24 average, at least in concept, the emissions are supposed
25 to step down because the scarcity of the allowance

1 continues to grow each year, correct?

2 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

3 SAHOTA: In aggregate across the State, yes, of the cover
4 sources.

5 BOARD MEMBER SERNA: So there is some aspect of
6 faith in this?

7 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

8 SAHOTA: There's actually annually reported greenhouse gas
9 data that let's us track what's going on at each facility
10 every year, and it's verified data. So we can actually
11 tell what's happening with the emissions at any location
12 in the State.

13 BOARD MEMBER SERNA: Okay. That's what I was
14 looking for. That's helpful.

15 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

16 SAHOTA: Yeah, so we have that. That was the MRR
17 regulations. It's that's data.

18 BOARD MEMBER SERNA: Right, but that's a very
19 important part of the answer.

20 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

21 SAHOTA: That's right, yes.

22 BOARD MEMBER SERNA: Thank you.

23 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF

24 SAHOTA: Sorry.

25 VICE CHAIR BERG: Supervisor Gioia did you have

1 another comment?

2 Great. Well, I think, Board members, if it's
3 already with you, we'll go ahead and jump ahead. We do
4 have 73 people signed up to testify. And though
5 Chairman -- Chair Nichols did leave the room, I do think
6 that given the time, that looking at the 3-minute that we
7 better set up 2½? Well, we'll -- oh, I'm hearing 2 up
8 here. Two goes so quickly. So what we're going to do is
9 we know how appreciative you are of staff.

10 (Laughter.)

11 VICE CHAIR BERG: So really let's right now just
12 give staff an applause.

13 (Applause.)

14 (Laughter.)

15 VICE CHAIR BERG: Okay. So we've just saved 30
16 seconds of testimony from every person. No thank you to
17 staff. Staff are really appreciative of you, okay?

18 (Laughter.)

19 VICE CHAIR BERG: This is your mass thank you.

20 (Laughter.)

21 VICE CHAIR BERG: And we really would appreciate,
22 because we do want to hear from everybody. And so we're
23 going to start with 2½ minutes, and then see how we can
24 do. Especially for those that are going to get
25 translated, we'll make sure you have enough time. But get

1 to your point quickly, so that we can really understand
2 with the issues are, okay?

3 All right. We've got the names up here listed.
4 We would appreciate, and what would be helpful, if you'll
5 queue yourself up. So a couple of people come in the
6 aisles who are next, so we can have the quick transition.
7 And we'll start out with Erica Morehouse.

8 MS. MOREHOUSE: Good afternoon. Thank you.
9 Erica Morehouse, senior attorney with the Environmental
10 Defense Fund. Thanks for this opportunity.

11 EDF is here -- sorry. Am I on now? Erica
12 Morehouse, senior attorney with the Environmental Defense
13 Fund. EDF is here supporting the amendments to extend the
14 Cap-and-Trade Program beyond 2020, because we think that
15 cap and trade is an important part of the California
16 climate package. It is the piece that ensures that we
17 meet the -- it places an overall emissions limit for
18 California and ensures that we don't exceed that carbon
19 budget that we've set for ourselves. And for many
20 sectors, cap and trade is the piece that has regulated
21 carbon for the first time and is placing a price on
22 emitting and polluting carbon.

23 The benefit -- let's see. So the benefits of
24 creating that reduction incentive are important, and
25 they're -- so is providing some flexibility, and a cost

1 effective way to achieve our climate goals. And yes, we
2 do have to consider health costs as we think about what's
3 costs effective.

4 And so as we've heard today and as we've known
5 for some time, there are too many communities in
6 California that face serious air quality problems. And
7 those impacts are disproportionately born, and we actually
8 have to do something about that.

9 And what we as EDF would likely like to see is an
10 inclusive set of solutions that includes the benefits of
11 cap and trade, but also allows us to address those
12 reductions in local air pollutants that definitely need to
13 happen.

14 We think it's also critical that California sets
15 the strongest cap that's feasible. And for that reason,
16 we continue to support a cap for 2021 that would be set
17 based on the expected actual emissions in 2020, rather
18 than the current proposal of the straight line down from
19 2020 to 2030. And we think that's feasible for businesses
20 to achieve.

21 We're also supporting moving forward with the
22 linkage with Ontario, as well as moving forward with,
23 although it's at an earlier stage, the -- accepting
24 sectoral offset credits first step through a linkage with
25 Acre, Brazil. And so these are complex issues. They're

1 very nuances, so we look forward to working with the
2 Board, working with the legislature, and continuing
3 dialogues with our colleagues and other stakeholders.
4 Thank you so much.

5 CHAIR NICHOLS: Thank you.

6 VICE CHAIR BERG: Thank you.

7 MS. VANDERWARKER: Good afternoon. My name is
8 Amy Vanderwarker. I'm the co-director with the California
9 Environmental Justice Alliance, a statewide coalition of
10 community based organizations. And we're here in
11 opposition to the extension of the Cap-and-Trade Program,
12 and to urge you as the Air Resources Board to actually
13 halt this process until we can have a more thoughtful and
14 fully engaging dialogue with all sectors, including the
15 environmental justice community about how to meet our 2030
16 greenhouse gas emission reduction targets.

17 The results of the report issued by Manuel
18 Pastor, Rachel Morello-Frosch, and others clearly outline
19 major environmental justice issues in the Cap-and-Trade
20 Program. There have not been localized in-State emission
21 reductions. Major greenhouse gas facilities are
22 disproportionately located in environmental justice
23 communities. And there are also serious concerns about
24 the offsets program.

25 And we would argue along with the allowances as

1 well that are creating loopholes for our largest
2 corporations in the world to continue operating facilities
3 that we know are contributing to climate change and
4 detrimental health impacts in environmental justice
5 communities.

6 These results need to be taken seriously. I know
7 you all are invested and I appreciate you discussing it.
8 But to move forward with these regulations, without a full
9 discussion about the results of this report is absolutely
10 premature.

11 It's simply not sufficient to relegate the
12 impacts of cap -- the disproportionate impacts of cap and
13 trade to the adaptive management plan that is not set up
14 to lead to direct program changes as a result of any
15 disproportionate impacts that are highlighted. They're
16 absolutely critical to the health of environmental justice
17 communities.

18 Many of you have already discussed concerns about
19 the data issues that the report also found, the challenges
20 linking greenhouse emissions to air -- criteria air
21 pollutants. I strongly encourage you all to take action
22 to that. It sounds like you're moving in that direction.

23 However, there are other data issues that the
24 report process highlighted. Releasing data on trading and
25 allowances is absolutely critical. And I would argue it

1 is absolutely critical to addressing more accurately the
2 questions that Senator Florez and Supervisor Serna were
3 relating about the efficacy of the allowance -- the
4 allowances in particular.

5 While, yes, there are facility reporting on low
6 emissions, we do not know how those facilities right now
7 are meeting their emission requirements. They can be and
8 the research is starting to show that they are offsetting
9 the vast majority of those emission reductions. And that
10 does not help California overall meet our 2030 targets,
11 and it certainly does not help environmental justice
12 communities who are located next to those facilities.

13 AB 197, as already mentioned -- just one more --
14 a few comments --

15 VICE CHAIR BERG: Not if you -- one more
16 sentence, please.

17 MS. VANDERWARKER: Sure. AB 197 will help
18 address these data issues. But the piece of that bill
19 that is so critical, and also is -- indicates the
20 premature nature of these amendments right now is the
21 local -- the direct emission reductions. That is
22 absolutely critical for the Air Resources Board to tackle
23 urgently, and it is premature to amend and extend the
24 Cap-and-Trade Program at this time.

25 VICE CHAIR BERG: Thank you very much.

1 MS. VANDERWARKER: Thank you.

2 MR. MENDEZ: Hi. My name is Francisco Mendez. I
3 live on southwest Fresno. I am living on the most
4 polluted areas. I am here against the contaminants. We
5 have to use less fertilizers. If you use fertilizers had
6 to be organic. Next to my house apart of the poisoned air
7 is Foster Farms.

8 And there is Darling. Company make food for
9 dogs. Next to my house, they park their big trucks with
10 the smell. It's not perfume. It smells. And I am
11 against the cap and trade too. They're getting free
12 passes like free credits. But if they don't use them,
13 they're going to sell them. I wish to have my company and
14 I can buy it and make money, but these places are making
15 money against our health.

16 I've been working in the dairy farm milking cows.
17 I work at the dairy for about 15 years. I got sick very
18 much. I went to the doctor. Doctor -- 2 or 3 doctors
19 gave me so much medicine, and I have to stop taking the
20 medicine because I get worse.

21 They say I have to live less time. About that, I
22 had to use the CPAP machine during the night to breathe.
23 And this is a product so much making us -- it's around on
24 our areas, Foster Farms, Darling. And we have to cut the
25 emissions about the use of gasoline. We have to make --

1 build more parks, green areas, plant more trees, very
2 dusty, very bad transportation.

3 I am disabled. I have to use Handy Ride for
4 disabled people. Well, Handy Ride sometimes take 2 hours,
5 the same time it take the city bus to get to my place. I
6 have to go to City College. One class a day. Fresno
7 State had to go over to the gym. Had to go to the doctor,
8 my appointments. Take me 1 or 2 appointments for one day
9 for me to complete. And this very much time without
10 driving.

11 So we need more transportation and less driving.
12 And we need to extend the SB 32 to help our environment,
13 less people in the emergency room, and California will go
14 up with the budget.

15 Thank you.

16 CHAIR NICHOLS: Perfect. Thank you. Well done.
17 Well done.

18 MS. LAZEROW: Good afternoon. My name is Shana
19 Lazerow with Communities for a Better Environment. I want
20 to thank Mr. Mendez and all of the community members who
21 took whatever forms of transportation they could to get
22 here today. They are really the people who you need to
23 hear from.

24 Communities for a Better Environment was standing
25 here in 2008 as well. And we were saying that you had the

1 option of cap and trade, but you did not have to take that
2 option. And we were asking you very clearly not to.

3 And since then, our communities where we organize
4 in southeast L.A., in Wilmington, in Richmond, and in East
5 Oakland have been living with the decisions that you made.

6 Now, the legislature is instructing you to
7 regulate greenhouse gas emissions with -- even more
8 assiduously than you have been doing since 2008, and they
9 have not instruct you to continue a Cap-and-Trade Program.
10 In fact, they've instructed you to pay more attention to
11 direct emissions. That is the opposite of trading.

12 I appreciated the summary of the new Cushing
13 report before the break. I wanted to highlight the
14 specific impacts of using offsets. And I specifically
15 wanted to look at the electricity sector. You're going to
16 hear from other people about the refineries in California,
17 and in the communities where we organize.

18 The electricity sector is among the top 10 users
19 of offsets. And that includes Calpine, that includes
20 Southern California Edison, that includes NRG, for their
21 existing electricity generation units for the power plants
22 that are keeping our lights on today. SMUD keeps our
23 lights on here. But for the places where many of our
24 members live, we're seeing more and more reliance on
25 peaking power plants as we are integrating renewables into

1 our grid. And those peakers tend to be the most polluting
2 sources of electricity, and they are not the best way to
3 smooth out the grid. There is better technology.

4 The only reason that it is not in use today is
5 because it is more economical to keep running the dirty
6 peakers. And that is what cap and trade allows to happen.
7 And if you do not institute technology forcing --

8 CHAIR NICHOLS: Time --

9 MS. LAZEROW: -- regulation, it will continue to
10 happen.

11 Thank you.

12 CHAIR NICHOLS: Thank you.

13 MS. GRACIA: Good afternoon. My name is Laura
14 Gracia. I am the Richmond youth organizer with
15 Communities for a Better Environment.

16 Richmond youth have been exposed to the pollution
17 from the Chevron refinery their whole lives. Some of them
18 have attended Lincoln Elementary School, which is only --
19 which is in the impact zone, move on to Lovonya DeJean
20 Middle School, which is only a little further, and
21 graduate from Richmond High, which is also near the
22 refinery.

23 Cap and trade ignores the reality that location
24 matters. Pollution trading let's big polluters, like
25 Chevron, which is actually the largest point source of

1 pollution in the area, off the hook. It let's them buy
2 cheap credits or bank credits they get for free, so they
3 can pollute instead of cleaning up themselves.

4 Studies have found that children in Richmond are
5 twice as likely to have asthma as compared to children in
6 the rest of California. In addition, the city has also --
7 the city also has higher rates of low birth weight --
8 lower -- low birth-weight babies, cancer, and respiratory
9 illnesses.

10 Chevron is also the single largest user of
11 offsets. And this is a problem considering the tremendous
12 health implications of living and working near a refinery.
13 Richmond and its youth want a transformation. We want a
14 State plan that cleans up State air and local air. We
15 want to actively work towards slowing down climate change,
16 and cap and trade doesn't do this.

17 We want a just transition. A just transition
18 that builds a green economy, will create and maintain
19 local jobs via community-owned renewable energy. And this
20 shift will ensure that revenue stays within the community
21 and supports the community.

22 Transformation such as just transition is
23 empowering, equitable, creates resilient jobs, improves
24 local economy, and does not put residents health in
25 jeopardy. Can and trade doesn't do this. We urge the

1 Board to take its residents well-being into consideration
2 and support a just transition to clean energy.

3 Yes, cap, and no trade.

4 Thank you.

5 CHAIR NICHOLS: Thank you.

6 MS. LOPEZ-LEDESMA: Good afternoon, Chair Nichols
7 and Board members. Yvette Lopez-Ledesma, Deputy Director
8 at Pacoima Beautiful.

9 I'm here today to ask that the ARB consider
10 taking a different approach to reducing greenhouse gases.
11 Cap and trade is not working as intended. In communities
12 like Pacoima, we have to see any sustainable benefits from
13 the market-based approach. The health and quality of life
14 of people in Pacoima and many communities like Pacoima
15 cannot depend on trade and auction outcomes.

16 Organizations like ours and many here today want
17 to work with the ARB to create a comprehensive hybrid
18 strategy that gets us to our goals, while providing
19 really, sustainable, health, job, housing, and greening
20 outcomes.

21 Thank you.

22 MR. NEWELL: Good afternoon, Madam Chair, members
23 of the Board. My name is Brent Newell. I'm the legal
24 director at the Center for Race, Poverty and the
25 Environment. We submitted comments on behalf of 30

1 environmental justice and environmental groups. So I
2 won't restate those, except one of the most important,
3 which Madam Chair, I know you don't want to talk about
4 this point. But it's the fact that this Board does not
5 have the legal authority to proceed with a cap and trade
6 extension after 2020.

7 During the AB 32 process, a section was inserted
8 into the bill, section 38562 subsection (c), of the Health
9 and Safety Code that limited the Board's authority during
10 a specific time period to implement cap and trade. And
11 that time period ends in 2020. That provision hasn't been
12 amended. The Governor has tried twice, once in 2015 and
13 again in 2016 to get that provision changed.

14 Senate Bill 32 and Assembly Bill 197 did not
15 change that either. This Board does not have the
16 authority to do this rule-making. That's the plain and
17 simple fact. And I know you don't want to talk about it,
18 but it's the truth.

19 Moreover, AB 197 specifically directed this Board
20 to prioritize direct emissions reductions. Nothing in
21 this rule-making does that. Of course, that law just was
22 signed, and this proposed rule came out before the law was
23 signed. However, staff didn't mention this thing at all
24 during its presentation. They haven't discussed that
25 point at all.

1 You have to prioritize direct reductions, even
2 assuming cap and trade gets extended. There's something
3 fundamentally wrong with the way that the Board is moving
4 forward -- my timer isn't counting down, does that mean I
5 have unlimited time?

6 (Laughter.)

7 CHAIR NICHOLS: Please look at that.

8 MR. NEWELL: All right.

9 (Laughter.)

10 MR. NEWELL: There's something fundamentally
11 wrong with this process. The scoping plan process is
12 going forward, yet this Board is moving forward with cap
13 and trade as if that is exactly what it wants to do.

14 And finally, for many now, the revenue generated
15 by this program is the reason to continue its existence.
16 There is a far better way to price carbon than
17 cap-and-trade auction revenue. Direct carbon pricing is
18 what we support --

19 CHAIR NICHOLS: Thank you. Your time is up.

20 MR. NEWELL: -- combined with direct emissions
21 reduction as the law requires.

22 CHAIR NICHOLS: We heard you.

23 MR. NEWELL: That is the way --

24 CHAIR NICHOLS: Thank you. Thank you.

25 MR. NEWELL: -- to implement this program.

1 CHAIR NICHOLS: Thank you.

2 MS. SULLIVAN: Good afternoon again, Chair
3 Nichols and Board and staff. I won't thank them.

4 My name again is Shelly Sullivan representing the
5 Climate Change Policy Coalition representing businesses --
6 business entities and taxpayer groups.

7 And we wanted to thank you for the opportunity,
8 and we've also written -- submitted written comments that
9 go into more depth about this current cap-and-trade
10 amendment regulation that we're talking about. I do have
11 a couple of items that we would like to share with you
12 that we think would help improve or move the current
13 amendments along further that you might want to consider.

14 The first one is it was regarding slide 6, CCPC
15 urges the Board and staff to expand industry -- the
16 industry assistance factor of the second compliance period
17 to the third compliance period to protect regulated
18 communities, and to keep costs lower in the program.

19 Another suggestion we have is that we're
20 concerned about the proposed provision to transfer unsold
21 allowances into the APCR. We believe this could lead to a
22 very large APCR, which would decrease liquidity in the
23 overall market. And so ARB should continue to return
24 unsold allowances back to the auction.

25 And finally another suggestion that we have,

1 which we think will really help improve everybody to work
2 on a more collaborative basis is that we would encourage
3 ARB and staff to establish an industrial advisory council
4 very similar to the environmental advisory council to meet
5 on a regular basis to evaluate and provide feedback to ARB
6 staff during the regulatory development process in a
7 formal capacity. That way us, you know, regulated
8 communities would be able to come in and speak to staff
9 members and provide more collaborative feedback, I think,
10 on the rule-making.

11 And that's it. Thank you for your time, and we
12 look forward to working with you in the future.

13 MS. PARINO: Good afternoon. Before my time
14 starts, I actually have a procedural question. We have
15 community members who got up at like 5:00 o'clock this
16 morning to be here early to sign -- 3:00 -- to be here
17 early to sign up, so that they could speak and then make
18 their way to that long way home. And I know for a fact
19 that their names were in before mine, because I turned it
20 in, and mine was at the bottom of that list, and I don't
21 see them there at all. And I need to make sure that they
22 get to say their peace, because they have been here for
23 a -- I mean, 3:00 o'clock in the morning, and then they
24 still have a 4 or 5-hour ride back.

25 So I just -- I need to -- I need to make sure

1 that that happens. And I'm not sure how this was
2 arranged, but I do know for a fact that they should be at
3 least near me or before me, and I don't see any of the
4 names at all.

5 CHAIR NICHOLS: Is this all the people in the
6 green T-shirts?

7 MS. PARINO: Yes.

8 CHAIR NICHOLS: I mean, are they -- are all those
9 people that you --

10 MS. PARINO: They're not all speaking, but they
11 are --

12 CHAIR NICHOLS: Yes.

13 MR. PARINO: -- but there are a handful of the
14 residents who are speaking.

15 CHAIR NICHOLS: Could I see the hands of how many
16 people there are who are planning to speak of the green
17 T-shirt group? 1, 2, 3, 4, 5, 6, 7? Are you -- not a
18 green T-shirt, but are you part of that group? Yes, no
19 yes.

20 Okay. Okay. So you're talking about 8 people,
21 as I see it from here.

22 BOARD MEMBER DE LA TORRE: There's more.

23 CHAIR NICHOLS: Pardon me?

24 BOARD MEMBER DE LA TORRE: There's 4 more.

25 CHAIR NICHOLS: And then there's others on the

1 other pages. Yeah. Do you all want to speak at the same
2 time? I mean, one by one, do you all want to get up
3 together? It's okay with me. Let's just do it. All
4 right. Come on. Come on down. Yeah, let's just do it.

5 BOARD CLERK JENSEN: Madam Chair?

6 Madam Chair?

7 CHAIR NICHOLS: Yes.

8 BOARD CLERK JENSEN: Can I just ask, be sure to
9 please say your name when you come to the podium, so we
10 can make sure that we get the witnesses noted correctly.

11 MR. PARINO: And there will be translation needed

12 CHAIR NICHOLS: Yeah, for somebody at least.

13 BOARD CLERK JENSEN: They're coming down.

14 CHAIR NICHOLS: The translator is here.

15 There is a translator. If we had known this is
16 what you wanted to do before, we could have -- we would
17 have organized it. We've done this before. So, sorry
18 that we were not aware.

19 MS. PARINO: So I will start off, I guess,
20 quickly. So I'm Sofia Parino with the Center on Race,
21 Poverty, and the Environment. And I'm here today, as I
22 was in 2008, urging the Board not to move forward with cap
23 and trade.

24 Basically, it's as simple as the fact that cap
25 and trade ignores the fact that location does matter.

1 Climate change is global, but there are real localized
2 health issues with how we decide to move forward with how
3 we're dealing with greenhouse gas emissions. We cannot
4 ignore the data that has come out from the report. It is
5 clear that pollution trading is allowing big polluters
6 that are concentrated in environmental justice communities
7 off the hook with allowances and offsets.

8 And what -- what I'm here, and I'm just going to
9 say quickly, so that there's time for everyone, is that
10 I'm urging the Board to really take a look at that data,
11 take a look at that report from Pastor and others. And
12 while that might be some shocking information, and new
13 information to some of you, it is sadly not new
14 information to our communities. It is what they knew in
15 2008, and it is what has been happening since then.

16 And now is not the time to close our eyes, to
17 close our ears, to, you know, dig in our heels, because we
18 don't want to hear this information. Now is the time to
19 admit that there were mistakes, and to learn from them,
20 and to continue down a path that's going to get real
21 reductions. There is no legitimate reason to continue
22 with cap and trade.

23 MR. FLOREZ: Juan Florez, resident of the Delano,
24 California, Kern County.

25 In low-income communities and communities of

1 color, we know one truth about cap and trade, it does not
2 work and it is not working for us.

3 The reductions that we see of greenhouse gas
4 emissions come from offsets outside the State, and in some
5 cases, outside of the country. If we truly want to reduce
6 greenhouse gases, we need to invest in clean renewable
7 energy, on our most impacted communities on the State of
8 California. Remember, location, location, location.

9 It is true that California has set up the example
10 to fight climate change, but we also have to remember the
11 airplane rules help yourself first, and then help your
12 neighbor.

13 Our communities are in extreme health at this
14 moment to better help their environment and their health.
15 In my county, this month alone, our children had spent
16 about 40 percent of their time inside of their classrooms
17 because of the poor air quality. We're not receiving any
18 benefits of cap and trade. And if you think we are, let
19 us know, because we're not seeing them.

20 There's people benefiting from this, and most of
21 the times it's the industry and their pockets, but not the
22 health and not the children that are in the emergency room
23 almost on a daily basis because of their asthma attacks.

24 Thank you.

25 MS. VASQUEZ: Good afternoon. My name is Sandra

1 Vasquez, and I am from the City of Fresno.

2 So far cap and trade has not been working. We no
3 longer want pollution trading. My community health is
4 being impacted because of all the pollution that
5 industries located near homes are bringing. Pollution
6 trading allows big polluters by cheap credits or banked
7 credits they got for free so they can pollute instead of
8 cleaning up themselves.

9 Oil refineries, power plants, and oil
10 productions, and other polluters concentrated in
11 communities of color, and low-income communities have
12 bought offsets like planting forests out of State instead
13 of cleaning up in California.

14 Another important point I would like to make is
15 that I believe dairies should be regulated, since my
16 community who are low income and people of color are the
17 most affected. We deserve every right to be in a healthy
18 living environment.

19 Thank you.

20 CHAIR NICHOLS: Thank you. Excuse me. Would you
21 mind just going to the clerk and giving her your name,
22 because I don't have it on the list that we have. And we
23 want to make sure that we have everybody correct in the
24 record. So just -- if you wouldn't mind just walking over
25 there. Thank you so much.

1 MS. PEREZ(through interpreter): Good afternoon,
2 esteemed members of the Board. My name is Gema Perez, and
3 I come from Bakersfield. I come from the County of Kern,
4 one of the most contaminated in the United States. That's
5 why I'm concerned about the industries that are in the cap
6 and trade are found in low-income communities. And those
7 communities are usually people of color. Personally, I
8 suffer from asthma. I don't have medical insurance. At
9 times, I have to make payment plans, and I am surprised
10 that when the auctions are made for carbon dioxide tons,
11 it costs \$12, an exhaler/an inhaler will be \$60 -- cost me
12 \$60.

13 I would like there to be programs that would
14 reduce contamination, such as solar panels and electric
15 cars.

16 Thank you for your time.

17 MS. HERRERA: Good evening, members of the Board.
18 My name is Gloria Herrera and I come from Delano,
19 California in Kern County.

20 And some of you are familiar with our area. And
21 you can see we talk about people of color or low-income
22 communities that get affected mostly of these
23 contaminations, but actually all of the upper class people
24 get sick too.

25 Because if it's not in the vegetables, it's in

1 the fruit and the air too, so we all breathe the air. And
2 we have to realize and conscious that we, the people,
3 contaminating the whole world. The colored people,
4 low-income people get sick right away, and fast impact,
5 crash course, I would say.

6 And I could see -- no cap and trade began 2020,
7 instead we need direct pollution cuts in our communities
8 and we need to just transition to clean energy just -- and
9 cap no, and trade.

10 Cap trade ignores the reality that locations
11 matter. Pollution and trading let's that begin polluters
12 that are concentrated in environmental justice communities
13 off the hook. It lets them buy cheap credits or bank
14 credits they got for free, so they can pollute and instead
15 of cleaning up their own mess.

16 Oil refineries, power plants, oil production, and
17 other polluters Concentrated in communities of color and
18 low-income communities that have offsets like planting
19 forests out of state instead of cleaning in California.

20 And I hope you're listening to all this. It's
21 time that you follow the law or the rules. We need your
22 help. We are here. Like it was mentioned a little while
23 ago, we travel along ways, because I think we are the
24 people that feel more of the impact because we are the
25 ones that have more children with asthma breathing

1 problems, cancer, where you see little kids maybe just
2 born three months hook up to this big old breathing
3 machines, bloody nose, and it comes for all those
4 contaminations

5 So listen to more to the people there is affected
6 than to these big industries. They all -- they're up
7 there to make money -- more money. They're already rich
8 enough. Thank you.

9 MS. MARQUEZ(through interpreter): Good
10 afternoon. Thank you for having us. My name is Anabel
11 Marquez.

12 MS. FERNANDEZ: My name is Eloisa Fernandez.

13 MS. MARQUEZ(through interpreter): We come from
14 the City of Shafter Eloisa Fernandez and Anabel
15 Vasquez[sic].

16 There are better options than can and trade to
17 reduce greenhouse gases that hurt our health. We know
18 that these other methods work, because clean energy is
19 growing, but we need more support. Instead of blocking
20 the growth of clean energy, when you permit fossil fuel
21 energy plants, we need to support the growth of clean
22 energy, because it's good for our communities.

23 The plan for clean energy says that the State's
24 says the states may only approve programs that have been
25 authorized for them, but ARB does not have the authority

1 to extend it for beyond 2020, especially after the law
2 that opposed it during these two years.

3 This Board should allow more deeper analysis for
4 the cleaning of our -- of the cleaning of our environment,
5 of our communities. I'm surprised by the thousands of
6 dollars that are explained by the gentlemen, but I would
7 like you to go to Memorial Hospital in San Joaquin, and
8 you look at the people that are outside, and there is no
9 place to put an IV, and they have them sitting down,
10 because there aren't any beds available.

11 It's unjust that some gain and some lose.
12 There's a fever warning fever of the valley. Aside from
13 asthma, there's also bronchitis that the children suffer
14 and the senior citizens. I know here it's very
15 comfortable in your offices, but if you work in the fields
16 or in the streets, after 8:00 PM, you can't breathe.

17 Children are not allowed to go out and play in
18 their yards, because here and 100 meters from here there
19 are petroleum puddles. Who can say that we're eating good
20 pistachios when the petroleum puddles are among the trees,
21 pistachio trees.

22 I'm sorry if somebody -- if we sometimes say
23 things, but it's just enough. It's too much time to try
24 to extend it once again. How many people have to die or
25 get sick so that you can open your eyes?

1 Thank you. Good afternoon.

2 MS. TRUJILLO(through interpreter): Good
3 afternoon. My name is Felipa Trujillo and I come from
4 Shafter community. The trade of contamination is the
5 wrong way in which California reaches the -- meets the
6 requirements -- the federal requirements for the plan of
7 clean energy.

8 We need reductions of direct contamination and a
9 just transition of energy in our communities. Please, we
10 don't want you to negotiate with our health. It is
11 something that has no price. The clean energy plan
12 requires that communities of environmental justice will
13 get involved in a positive way.

14 That means that the opinions of community must be
15 taken into consideration when decisions are being made.
16 Cap and trade was adopted several years ago, and it does
17 not have the voice of the most affected communities.

18 We need a true voice for us that will tell you
19 how energy plants must be regulated, and also have better
20 quality of air. We would like to have solar panels,
21 instead of petroleum puddles. Thank you for your help.

22 MS. RUIZ(through interpreter): Okay. Good
23 afternoon. My name is Rosalva Ruiz an Estela Garcia and
24 we come from the City of Arvin.

25 Cap and trade ignores the reality that

1 locality -- that location does matter. The trade of
2 contamination leaves the great contaminators, great
3 polluters who are found in the communities of
4 environmental justice without any responsibility. They
5 don't take any responsibility. It allows them to buy
6 credits at a very cheap rate or save credits that they
7 obtained freely, so they continue to pollute instead of
8 cleaning up their dirt -- their mess.

9 The petroleum refineries, the energy plants, the
10 petroleum producers and other polluters concentrated in
11 communities of color and low income have bought the right
12 compensations, okay, such as the reforestation of the
13 forests outside of the State, instead of cleaning
14 California.

15 Thank you.

16 MS. GARCIA(through interpreter): Thank you for
17 your time and I hope that you will listen to the people
18 who are now suffering.

19 MS. STANO: Good afternoon. My name is Madeline
20 Stano, and I'm an attorney with the Center on Race,
21 Poverty and the Environment. Thank you for your time.
22 I'm here today to speak against pollution trading, because
23 pollution trading, as many have mentioned, has an
24 impermissible racially discriminatory impact on
25 California's communities of Color, who have been long

1 overburdened by pollution, not just air toxics like we're
2 talking today, but always other forms of pollution. So
3 please take into consideration the cumulative impacts that
4 these communities face.

5 Pollution trading allows the State's largest
6 emitters, who are already concentrated disproportionately
7 in communities of color, to buy cheap credits. As Gema
8 mentioned, it costs 5 times the amount to buy an Albuterol
9 inhaler than it does to buy a ton of carbon.

10 A new report that folks have mentioned from the
11 California Environmental Justice Alliance shows that while
12 overall greenhouse gas emissions are down from peak in
13 2001, many sectors, like oil and gas, which many folks
14 have spoken about already, greenhouse gas emissions are
15 actually up under the trading program.

16 Communities within 2.5 miles of a greenhouse gas
17 emitting facility have a 22 percent higher proportion of
18 people of color, and a 21 percent higher proportion of low
19 income people. Respectfully, the Board should reject
20 pollution trading, because it continues to exacerbate the
21 legacy pollution in low income and communities of color.

22 All Californians deserve and are entitled to
23 clean air. And our climate policy must reach and
24 prioritize those already most impacted by pollution.

25 Thank for your time and consideration.

1 MS. FARRELL: Good afternoon. My name is
2 Caroline Farrell and I'm the executive director at the
3 Center on Race, Poverty, and the Environment. I live in
4 Bakersfield and we just had some very unhealthy air. So
5 I'm happy to be up here, where I can breathe comfortably.

6 I wanted to just highlight a couple of the
7 Cushing report's findings, particularly around
8 co-pollutants. The first compliance period reporting data
9 show that cement in-State electricity generation and oil
10 and gas production and supplies, and hydrogen plant
11 sectors have increased greenhouse gas emissions over their
12 baseline period within California.

13 And while GHG emissions are not of a particular
14 health concern, what is of concern is that there's a
15 correlation, as the report finds, between particulate
16 matter and greenhouse gas emissions in the largest
17 facilities.

18 And that is a health concern for localized
19 communities, particularly the low-income communities, and
20 communities of color that are at the fence line of those
21 facilities.

22 And also, unfortunately not surprising, but the
23 correlation between where those facilities are sited and
24 the top 20 percent of CalEnviroScreen communities is also
25 something for the Board to look at, because our goal is to

1 decrease the number of impacted communities, not increase
2 them with localized pollution.

3 And so I think the correlation between the
4 CalEnviroScreen communities and the facilities that are
5 under the Cap-and-Trade Program is also really important.

6 I think there are many tools available to
7 California to look at what a holistic just transition
8 would be for these communities. CalEnviroScreen is one,
9 but there's a whole host of things that the State is
10 looking at.

11 SB 32 and AB 197 provides a framework. And I
12 think Diane's question to the Board is very well taken is
13 how are these being prioritized, how are they being
14 integrated, and how are we creating a plan that moves
15 everyone in California forward? Particularly the
16 communities that have historically been hit first and
17 worst by the fossil fuel economy, how do we make sure
18 they're at the front of the line as we transition to a new
19 community -- a new California, new fuel, new energy, new
20 ways of producing food that benefit everybody.

21 Thank you.

22 MS. DIETRICK: Jan Dietrick from Ventura,
23 California. I run a small business there, Rincon-Vitova
24 Insectaries to -- I have -- I enjoy white privilege, but I
25 still -- to get to the mailbox from my house, I walk by

1 the most productive oil well in the ventura oil field in
2 view of about a dozen new wells.

3 I'm a health ambassador with Physicians for
4 Social Responsibility, and as a master of public health, I
5 can speak about the health risks of bad air and climate
6 change, but I want to talk to you about my perspective as
7 a small business person. Why am I opposed to the
8 extension of the cap and trade past 2020? It is because
9 it doesn't sufficiently require polluters to absorb the
10 full social and environmental cost that are associated
11 with commodity production.

12 An example that Shana Lazerow gave of the
13 electricity sector is a big case-in-point with the
14 out-of-state offsets. And that continues to enable the
15 pollution of low income and communities of color. Another
16 example is the price of the carbon, \$10 to \$13 a ton is
17 absurdly low.

18 Professor Drew Shindell documented the cost of
19 CO2 at \$110 a ton. And I really appreciate Supervisor
20 Serna's comment that that just doesn't force the way it's
21 being done for all polluters to pay their costs.

22 My business is growing beneficial insects for
23 biological pest control. We pay taxes. We like to pay
24 taxes, so that we have a street next to our building, so
25 that you UPS has an airport to deliver my product, so

1 that, you know, there's a bus top there for my employees,
2 most of who ride the bus or walk or ride a bicycle.

3 All of these things that we promote in our
4 business that we're trying to make carbon neutral could
5 have done it a lot faster with better policy.

6 Our taxing system absorbs many, but not all, of
7 the costs of production. I should enjoy a more
8 comprehensive tax that includes all greenhouse gas
9 polluters.

10 CHAIR NICHOLS: Thank you.

11 MR. WHITEHURST: Hello. My name is Ron
12 Whitehurst and my wife and I run Rincon-Vitova Insectaries
13 located in the oil field in Ventura County. We grow
14 beneficial insects for biological pest control. I'm a
15 registered pest control advisor. I'm a health ambassador
16 for PSRLA. I'm a member of the Ventura County Climate
17 Hub, and the Holistic Chamber of Commerce.

18 I oppose cap and trade, because it's an
19 ecological and economic shell game. Viewing with a broad
20 perspective, we must have a federal price on carbon. That
21 trigger will -- that will trigger comparable national
22 carbon pricing around the world.

23 A carbon tax works better, because trading
24 systems are easy to scan, which we see that that's what
25 has happened. In India, for instance, will be forced to

1 have an effective carbon pricing mechanism in order to
2 sell us their stuff. We want to be a model for countries
3 like India.

4 A simple transparent policy instead of one that
5 costs a great deal, takes years to set up, and does not
6 bring down emissions as hoped, and allows toxic hot spots
7 near poor people from a pay-to-pollute policy.

8 The California legislature passed a resolution
9 urging Congress to enact a revenue neutral carbon tax. I
10 urge the ARB to consider a similar carbon tax. California
11 is accumulating revenue for investments in technology and
12 environmental justice, because politically we don't have
13 to have a system that is revenue neutral. However, the
14 economic impacts of a revenue neutral system warrants
15 study.

16 Our carbon fee and dividend is an economic
17 stimulus that provides comprehensive economic production
18 for more than half of the population.

19 So as you develop a program that protects
20 environmental justice communities, I'm confident that a
21 federal carbon fee and dividend will be operating to
22 protect the poorest of the poor.

23 Thank you for your time.

24 MR. SHUMAN: Greetings. My name is Todd Shuman.
25 I live in Camarillo, California. I work as a teacher and

1 as an analyst for a group called Wasteful Unreasonable
2 Methane Uprising. I'm going to put on my sixth eye, so
3 I'm less incoherent.

4 I am opposed to an extension of the cap-and-trade
5 beyond 2020. Mostly I'm opposed to the trade part of the
6 equation. I'm fine with caps that become increasingly
7 more restrictive over time and which apply to all sources
8 of pollutant emissions. I believe that the trade part of
9 the equation has undermined the effectiveness of the whole
10 system. Modifying pollution as an allowance and allowing
11 market exchanges of carbon credits has resulted in
12 numerous unintended consequences.

13 It has contributed to a substantial utility
14 related leakage of greenhouse gases to other states. It
15 has resulted in continuing and substantial localized air
16 pollution in poor communities of color.

17 It has given rise to a carbon emission monetary
18 valuation that's way below the actual most -- the actual
19 cost of carbon-related emissions to the broader community,
20 both human and non-human alike.

21 I'm especially concerned about how the trade
22 provision kind of prioritizes market transactions over
23 science based standards. Where I see this most
24 prominently concerns offsets. Offsets that involve
25 methane. Methane is increasingly given higher global

1 warming potentials by the inter -- by the scientific
2 community, and they need to be incorporated in offsets, so
3 that the offsets are honest about what is being -- what is
4 actually happening with regard to greenhouse gas
5 elimination, and we're not seeing that.

6 The offsets that are produced by the American
7 Carbon Register, they continue to use very outdated, very
8 long-time interval methane global warming potentials that
9 distort the whole process and basically undervalue and
10 de-value the actual impacts that methane is causing on the
11 environment.

12 So this is the kind of thing -- and why does this
13 happen? It's because of fungibility. They don't want to
14 disrupt. The American Carbon Registry does not want to
15 modify its protocols, because that would affect the
16 fungibility of carbon credit trading that takes place in
17 the market. They basically are prioritizing a market
18 value over what should be there.

19 So in short, I'll be -- quickly. We should
20 replace the system with one that retains caps and replaces
21 trade with taxes on carbon dioxide and methane.

22 Thank you.

23 MS. GOROSPE: Good afternoon. My name is Valerie
24 Gorospe. And I am a community organizer with the Center
25 on Race, Poverty, and the Environment.

1 A first grader by the name of Joshua
2 Ceja[phonetic) was really excited to talk to his mom after
3 school this week, because that day when she picked him up
4 school, he got to tell her that his class, and the rest of
5 his school, got to play outside for the first time in 2
6 days.

7 In Delano and the San Joaquin Valley, we've had
8 major air alerts. We've been at level 5 color purple for
9 the schools that still use the colored flags, and it's
10 been dangerous to be outside.

11 We had a couple of schools in the Bakersfield
12 City School District who handed out masks to their
13 students. There are several pictures of -- on social
14 media all over from kids in Bakersfield that are walking
15 home with masks on because of our air quality being
16 dangerously high.

17 And we just started school. We usually start
18 school earlier than a lot of other schools in -- around
19 the United States. And with our school supplies, with my
20 own children's school supplies, with backpacks, binders,
21 pencils, binder paper, school clothes, shoes, we are
22 adding to the process of going back to school, inhalers,
23 doctor's forms, physician's forms that the school needs so
24 that our kids can have their inhalers while they're at
25 school and when they go away for school activities, like

1 my daughter.

2 Speaking of my daughter, we had a conversation
3 the other day, her and her friend and I, about expressing
4 opinions. And when you're going to express your opinion
5 and make your case about something, it's stronger when you
6 back it up with facts. It's great to share personal
7 experiences, but you've got to back it up with facts.
8 This is what I was trying to relate to my daughter and her
9 friend.

10 And you have evidence, you have a strong research
11 study, you have years of research that shows why trading
12 is not the best route. And you had community members
13 years ago who urged you, pleaded with you that this was
14 not the way to go, to put the health of their children, to
15 put the health of their families and their communities
16 before trading. And you had the urging of the community
17 members, but not just that, but now you have these really
18 great research studies -- let me just finish this one
19 sentence.

20 So if you move forward with this -- with this
21 trading, you're basically ignoring the people. You're
22 ignoring the research, you're ignoring the data, and
23 you're ignoring the better alternatives.

24 Thank you.

25 MR. MARTINEZ: I haven't started yet.

1 (Laughter.)

2 MR. MARTINEZ: Hold on. It's only five pages.

3 Good afternoon, Madam Chair, Board members. Lupe
4 Martinez with CRPE also. But I come from Delano, and I
5 work in Tulare County and Kern County. And I see that
6 everybody has pretty much covered a lot of -- a lot of
7 ground. I want to be very specific on the communities
8 that I -- where I have friends, family members that live
9 in these rural communities that are taking this pretty
10 difficult. It's serious. The impacts are hard in such
11 communities like Allensworth, Teviston, Ducor, all of
12 these small communities that are very rural communities
13 where they're seeing the impacts of what's taking place
14 with cap and trade, not giving them the benefits, and
15 giving us the benefits in these communities.

16 These communities -- a lot of these communities
17 are suffering from, of course, as we know right now, the
18 drought. And so we know that if we continue to
19 contaminate our atmosphere, and we continue to contaminate
20 our earth, it's going to get worse, and we're seeing it.
21 And so talking about facts, it's very, very clear. It is
22 getting warmer. It is getting hotter.

23 In my time when I was a farmworker, and I don't
24 recall the climate being as hot. It was hot, but not to
25 the point where it is today, where we have people who are

1 dying because of heat-related issues.

2 And so when I talk about these communities that
3 are suffering from all of these things, some of them are
4 having difficulty where they don't even have natural gas
5 in these communities. So they have to deal with propane
6 to heat their homes, and it's coming. And most of these
7 homes have to -- I mean, most families have to pay
8 anywhere from \$400 to \$600 a month for propane gas to heat
9 it up.

10 Then the question becomes, how do we get gas to
11 the communities. But is that the best thing to do is to
12 get natural gas into the communities or is it about solar?
13 And it's a Catch 22, how do you get solar into these
14 communities that don't have infrastructure, that don't
15 have the way of getting these monies or monies from
16 anywhere, whether it's from the -- oh, it is over -- to
17 these communities. So the impact is not just the jobs and
18 the climate, but it's also the health of our children who
19 are the ones who have the bigger impact, their health.

20 Thank you.

21 CHAIR NICHOLS: Thank you.

22 MR. MARTINEZ: I'm done.

23 CHAIR NICHOLS: Okay. That was a very effective
24 and moving set of presentations. I want to thank all of
25 you for coming. I understand what it's like to get up

1 very early in the morning to come to a meeting, because
2 even though I get to fly up here, I still have to get up
3 very early in the morning to get the plane. And I know
4 you're probably tired. Of course, you're welcome to stay,
5 and listen to all the rest. But if you choose to go, we
6 just want to say now that we appreciate you coming. So
7 thank you.

8 I think we should probably listen to the rest of
9 the people who also signed up and are waiting. So --

10 BOARD MEMBER GIOIA: Can I just make an
11 observation --

12 CHAIR NICHOLS: Yes, you may.

13 BOARD MEMBER GIOIA: -- before maybe some folks
14 leave.

15 CHAIR NICHOLS: Yes.

16 BOARD MEMBER GIOIA: If you're going to stay,
17 I'll keep my comments at the end. If you're leaving, I
18 was just going to maybe make a couple comments, whatever
19 the Chair prefers.

20 CHAIR NICHOLS: I don't know who -- is there sort
21 a spokesperson or a ring leader or -

22 MS. PARINO: They're about to leave in five
23 minutes.

24 BOARD MEMBER GIOIA: Okay. Maybe I'll just make
25 a couple of observations. I know I'll say a lot more at

1 the end, because I think -- let me first start by saying,
2 I, you know, we appreciate and thank everyone that has
3 come today, including those who have come long distances.
4 And there's a context, because I appreciate and I hear a
5 lot of frustrations.

6 I live in Richmond. I've been fortunate to
7 represent Richmond for 28 years. I live near a refinery.
8 I'm on a local air district and deal with regulation. And
9 I think what I'm hearing -- I think what I'm hearing is
10 that from the environmental justice advocates that are
11 here today, a frustration that the rules that are
12 currently in place to fight climate change are not
13 resulting in decreased emissions in those pollutants that
14 impact local health, like toxics, and criteria pollutants.

15 And I think -- and I'm going to quote from the
16 study for a second, because I think the study sort of --
17 the EJ study framed this issue, which -- and so I'm going
18 to just quote from it, that, "While CO2, the primary
19 greenhouse gas indirectly impacts health by causing
20 climate change, but is not directly harmful to health in
21 communities where it is emitted, however, GHG emissions
22 are usually accompanied by releases of other pollutants,
23 such as particulate matter, and air toxics that can
24 directly harm the health of nearby residents".

25 So -- and the suggestion in the study is that the

1 public health -- and again, I'm quoting from the study,
2 "That the public health and environmental equity
3 co-benefits of cap and trade could be enhanced if there
4 were more emission reductions among the larger emitting
5 facilities located in disadvantaged communities".

6 So it seems to me that last point is sort of the
7 key point. The goal that we all share is how do we
8 decrease emissions that improve localized health
9 conditions in communities around these large stationary
10 sources.

11 And I think we know and acknowledge, I mean, cap
12 and trade is not designed specifically to regulate toxics
13 and criteria, right? It's designed to regulate GHG. So
14 it seems to me the question for all of us going forward is
15 what are the direct regulations, either at the State level
16 or at the local air district level or both, that can
17 achieve the goals of specifically reducing toxic and
18 criteria pollutants to result in better air quality and
19 better health?

20 And we have a role in that, local air districts
21 have a role in that. And I -- it seems to me that
22 sometimes the strategy is to address climate change, and
23 the strategy is to improve air quality in local
24 communities while they overlap, that they're not always
25 the same.

1 And so I think we can still figure here at a
2 State level working with local air districts a way to
3 directly regulate those emissions to improve air quality
4 and health, which again complement climate change, but are
5 different. And I just wanted a perspective in the -- at
6 the Bay Area -- at the Bay Area District that I serve on.
7 We are looking at -- we're looking as a backstop, even to
8 any State program, direct regulations to cap emissions at
9 refineries. It's still in the process of discussion. And
10 it would cap potentially greenhouse gas emissions,
11 criteria pollutants, some particulate matter, and we've
12 also set a goal of reducing emissions at local refineries,
13 by 20 percent. And we're passing some rules to achieve
14 that.

15 So I think -- I guess the point I'm making here
16 is that whether or not cap and trade goes forward, the
17 separate issue is what are those regulations that are
18 needed State and locally to improve health in local
19 communities, which could -- so it doesn't mean that cap
20 and trade in and of itself goes away. It's how is cap and
21 trade designed, and what in addition to cap and trade
22 achieves the health impacts or health improvements in
23 local communities?

24 So I just wanted to point out that a lot of it is
25 about the other regulations, both at this level or local

1 air district levels that can -- to protect local
2 communities, like the community that I live in.

3 So I know we're going to talk a lot about cap and
4 trade. But again, I think they're somewhat overlapping,
5 but some separate issues here going on. A long comment,
6 but sort of something I wanted to at least point out.

7 CHAIR NICHOLS: That's okay. That's good. Thank
8 you. Appreciate it.

9 I think we will hear now from Nicholas van
10 Aelstyn, is that correct?

11 MR. VAN AELSTYN: Yes.

12 CHAIR NICHOLS: Number 10 spoke if you're working
13 on that chart there, yes.

14 MR. VAN AELSTYN: Good afternoon, Chair Nichols
15 and members of the Board.

16 CHAIR NICHOLS: Good afternoon.

17 MR. VAN AELSTYN: I'm Nico van Aelstyn. I don't
18 have a green shirt, but I do have a son with asthma.

19 (Spoke in Spanish.)

20 MR. VAN AELSTYN: But I'm here today on behalf of
21 Sealaska Corporation. Sealaska is the Alaska Native
22 Regional Corporation for Southeast Alaska, established
23 pursuant to the Alaska Native Claims Act, the ANCSA. The
24 forests and coastlines of southeast Alaska are the
25 traditional homelands of the Tlingit, Haida, and Tsimshian

1 people extending from Yakutat on the north to the Queen
2 Charlotte Islands of British Columbia on the south.

3 Sealaska represents the interests of roughly
4 22,000 shareholders of Tlingit, Haida, and Tsimshian
5 Indian decent.

6 Sealaska is guided by its values to build
7 excellence in its native enterprise and take action that
8 strengthen its people, culture, and homelands. The first
9 of these values is our land, which has four principles,
10 and I quote, "The land is the basis of our collective
11 identity and culture utilizing the land while protecting
12 for future generations, sustainable relationship with our
13 lands, sustainable community economies".

14 I invite you to visit Sealaska's website for more
15 information about its values and its work.

16 Under the ANCSA Alaska -- Sealaska secured
17 ownership of approximately 360,000 acres of forestland in
18 southeast Alaska. Sealaska has engaged in natural
19 resources development on a majority of its legal -- of its
20 land holdings predominantly in the area of timber harvest
21 and management for second growth.

22 Today Sealaska also sees benefit in California's
23 forest offset program and has registered a project.
24 Sealaska strongly supports California's commitment to
25 addressing climate change. Northern communities are

1 experiencing the impacts of climate change more acutely
2 than many others. Sealaska supports extending the
3 Cap-and-Trade Program beyond 2020, and specifically the
4 forest offset program. It sequesters carbon, which
5 benefits the planet by locking up GHGs. It helps to
6 contain costs for all in California indirectly, and it
7 provides economic and environmental co-benefits.

8 Alaska's rural villages are some of the most
9 economically depressed in the country. Sealaska's forest
10 project will bring economic developments to the native
11 peoples of South East Alaska. The project also will
12 preserve and protect large forests, including some that
13 were selected because they border sensitive marine
14 habitats and thus will help to protect those as well.

15 CHAIR NICHOLS: Thank you. That is the end of
16 your time. And I understand you're advocating for --

17 MR. VA AELSTYN: And we did submit written
18 comments in which we went more detail on our comments.

19 CHAIR NICHOLS: -- an offset. Yes. Understood.
20 We will welcome your submission.

21 Fariya Ali.

22 MS. ALI: Good afternoon, Chair Nichols and
23 members of the Board. My name is Fariya Ali and I will be
24 speaking today on the natural gas section on behalf of
25 PG&E.

1 My first point is about continuing allocation to
2 natural gas suppliers, for ratepayer protection, and
3 transition assistance. PG&E recommends that ARB continue
4 to use the existing cap adjustment factor of approximately
5 2 percent for natural gas post-2020. Secondly, ARB should
6 maintain the current consignment requirement for natural
7 gas.

8 Staff has proposed and acceleration of the rate
9 of consignment post-2020. PG&E opposes this acceleration
10 for several reasons. Given historical trends and
11 experience, PG&E believes that an increase carbon price
12 signal for natural gas will not actually motivate changes
13 in behavior. This type of mid-course change could instead
14 increase uncertainty in customer rates and it suggests
15 that ARB can make other significant changes without
16 allowing for the time needed to adapt accordingly.

17 Staff also cites wanting to create a level
18 playing field between gas and electricity. However, this
19 fails to recognize the fundamental differences between the
20 sectors and the ability of publicly owned utilities to
21 choose their own consignment level. These differences
22 will persist, regardless of full consignment, and so
23 parity will not actually be achieved.

24 In addition, natural gas customers have not had
25 as much time to adjust to carbon regulation as others.

1 Therefore, the transition to a more sustainable natural
2 gas sector needs to be more gradual.

3 Unlike the electric renewable market, the
4 renewable gas market is much less developed and offers far
5 fewer options. Higher incentives, rather than higher
6 carbon pricing will be more effective in promoting
7 commercially-viable renewable natural gas.

8 In conclusion, PG&E supports the current
9 allocation methodology and the existing cap adjustment
10 factor and supports maintaining the existing rate of
11 consignment for natural gas post-2020.

12 Thank you.

13 CHAIR NICHOLS: Thanks.

14 MR. CARMICHAEL: Good afternoon, members of the
15 Board. Tim Carmichael, Southern California Gas. I echo
16 the comments that Fariya just shared. We submitted
17 written comments. I'll just add two points -- or
18 elaborate on two points. We are also very concerned about
19 increasing the consignments and/or reducing the
20 allowances. Staff has been clear with us that they think
21 one of the impacts of that will be to increase investment
22 in renewable natural gas. We don't believe that's the
23 case. And, in fact, we think there are much better ways
24 to increase -- more effective ways to increase investment
25 in renewable natural gas, and that conversation is ongoing

1 with staff.

2 And then we also are very concerned, as Fariya
3 spoke on PG&E's behalf, we concerned about the potential
4 impacts on our ratepayers as well. One of the goals that
5 we believe we've had with ARB staff for some time now is a
6 gradual increase in rates for ratepayers. And that's what
7 we, as utilities, are trying to achieve in this
8 environment. And again, the conversation with Rajinder
9 Sahota and her team is ongoing.

10 Thank you very much.

11 CHAIR NICHOLS: Thanks.

12 MR. BENGTTSSON: Good afternoon, Chair Nichols,
13 members of the Board, lead off batter for the electric
14 distribution utilities, Nathan Bengtsson with PG&E. As I
15 said I'm one of many utilities you're going to hearing
16 from that support a well designed Cap-and-Trade Program as
17 a critical element to help California achieve its
18 ambitious post-2020 goals. And I want to -- I want to
19 reiterate that it serves as an important de facto backstop
20 to our climate program here in California.

21 I'm going to address 2 issues that are really
22 important to many of these utilities. The first is
23 allowance allocation and the second is program design or
24 cost containment.

25 On the issue of allowance allocation, PG&E

1 strongly supports continued allocation for the benefit of
2 Californian utility customers, and staff's proposed
3 customer cost burden approach. It's a great start. But
4 we would like to see that cost burden umbrella expanded to
5 more completely recognize the carbon reduction costs that
6 are borne by utility customers.

7 These include energy efficiency investments,
8 renewable distributed generation investments, like rooftop
9 solar, increased electrification, and most significantly
10 voluntary investments in renewables beyond RPS mandates.

11 This last point is important, and it's especially
12 important for utilities that are moving away from coal or
13 nuclear generation and replacing those generation assets
14 with renewables beyond the RPS mandate. This should be
15 encouraged through allocation to make those environmental
16 commitments.

17 So PG&E submitted detailed comments on how these
18 investments in GHG reductions should be recognized through
19 allocation. And we ask the Board direct staff to work
20 with the joint utilities to find a way to make that
21 happen.

22 Regarding design of cap and trade going forward,
23 we strongly support the continued availability of offsets
24 and encourage ARB to continue with the effort to include
25 sector-based tropical forestry offsets in the program.

1 This is going to keep program costs within reasonable
2 bounds, while keeping carbon out of the atmosphere,
3 period.

4 Additionally, we support staff's proposal for a
5 linear cap decline from 2020 onward rather than a steep
6 adjustment. However, other proposed adjustments to the
7 program will likely -- will -- they won't likely. They
8 will result in allowances being moved to the allowance
9 price containment reserve, as Rajinder explained earlier.

10 These market-tightening measures might seem
11 reasonable in the wake of 2 undersold auctions and low
12 allowance prices, but there is wide spread agreement from
13 cap and trade stakeholders that external legal uncertainty
14 is artificially depressing this market.

15 These amendments need to put us on track to 2030
16 rather than provide a short-term fix. And considering the
17 distorting signals of litigation, it's just too soon to
18 implement this suite of market changes.

19 An alternative way to encourage market demand
20 without making permanent constrictive changes is to
21 increase the holding limit for compliance entities, which
22 need to begin now planning for -- and hedging for 2030
23 anyway. Thank you very much for your time.

24 CHAIR NICHOLS: Thank you.

25 MS. SUTLEY: Wow. Good afternoon, Nancy Sutley,

1 the L.A. Department of Water and Power. And I wanted to
2 just say first of all that we are making progress in our
3 greenhouse gas emission reduction goals. And you may be
4 aware we divested our interest in the Navajo Generating
5 Plant on July 1.

6 In this -- I wanted to draw your attention to one
7 issue that's very important to us, and that's the
8 treatment of the RPS adjustment in the proposed amendments
9 and in guidance. And the California electric utilities
10 have come together on this issue and we've been in
11 discussions with staff for many months, and we've yet to
12 come to a resolution.

13 Now, we certainly understand the concern about
14 potential double counting around certain existing
15 out-of-state renewable electricity contracts where there
16 may not be direct delivery into California, but the
17 proposed treatment will have real cost impacts for our
18 ratepayers. In our case, these are contracts that were
19 signed before cap and trade. We acquired the renewable
20 energy credits and they count towards our RPS obligations.
21 They represent early actions and early investments by Los
22 Angeles, and other utilities are in a similar situation.

23 In 2011, ARB allocated GHG emission allowances to
24 the electric distribution utilities for the protection of
25 our ratepayers. The formula that was used to set the

1 allowance allocation for all -- for the electric utilities
2 treated all renewable energy, the 33 percent, by 2020 as
3 zero emission.

4 California ratepayers are paying for renewable
5 energy to be generated and this is reducing greenhouse gas
6 emissions within the western electric grid. The electric
7 utilities received no allowances to cover these GHG
8 emissions for the imported RPS eligible electricity that
9 wasn't directly delivered into California, and the RPS
10 adjustment addressed the associated compliance issues.

11 So the joint utilities group has proposed 2
12 solutions. One is to allow the REC owner to claim the RPS
13 adjustment credit for that RPS-eligible electricity that's
14 imported and assign the GHG emissions to the imported null
15 power. And we've already paid for the environmental
16 attributes of those contracts. And the second to provide
17 a supplemental -- or to provide a supplemental allocation
18 to the REC owners.

19 For us, these contracts represent about 4½
20 percent of our retail sales. And if we have to purchase
21 allowances to cover, it would cost our ratepayers an
22 additional a six to seven million dollars a year with no
23 additional environmental benefits. So we'd like you to
24 consider one of those solutions.

25 Thank you.

1 CHAIR NICHOLS: Thank you.

2 MR. BIERING: Good afternoon, Chair, members of
3 the Board. My name is Brian Biering. I'm here on behalf
4 of Turlock Irrigation District. I'm going to speak to the
5 RPS adjustment. But before I do so, I do want to point
6 out that Turlock Irrigation District represents 9
7 communities. And of those 9 communities, 7 are considered
8 disadvantaged communities.

9 We see the cap and trade as the most effective
10 means of minimizing the costs for those customers. And we
11 also see that SB 32 provided clear legislative
12 authorization for a cap and trade post-2020.

13 On the topic of the RPS adjustment, I'm not going
14 to repeat all of what Ms. Sutley expressed concerns about,
15 you know, the removal of the RPS adjustment. We're also
16 concerned about that.

17 What I wanted to point out was how this would
18 affect Turlock in particular. We made an early investment
19 in RPS resource, an out of state wind farm that's 136
20 megawatts. We did that before there was any requirement
21 to do so.

22 And we rely on the RPS adjustment to ensure that
23 we can get that power to our ratepayer owners at, you
24 know, a basically a zero carbon cost. Removing the RPS
25 adjustment would result in a considerable cost to us. It

1 would be on the order of a million dollars a year. And
2 that's based on current allowance prices.

3 You have 2 proposals basically before you right
4 now. One is to retain the RPS adjustment. The other one
5 is to deal with -- remove the RPS adjustment and replace
6 it with an allowance allocation. And the problem with the
7 latter is that it will make PCC2, or Procurement Content
8 Category 2, imports much less cost effective going
9 forward.

10 And it won't address the fact that companies like
11 Turlock Irrigation District made substantial early
12 investments in out-of-state resources, and rely on that to
13 basically meet more than the minimum PCC2 requirements.
14 They use it for all their RPS obligation.

15 So we would urge you to not remove the RPS
16 adjustment, and we look forward to continuing to work with
17 staff towards a resolution of this issue.

18 Thank you.

19 MS. KRIPKE: Good afternoon. My name is Adrianna
20 Kripke, and I'm senior environmental counsel for San Diego
21 Gas and Electric.

22 CHAIR NICHOLS: Could you move the microphone
23 down, so we can hear you better. Thank you.

24 MS. KRIPKE: I'm here to explain why the RPS
25 adjustment is so important to SDG&E and to ask that the

1 Board retain its original approach to the RPS adjustment,
2 to continue to recognize the early investment that
3 utilities have made on behalf of their ratepayers in
4 renewable electricity.

5 For SDG&E that's meant contracts that have
6 started as early as 2008 and that extend as far as 2033.
7 These contracts assign renewable energy credits, RECs, to
8 SDG&E that under the current approach represent a
9 compliance cost reduction for our ratepayers of seven to
10 eight million dollars per year. These RECs also represent
11 up to 20 percent of SDG&E's renewable portfolio.

12 If the Board were to depart from its original
13 approach to the RPS adjustment, our invest -- our
14 ratepayers would no longer be able to get the benefit of
15 these investments. Instead, a windfall would go to the
16 out-of-state importers that brought in the electricity
17 that then had stripped of these RECs and imported into
18 California.

19 As noted in written comments submitted by SDG&E,
20 other utilities these, and the California Public Utility
21 Commission's Office of Ratepayer Advocates, that does
22 nothing to reduce GHG emissions, and the penalty to
23 ratepayers is not good policy.

24 Ideally, the Board would continue with its
25 original approach to the RPS adjustment and adopt the

1 clarifying regulatory provisions that SDG&E and other
2 utilities have proposed. These clarifications would
3 address the double-counting certain by confirming that any
4 electricity that's imported into California that has been
5 stripped of its RECs by contract is brown electricity.

6 And the clarifications also confirm that the only
7 entities that can claim the RPS adjustment are those that
8 hold RECs as tracked by a well proven system to track the
9 serial numbers for those RECs.

10 If the Board is willing to adopt those
11 clarifications and continue this approach, it will ensure
12 that the Cap-and-Trade's Program continues to apply
13 consistently and fairly to all ratepayers including
14 SDG&E's.

15 Thank you.

16 BOARD MEMBER ROBERTS: Could the staff comment on
17 that?

18 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
19 SAHOTA: Sure. So the RPS adjustment is a voluntary
20 option under the Cap-and-Trade Program. What the
21 Cap-and-Trade Program allows you to do is if you are a
22 utility and you have invested in renewable energy, and
23 that energy is outside the state of California and for
24 some reason cannot be brought into California to serve
25 California load, then if you own a REC for that, you can

1 have that REC count for an adjustment to your compliance
2 obligation.

3 But if you're an importer into the state of
4 California, and you know that you're bringing wind or
5 solar into California, you must report it as wind or
6 solar. So if you have wind reporting as wind, but the
7 RECs have been stripped off for the RPS purposes, just
8 because you own the REC does not mean you get to adjust
9 your compliance obligation because it leads to double
10 counting because now, you're recognizing that power once
11 from the original source as it comes across the border,
12 and then again as that REC, which is that renewable energy
13 credit that's associated with it.

14 To the extent that any of your renewable
15 investments outside of the state of California come into
16 California and serve California needs, you get a zero
17 compliant obligation for those. In the regulatory
18 amendments that we've been working on, we are not
19 proposing to make any changes on the policy related to the
20 amendments for the third compliance period.

21 Post-2020, we've put 2 options on the table. One
22 is to keep the RPS adjustment as it was intended and
23 written in 2011, which is how it is implemented today, or
24 we can take the RPS adjustment off the table, do a
25 one-time calculation of what that would mean for

1 additional allowances from us, and then you get to have
2 some benefit as part of your allocation for this
3 investment outside the state of California.

4 We've been working with the join utility group
5 for about 7, 8 months now, and we were still trying to
6 figure out if there was a united position on which option
7 they prefer a post-2020. And so it's an ongoing
8 conversation, and we just want to figure out what the
9 right path is once we get post-2020.

10 CHAIR NICHOLS: Okay. Thanks.

11 MR. GRIFFITHS: Good afternoon again, Chair
12 Nichols and members of the Board. Dan Griffiths from the
13 California Municipal Utilities Association.

14 As highlighted by some of the other speakers
15 today, we ask that the ARB continue the RPS adjustment.
16 The RPS Adjustment is essential to the long-term success
17 of the Cap-and-Trade Program, and furthers California's
18 environmental policy goals by keeping renewables
19 affordable in California.

20 Continuing the RPS adjustment will provide much
21 needed regulatory certainty that will guide investments
22 and utility planning efforts. Removing the RPS adjustment
23 may result in unintended impacts to imported renewable
24 electricity, and the RPS. And the ARB should ensure the
25 Cap-and-Trade Program and the RPS continue to work in

1 tandem.

2 Related to allowance allocation methodology, CMUA
3 does agree that relieving cost burden is the correct
4 approach for post-2020 allowance allocations. CMUA does,
5 however, believe that the cost burden principle should be
6 applied more widely to assure customer costs for early
7 actions and better achieve California's climate policy
8 objectives.

9 For example, cost burden considerations should
10 include recognition of early GHG reductions from increased
11 investment in energy efficiency programs in GHG reductions
12 due to distributed renewable generation.

13 Also, they ARB should continue direct allocation
14 to EDUs for electricity sold to industrial-covered
15 entities. Allocation to EDUs was chosen as the preferred
16 method to return the allowance value to customers, as was
17 noted in the 2011, FSOR. And EDUs remain well situated to
18 utilize allowance value for ratepayer benefit.

19 CMUA also supports allocating allowances to a
20 public wholesale water agency in the post-2020 period
21 using the same methodology used in the existing
22 regulation.

23 Lastly, widespread electrification, including the
24 growth of electric vehicles, will play an important role
25 in meeting the State's greenhouse gas targets. The ARB

1 should enable allowances for increased electrification,
2 which is consistent with SB 350's call for widespread
3 vehicle electrification and acknowledgement of the
4 corresponding impact on POUs from such electrification.

5 CMUA believes these modifications will better
6 enable the success of the Cap-and-Trade Program.

7 Thank you very much.

8 CHAIR NICHOLS: We're going to have to take a
9 very short break, like five minutes. Okay. Five minutes.
10 Don't go anywhere, except the bathroom, if you need to go
11 to the bathroom. That's it.

12 Okay.

13 (Off record: 4:33 p.m.)

14 (Thereupon a recess was taken.)

15 (On record: 4:41 p.m.)

16 CHAIR NICHOLS: Okay. Mr. Corey, whoever is --
17 who is talking? We're -- Richard -- Hector. It's Hector.
18 Hector. All right.

19 All right. We are going to be starting to lose
20 people. We already are, because of flight schedules. We
21 know that. We understand that. We're going to do the
22 best we can to plow through this. I'm increasingly
23 pessimistic about the next item however. And I'd like to
24 know if anybody has any thoughts about what we can do to
25 proceed in an even more abbreviated way on the compliance

1 plan for the Clean Power Plan.

2 How many people signed up for that one? Do we
3 know?

4 BOARD CLERK JENSEN: Five.

5 CHAIR NICHOLS: Five.

6 Okay. So we can do 2 easily on that one. Okay.
7 I think, as long as we can retain a quorum of the Board,
8 we will stay. And so let's just resume.

9 Hi, Ms. Taheri.

10 MS. TAHERI: Good afternoon. Sarah Taheri with
11 Southern California Public Power Authority. I just want
12 to touch on a few issues today. As many of my utility
13 colleagues are also touching on the same issues. But
14 first I wanted to start with the RPS adjustment.

15 Similar to concerns raised by others, SCPA does
16 to support the proposal to remove the RPS adjustment from
17 the Cap-and-Trade Program. We feel that this change would
18 be fundamentally inconsistent with some of the existing
19 State policies, and ongoing efforts by the Governor's
20 office to regionalize the market.

21 Imported renewables are going to be critical to
22 meet the increasing RPS targets, and particularly, given
23 land-use constraints that limit our ability to develop
24 in-State large renewable projects. So removing the RPS
25 adjustment would really increase the cost of compliance

1 with that program.

2 We have been working with the joint utility group
3 on this issue, and we've developed a proposal there. We
4 support the comments from Ms. Sutley earlier with LADWP to
5 essentially work with staff to evaluate these alternative
6 proposals.

7 Next, I'd like to touch on allowance allocations.
8 And with respect to those, SCPPA does not support the
9 shift of allowance allocation to essentially move directly
10 to allocations for industrial entities. In practice, this
11 would require POU's to go forward with lengthy rate-making
12 processes. And sometimes these are multi-year processes.
13 So our concern is that in getting there, we would be
14 impacting all of our customers and not just a small number
15 of covered entities.

16 We recommend that at this time ARB not pursue
17 this shift for industrial allocations, as it would have
18 costly impacts, and may not actually effectively address
19 staff's concerns with that proposal.

20 Lastly, I'll quickly touch on greenhouse gas
21 emission accounting. And this issue was added to the
22 process rather late. So here, we essentially just ask to
23 hold off on this proposal. We think it's premature at
24 this time to consider it with this regulatory package,
25 since there are ongoing discussions at the Independent

1 System Operator, and stakeholders need some more time to
2 evaluate essentially the magnitude of the issue, as well
3 as possible solutions for it.

4 So with that, I'll wrap-up my comments. Thank
5 you so much for your time.

6 CHAIR NICHOLS: Thank you.

7 MR. NEAL: Thank you, Madam Chair and Board. My
8 name is Sean Neal. I'm here on behalf of the Modesto
9 Irrigation District or MID. MID, as others, similarly do
10 not support the elimination of the RPS adjustment for the
11 2021-2030 time period. MID's contracts that are currently
12 eligible for the RPS adjustment are 45 percent of MID's
13 2020 33 percent RPS requirement.

14 The anticipated impact to MID customers and MID
15 over that period, the entire period, for elimination of
16 that adjustment as proposed would be -- you know, with the
17 concepts proposed on the table are \$31 million over that
18 period.

19 Approximately 12,000 of MID's roughly 115,000
20 customer accounts qualify for rate assistance. And in
21 Modesto, all except for one small community, qualifies as
22 a disadvantaged community. So the concern of the
23 elimination of the RPS adjustment and financial impacts
24 are important to MID.

25 MID also echoes the comments made by Ms. Taheri

1 regarding the not supporting the direct allocation of
2 allowance -- allowances to industrial customers. The --
3 that elimination would create the potential for a special
4 rate for a handful of industrial customers. And that
5 project and that approach would be difficult and create
6 potential legal and implementation hurdles.

7 So we urge reconsideration of that proposal. I
8 thank you very much.

9 MS. BRYAN: Good afternoon, Chair Nichols and
10 members of the Board. My name is Leslie Bryan, and I
11 represent the city of Redding Electric Utility. Thank you
12 for this opportunity to comment.

13 Redding is committed to doing our part in helping
14 California achieve its greenhouse gas goals and
15 objectives. Redding supports the comments submitted by
16 NCPA, MSR and the JUG. At this time, I'd like to
17 emphasize our concern regarding the proposed elimination
18 of the RPS adjustment.

19 In 2006, as an early adopter, Redding contract
20 for wind energy from the Pacific northwest that is firmed
21 and shaped before being delivered to Redding. And this
22 resource accounts for approximately 85 percent of our RPS.

23 Eliminating the RPS adjustment would cost our
24 customers over \$600,000 per year or a one -- I'm sorry, a
25 half percent rate increase. And this would critically

1 restrict our ability to procure new renewable resources to
2 meet California's 2030 renewable and greenhouse gas goals.

3 So we urge you to retain the RPS adjustment in
4 the Cap-and-Trade Regulation, and direct staff to please
5 work with affected utilities on amendments that can ensure
6 consistency among California RPS and greenhouse programs.

7 Thank you.

8 MS. HUGHES: Good afternoon, Madam Chairman and
9 the Board. Thank you for this opportunity to comment.
10 First of all, I want to say I'm Kathleen Hughes from
11 Silicon Valley Power, City of Santa Clara. We are in
12 support of the comments submitted by the Joint Utility
13 Group, MSR, and the CPA.

14 There's been a lot of talk today about cost
15 burden, cost containment. And one thing about the RPS
16 adjustment, or the removal of it, or even the adjustment
17 of it to offsets, it's not optional for us. They say it's
18 voluntary. It's not. It really has cost implications. I
19 just looked at the 2014-2015 RPS -- I mean, MMR reporting
20 and tried to extrapolate that. What would that cost be if
21 I could not count that as renewable or as carbon free. It
22 would be about a million dollars a year.

23 Now, this is a contract we entered in early ahead
24 of the game. We still have 10, 15 years left on this
25 contract. That would translate to a 3 to 5 percent rate

1 increase over the next 10 years for our -- and this is
2 just RPS adjustment alone.

3 Then I started looking at the opportunity costs.
4 We pay a premium for this energy. We pay a lot of money
5 just for that little bit that would be not considered
6 adjustable, or greenhouse gas free. We paid about \$9
7 million in 2015 for that.

8 If I would have bought it on the market as an
9 unspecified, I would have paid 4 million for it. And that
10 cost difference is huge for our customers. That's an
11 opportunity to cost, and I'm not including like RPS cost
12 on top of that.

13 So it really can have impacts of what we could
14 have done with our money and what we could go -- do going
15 forward. Another -- you know, it's one thing that comes
16 to mind is when you say it was optional, we have -- you
17 know, on our house we can take off our interest. That's
18 optional, but most of us take that off of our long-term
19 thing. So to us, again, it's not optional.

20 We also have a lot of confusion among our
21 ratepayers. We very large industrial commercial customers
22 that are saying what's our carbon intensity. They can't
23 go by what CARB is, especially if you take out renewables
24 that is supposed to be greenhouse gas free. We also have
25 others that sit -- do the greenhouse gas protocol, and

1 they can't go by CARB's numbers, because that doesn't
2 adhere to the Kyoto Protocol and everything else going
3 forward with that kind of reporting.

4 We have the power content label. We have the
5 RPS. And they're all different in how we have to explain
6 this and this message to our customers.

7 So it would be nice to see some conformity
8 between the State of California and what kind of message
9 we can send to our customers and have that addressed as
10 well.

11 And I thank very much for the comments.

12 MR. SMITH: Hi, Chair Nichols, members of the
13 Board. Adam Smith with Southern California Edison. I'm
14 not going to use my entire time. The Joint Utility Group
15 has submitted comments. Southern California Edison has
16 submitted comments. I just want to highlight our
17 continuing and strong support for the Cap-and-Trade
18 Program. That's point number one. So you can see I only
19 have 3. I'm moving along quickly.

20 Point 2, the allowance allocation. We agree with
21 the Joint Utility Group's proposal that the cost burden
22 principle is the right one to be focused on. However, we
23 do agree that we think it should be broadened, point 2.

24 Point 3, we think it should be broadened
25 specifically, and it's been kind of discussed lightly in

1 the work that staff has done so far, but we don't really
2 have a firm methodology for how to do it, and that's to
3 account for increased emissions due to transportation
4 electrification, and other forms of electrification.

5 As you saw in the -- kind of -- I think it was
6 the first presentation to kick us off today, South Coast
7 has a significant amount of work ahead of it.
8 Electrification will play a key part in attaining, not
9 just attainment, but also some of our GHG goals. And I
10 think that, you know, ensuring that utilities and utility
11 customers specifically are insulated from any kind of
12 increased cost of compliance with the Cap-and-Trade
13 Program is crucial to ensure that there's no disincentive
14 to allow that transition to electrification as an
15 end-use -- you know, electricity as an end-use fuel to
16 occur.

17 So therefore, just in general summary, clear
18 support for cap and trade moving forward. The allowance
19 allocation we think is going to be a critical component,
20 and we need to make sure we're getting that right.
21 There's a placeholder on transportation electrification,
22 and how we're going to account for that in the allowance
23 allocation. We look forward to continuing to work with
24 staff on that.

25 Thank you.

1 MS. PARSONS: Good afternoon. Cindy Parsons with
2 the Los Angeles Department of Water and Power.

3 First, I'd like to address the proposal to
4 decrease the allowance allocation to the electric
5 utilities and give those allowances to the industrial
6 facilities. The publicly-owned utilities they use those
7 allowances to avoid rate increases to their customers.
8 And so all of our customers benefit from the allowances
9 that ARB allocates to the publicly-owned utilities.

10 We ask that ARB not adopt the proposal to shift
11 those allowances away from the electric utilities, because
12 the redistribution to the industrial facilities will not
13 make those facilities whole. According to our
14 calculations, the proposal would result in a net cost
15 increase of over \$1 million per year to the handful of
16 industrial -- covered industrial facilities that are
17 within our territory. And that is contrary to the
18 objective, which is leakage protection.

19 So you're supposed to be protecting these
20 customers from leakage, but yet the proposal from staff
21 would actually increase their cost of doing business in
22 California. So we request that you not adopt that.

23 We do support an allowance allocation to the
24 electric utilities to support electrification. As was
25 mentioned by CalETC earlier, the utilities will play a key

1 role in making -- achieving the goals of SB 350. And so
2 that allowance allocation would help to pay for the
3 infrastructure and the additional generation that would be
4 needed to support that load.

5 And with regards to the RPS adjustment,
6 there -- staff provided a couple of options. But the
7 problem with staff's options was that they don't fix the
8 problem. And the problem is the additional cost to the
9 ratepayers. So in the original allocation, it was assumed
10 that all RPS-eligible electricity was zero emission. So
11 the RPS adjustment was supposed to cover the portion for
12 which you have to report emissions. So it is not
13 optional. So I just wanted to clarify that.

14 And lastly, we'd like to streamline the process
15 for submitting updates to the registration -- woops.

16 Thank you.

17 CHAIR NICHOLS: That's it. Okay. Thanks.

18 You know, I don't know if there's anybody left
19 speaking for electric utilities, but we can all just
20 assume you don't like the RPS adjustment.

21 (Laughter.)

22 CHAIR NICHOLS: You don't really have to say it
23 again.

24 (Laughter.)

25 MS. BERLIN: Express it all here.

1 (Laughter.)

2 CHAIR NICHOLS: Yeah, I wouldn't bother. We get
3 it.

4 (Laughter.)

5 CHAIR NICHOLS: Okay.

6 MS. BERLIN: Okay. So I will take that off my
7 list.

8 (Laughter.)

9 MS. BERLIN: My name is Susie Berlin and I
10 represent the Northern California Power Agency, and MSR
11 Public Power. You heard from MSR's 3 members earlier,
12 MID, Santa Clara, and the City of Redding, and I won't
13 reiterate their very important points about the RPS
14 adjustment.

15 (Laughter.)

16 MS. BERLIN: I will just, on that point, make one
17 comment that in the past, there -- the Final Statement of
18 Reasons for one of the MRRs stated that there should not
19 be a compliance obligation under the Cap-and-Trade Program
20 for RPS-eligible resources. And retaining the RPS
21 adjustment ensures that that carries through.

22 And NCPA and MSR support continuation of the
23 Cap-and-Trade Program. We support continued allocation of
24 allowances to the EDU to cover the cost burden of the
25 program, and for the benefit of their electric customers.

1 And we support the comments made by the earlier utilities
2 on the definition of that cost burden, which includes
3 compliance with myriad other greenhouse gas emissions
4 reductions programs that directly fall on the utilities
5 and the electric customers of those utilities.

6 We urge that transportation electrification be
7 considered at this time during this rule-making, as part
8 of an allowance allocation to the EDUs. We support the
9 continuation of cost containment measures as long as those
10 linkages as part of the cost containment measure are
11 meaningful and optimize the benefits to California
12 entities, and don't compromise the availability of
13 compliance instruments for California compliance entities.

14 We support the use of the Cap-and-Trade Program
15 for CPP implementation. But cap setting, we believe that
16 it is premature to include any kind of calculation for
17 what the 2030 cap should be. We think that instead we
18 should wait and see what some of the scoping plan results
19 are from scoping plans that are developed between now and
20 the time that we need to set the post-2030 cap.

21 Oh, an overarching issue that we would like to
22 address is the notion of interagency coordination. Not
23 necessarily sitting down in every single workshop or
24 meeting between various agencies, but the extent to which
25 actions and implementation of the Cap-and-Trade Program,

1 for example, impact entities that have to comply with the
2 RPS, program mandates, or the way they impact electricity
3 markets in general with regard to issues such as changes
4 to address the EIM.

5 On that latter issue, we think it's premature to
6 have any amendments to the regulation to address the EIM
7 until they've been more thoroughly vetted both in the
8 context of the magnitude of the problem, and whether the
9 proposed fixes would even address the problem.

10 Thank you.

11 CHAIR NICHOLS: Thank you.

12 MR. JACKSON: Good afternoon, members of the
13 Board. Alex Jackson, with NRDC. For those watching
14 on-line, I am not a younger version of Tim Tutt.

15 (Laughter.)

16 MR. JACKSON: He has generously agreed to switch
17 with me so that I can get home for my son's day care
18 parent night. And now that I said that out loud, I'm not
19 sure why I switched.

20 (Laughter.)

21 MR. JACKSON: But from the outset, I just want to
22 say, in response to the important issues and perspectives
23 we've heard today from the environmental justice
24 community, from where I stand, I think -- I just want to
25 urge the Board, you know, not to fall into this notion

1 that we have to choose between economy-wide programs of
2 scale that can help extend the reach of California's
3 programs beyond state lines in the face of a global
4 problem and doing more at the local level to redress the
5 real impacts we've heard about today, from air pollution
6 at industrial sites and mobile sources that continue to be
7 disproportionately impacting disadvantaged communities.

8 I don't think it is an either/or proposition. I
9 think it must be a both/and. We must do both to continue
10 to advance California's leadership on a global scale and
11 continue to do more, which this Board has the power and
12 prerogative to do at the local level.

13 For a host of reasons thus far, the Cap-and-Trade
14 Program has really served as a supporting cast role on the
15 way to 2020, some by design, such as the need for
16 complimentary policies that have moved markets, broken
17 down barriers, and some by happenstance, in that what we
18 thought were going to be the emissions we were going to
19 have to reduce in 2020 have been lower than we thought due
20 to the recession and other factors. So the gap that the
21 cap has had to close has been less than we thought,
22 coupled with legal uncertainty of various favors that has
23 meant low demand for allowances, low allowance prices.

24 That will likely change on the road to 2030,
25 which will require reductions more than double the pace

1 that we have achieved thus far. Without a hard limit on
2 emissions, there's more risk we will not hit that mark.
3 Without a strong market signal, it will likely be more
4 difficult, more costly to achieve that goal. And without
5 significant investments that this program generates to
6 ensure clean energy takes route in communities most in
7 need of them, our program won't have the resources to
8 promote equity.

9 But that is not an endorsement of the status quo,
10 by any means. As this new resource really underscores,
11 low-income communities, communities of color continue to
12 bear the impacts of our economy's externalized pollution
13 costs, which is unjust and absolutely needs to change.

14 And while any pathway to achieve a 40 percent
15 reduction goal will invariably involve steep reductions,
16 there are ways that we can design that approach which will
17 put the appropriate emphasis on equity. And we encourage
18 the Board to continue to look at those.

19 Thank you.

20 CHAIR NICHOLS: We're all eager to hear those
21 ideas from you and others, but now go pick up your kid,
22 okay?

23 MR. JACKSON: Okay.

24 MS. STROMBERG: Good afternoon Chair Nichols and
25 members of the Board. My name is Janet Stromberg. I'm a

1 very recent retiree after 28 years of working for U.S. EPA
2 Region 9, and the Bay Area Air Quality Management District
3 as an engineer.

4 By design, California's Cap-and-Trade Regulation
5 denies public access to the details of greenhouse gas
6 emission trades. This is an unprecedented and
7 indefensible feature of California's climate program. For
8 other pollutant trading programs, emission credits used by
9 specific facilities are a matter of public record.

10 The State's climate program should be just as
11 transparent as other air pollution programs. This is
12 necessary to retain public support and strengthen
13 political will. There's a growing public perception that
14 cap and trade is failing. The program doesn't incorporate
15 the true cost of carbon pollution in credit purchases.

16 The availability of cheap out-of-state forest and
17 other credits kicks the can down the road avoiding direct
18 reductions from the industries most responsible for the
19 climate crisis and air pollution. We know we need to end
20 dependence on combustion for power. I've read comments by
21 Chair Nichols saying exactly that.

22 Cap and trade delays sending the strong policy
23 signal needed to move toward ending reliance a combustion.
24 Plus, greenhouse gas reductions funded by cap and trade
25 proceeds cost far more per ton than the original cost of

1 the credits. California's Cap-and-Trade Program is not
2 cost effective, in my opinion.

3 AB 197 sets a clear direction for the future of
4 California's climate program to prioritize the social cost
5 of carbon and direct emission reductions that will protect
6 both the public health and the climate.

7 California's Cap-and-Trade Program should not be
8 extended to 2030, because it is modeled on an outdated
9 mindset that prioritizes industrial cost savings over
10 public health -- removing public health burdens, and it's
11 beset by too many other contentious problems.

12 It is not achieving the actual emission
13 reductions from the largest sources. It allows greenhouse
14 gas emissions increases in California. It's not cost
15 effective, and it's harming public health in already
16 burdened communities.

17 Thank you.

18 MR. NOLD: Board, staff, I'm Ken Nold. I'm with
19 the Turlock Irrigation District. I'm going to try to be
20 brief. If you don't know, Turlock Irrigation District, we
21 are our own balancing authority, we're a POU, and we're in
22 the Central Valley. So we do appreciate a lot of the
23 comments that we've heard all day, because that's us.

24 I'd like to correct an earlier statement. It's 7
25 of 11 of our areas are disadvantaged communities, not 7

1 much 9, so it's in that bad.

2 We would like to say that we are in support of
3 continuation of the cap and trade. We think it's the most
4 efficient and most cost effective method of lowering
5 greenhouse gases.

6 I'd like to note that we've been an early
7 adopter, and we don't want to get punished for that. And
8 not to cross the Board Chair, all I'm going to say is RPS
9 adjustment, and I'm going to leave it at that.

10 (Laughter.)

11 MR. NOLD: We also -- are worry -- are concerned
12 with the switching of the industrial allocation to -- from
13 the utilities to the industrial sector. Especially for
14 POUs, that doesn't adequately compensate or work for our
15 ratepayers.

16 I'd also like to note that a lot of the
17 regulation we're look -- staff is looking at paints all of
18 the utilities with the same brush. Our area has low
19 growth. And I know that hasn't been spoken of yet today,
20 but we're going to -- our load is going to keep growing.
21 And in part of the allocation process, the staff is
22 proposing that everyone has a flat load growth. Well,
23 that has an effect on us, along with RPS adjustment, along
24 with switching of the EITE.

25 And I'd just like to be in that allocation

1 process. It is a bottoms-up process this time around, and
2 I'd like to be -- have you guys aware that, of course, you
3 should look at all of us individually, not as one big same
4 group.

5 I'd also like to mention that we think it's
6 really important as the utility sector is going to replace
7 much of the transportation sector, that we're also given
8 allowances for, or at least an allocation process.

9 Thank you.

10 CHAIR NICHOLS: Thank you.

11 MR. LARREA: Good evening. John Larrea with the
12 California League of Food Processors.

13 First of all, I want to thank the Board. With
14 the recent release of the food processing study that you
15 ordered back in 2011, you know, we are very much pleased
16 with that, and we believe that it shows that we are in
17 line for a possible adjustment in third compliance period
18 for 100 percent allowances, and we want to work with the
19 staff on that to see that that goes forward. It really
20 would take a lot of pressure off our members.

21 As for the 4th compliance period, I'm going to
22 keep this very tight, as tight as I can on transition,
23 assistance, elimination. We think that the transition --
24 transition assistance should be tied to the development of
25 new technologies for companies under the cap and trade.

1 By doing that, what it does then is instead of just
2 eliminating it out of hand, if any new technologies come
3 along that result in a significant reduction in GHGs, then
4 the -- then by sector, then you can look at the transition
5 assistance and determine whether or not that needs to be
6 lowered.

7 Otherwise, new technologies going into the
8 post-2020 are going to be absolutely key in terms of
9 making this a successful program. And we're going to need
10 the types of investments that are going to be able to
11 support us in that. And as I've said before, I think you
12 should seriously think about bringing back ETAAC, the
13 Economic and Technology Advancement Advisory Committee.
14 That -- with the Board's heft and weight behind that, you
15 can direct that committee to be really focused on
16 developing new technologies that will help us to be able
17 to reduce our emissions directly.

18 And I think that also complies with 197, because
19 if we had new development in technology, we would be able
20 to have those types of direct emission reductions
21 associated with the facilities. So please, you know,
22 really consider about ETAAC.

23 And again, thank you for the food processing
24 study.

25 MS. SEATON: My name is Phoebe Seaton with

1 Leadership Counsel for Justice and Accountability. Ingrid
2 left and ceded her time to me. And I am listed later on
3 the agenda so I won't speak again, unless you'd really
4 like me to.

5 (Laughter.)

6 MS. SEATON: I simply want to align my comments
7 with Center on Race, Poverty, and the Environment. CEJA,
8 CBE, and Pacoima Beautiful, and most importantly the many
9 residents who joined us today, and, you know, adding to
10 that group of residents, we work with CRPE with a cohort
11 of climate justice and environmental justice champions in
12 from Kern through Merced counties. And half of them did
13 not join us here today, because they're leading the
14 conversation with EPA and OEHHA in Fresno on
15 CalEnviroScreen. But they would also, I think, echo the
16 concerns with cap and trade around its disproportionate
17 impacts on communities of color and lower income
18 communities.

19 We look forward to working with you and many
20 others on a better solution to climate.

21 Thanks so much.

22 MS. WILSON: Good afternoon. My name is Monica
23 Wilson. I'm the U.S. Director of GAIA, the Global
24 Alliance for Incinerate Alternatives. And I'm also
25 honored to serve on the Environmental Justice Advisory

1 Committee.

2 I'm here today on behalf of my organization to
3 show support for the EJAC's recommendations, and to oppose
4 the extension of cap and trade beyond 2020. I'm going to
5 defer comments on that point to the excellent and
6 data-driven information we've already heard today.

7 I also am here to speak on a specific point that
8 our organization works on in California and around the
9 world, which is incineration. Deep in the staff proposal
10 in front of you on the Cap-and-Trade Program is a proposal
11 to extend the exemption that incinerators currently enjoy
12 under the Cap-and-Trade Program in California.

13 These polluting facilities have already gotten
14 off the hook for the first compliance period. And at that
15 time, we were told, along with EJAC and other people who
16 were -- organizations who were concerned about this, that
17 this would be a one-time exemption. So it's a shame that
18 we still have to spend time talking about this when we
19 have so many more systemic issues to be focusing on today.

20 So I'll be brief with 3 reasons of the many
21 reasons why I would encourage you for -- that ARB keep its
22 promise on putting incinerators under the cap.

23 The first is that the State's incinerators are
24 polluting environmental justice communities with
25 co-pollutants, in addition to greenhouse gases. The

1 second is that the Clean Power Plan clearly states that
2 compliance mechanisms should apply to incineration.
3 That's pretty clear. The third is that a lot of what gets
4 burned in the State's incinerators is organic material
5 like food waste and urban wood waste, things like that.
6 That's material that we should be using in compost
7 facilities and then applying to California's lands in
8 order to sequester carbon in the long run, not putting in
9 these incentives which actually incentivize burning it.

10 So, you know, it's a little bit hard to
11 understand why we still have to address this issue when
12 the State, including ARB and other agencies, have done a
13 lot of work moving us forward on the nexus of waste,
14 policy, and climate policy. So to move -- to agree to
15 another extension for incinerators would be a step
16 backwards. So I'd encourage us to keep on the path that
17 we're on around composting and carbon sequestration.

18 And, you know, in sum overall of my comments, I
19 want to say please give California a plan past 2020 that
20 does not include trading, and through 2020 as long as
21 there is Cap-and-Trade Program incinerators should be
22 under that cap.

23 Thank you very much.

24 CHAIR NICHOLS: Thank you.

25 MS. CLAASSEN: Good afternoon, Chair Nichols and

1 members of the Board. Thank you for hearing our comments
2 today. My name is Rebecca Claassen with Food and Water
3 Watch. We are a national nonprofit working to protect our
4 common resources for the public good, and we have about
5 170,000 supporters in California.

6 We respectfully urge the ARB to prepare
7 implementing direct source control measures, post-2020.
8 We see the recent passage of SB 32 and AB 197 and their
9 stated priority for direct source emissions reductions as
10 the best case scenario for California.

11 Because cap and trade places additional burdens
12 on front-line communities, and is less effective at
13 reducing emissions than tried and true direct source
14 regulations. Also, the legislature has not authorized
15 this Board to extend cap and trade post-2020.

16 Cap and trade undermines the most important tenet
17 of the Clean Air Act, which is that companies do not have
18 the inherent right to pollute our airways. By allowing
19 polluters to purchase the right to continue polluting our
20 airways, we harm our communities, public health, and our
21 climate.

22 The growing urgency of climate change means that
23 we cannot afford another decade experimenting with
24 unpredictable market-based approaches to our climate
25 problems. We respectfully ask the ARB to turn away from

1 cap and trade with all of its volatility, potential for
2 fraud, lack of transparency, and implement direct
3 emissions reductions at the source for a transparent,
4 accountable, and equitable approach.

5 Thank you.

6 MS. ROBERTS: Chair Nichols, members of the
7 Board. Tiffany Roberts from Western States Petroleum
8 Association. Thank you for the opportunity again to
9 comment. We submitted a letter on September 19th, so I'll
10 just highlight some of the issues from that letter.

11 First, while we support proposals that would add
12 flexibility to the regulation, we are on balance
13 disappointed that the proposals increase uncertainty by
14 using placeholders for core program elements. We're
15 concerned that ARB's approach to adopt some amendments in
16 the current 45-day package, and then address placeholders
17 later on in a 15-day package, really creates a great deal
18 of uncertainty and limits the ability of stakeholders to
19 evaluate the packages as a whole.

20 The placeholder elements are critical and are a
21 critical part of the program implementation. And so we
22 don't think that it's appropriate for a 15-day package,
23 and we would ask that placeholder design elements be
24 evaluated in future workshops and a full 45-day notice and
25 comment periods.

1 Let me turn now to another issue that potentially
2 creates some market volatility. Specifically, staff as
3 part of the reg package makes a couple of assumptions.
4 Number one, that the oversupply of allowances is a
5 permanent condition, which needs to be addressed by the
6 regulation rather than market.

7 And then number two, that allowance prices are
8 going to continue to remain low. ARB really should avoid
9 basing major regulatory design elements on the notion that
10 the future of the program is going to look just like it is
11 in the present. Both of those assumptions are going to
12 lead to unnecessary regulatory intervention and
13 potentially increase market volatility.

14 Let me turn quickly to trade exposure.
15 California's market is subject to imports from markets
16 without carbon regulations. There's still no policy or
17 economic justification for reducing industry assistance
18 factors. ARB's current proposals threaten both the
19 environmental integrity of the program by promoting
20 emissions leakage and loss of economic productivity and
21 jobs to unregulated jurisdictions. It's also disregarding
22 the fact that regulated entities are going to face
23 increasingly stringent cap and trade compliance
24 obligations because of the declining cap.

25 And so we would recommend that ARB extend the

1 current assistance factors into future compliance periods.

2 Thank you.

3 CHAIR NICHOLS: Thank you.

4 MR. RAY: Chair Nichols, members of the Board and
5 the staff, good evening. My name is Bruce Ray, and I'm
6 with Johns Manville - we're Berkshire Hathaway Company -
7 making, among other products, energy efficiency measures,
8 including insulation -- fiberglass insulation that we make
9 at our plant in Willows in Glenn County, about an hour and
10 a half north of here.

11 Johns Manville is a member of the North American
12 Insulation Manufacturers Association, or NAIMA. NAIMA did
13 submit detailed written comments on Monday. And I would
14 recommend you look at those for the detail. I just wanted
15 to raise a couple of issues to kind of highlight a couple
16 of issues, first, on the assistance factor and the leakage
17 for the first 2 compliance periods, and then, of course,
18 for the 3.

19 Our industry was assigned 100 percent assistance
20 factor based on a high leakage risk, primarily from
21 domestic instead of international. We would certainly
22 urge the Board to continue that post-2020.

23 We're still at a high leakage risk, especially
24 domestically, because there's still excess manufacturing
25 capacity in the building insulation industry, because the

1 housing market simply has not yet returned full. We do
2 have, attached to the NAIMA comments, a separate report by
3 the Brattle Group that analyzes the two leakage reports
4 and does confirm that fiberglass insulation is still at a
5 high leakage risk.

6 The other one I want to raise essentially is just
7 the continuing importance of energy efficiency in helping
8 meet the State's climate, energy, and environmental goals.
9 And certainly, if you look at the scoping report, energy
10 efficiency is going to be called upon to achieve at least
11 the amount of greenhouse gas emission reductions as the
12 renewable portfolio standard.

13 And certainly, that means that insulation is
14 going to have to play a very large role in helping the
15 State achieve its greenhouse gas emission reduction goals
16 overall. And that's especially true in disadvantaged
17 communities, where you have tens of thousands, if not
18 hundreds of thousands, of poor performing under-insulated
19 homes that -- where a retrofit could be a climate
20 resilience and adaptation measure.

21 And then finally, I want to draw your attention
22 to a study that we helped -- a 2003 Harvard study, we
23 helped update recently called Carbon Reductions and Health
24 Co-benefits from U.S. residential energy efficiency
25 measures. I'll make sure that staff gets a copy of that.

1 It basically shows that the very large public health
2 benefits from insulating under-insulated homes.

3 Thank you very much.

4 MS. EMERSON: Good evening. I'm Deb Emerson with
5 Sonoma Clean Power, a community choice aggregator.

6 Chair Nichols and members of the Board, thank you
7 for staying late this evening and giving us the
8 opportunity to speak. On behalf of Sonoma Clean Power,
9 MCE Clean Energy, Peninsula Clean Energy, Silicon Valley
10 Clean Energy, and Lancaster Choice Energy, we support the
11 continuation of the RPS adjustment as currently
12 implemented, as well as the existing allowance allocation,
13 and the Cap-and-Trade program and mandatory reporting
14 rules.

15 Community Choice Aggregators are local government
16 entities created by statute for the purpose of providing
17 customers expanded choice within the retail electricity
18 sectors. When CCA's form, customers consider service
19 attributes, such as the percentage of renewable energy
20 content and the greenhouse gas emissions impact. Many
21 CCAs have adopted RPS goals that far exceed the standards
22 set by SB 350.

23 For example, in the most recent integrated
24 resource plan, MCE's board of directors adopted the goal
25 to have an 80 percent RPS-eligible and 95 percent GHG-free

1 portfolio by 2025. Sonoma Clean Power has committed to
2 reaching 50 percent RPS eligible portfolio by 2020.
3 That's 10 years ahead of the State's requirement.

4 In order to achieve this noteworthy clean energy
5 procurement objectives, it is imperative that CCAs retain
6 access to cost-effective renewable energy products within
7 California and throughout the western United States.

8 Eliminating the RPS adjustment could make the
9 ability to supplies renewable, energy to our customers
10 cost prohibitive. I'm not going to go into all the
11 reasons of why that is and how that would directly impact
12 our business, as I think we've heard that from many
13 others.

14 CCAs also oppose the proposal to replace the RPS
15 adjustment by allocating allowances to EDUs. Although,
16 this credit would be allotted to the ratepayers, this
17 allocation does not go directly to the CCA or allow us to
18 use it to meet compliance obligations. Thus, this
19 alternative mechanism excludes CCAs. And we've invested
20 heavily in renewable resources as a major component of our
21 portfolio, and as an unintended consequence CCAs would
22 suffer a competitive disadvantage.

23 Given that CCAs continue to grow in the State of
24 California, and given that the strides that we have made
25 in reducing GHG emissions, we ask the Board not to accept

1 these proposed changes, and to hinder our future progress
2 for a cleaner California.

3 Thank you again for opportunity, and it's
4 important to speak about these matters.

5 Thank you.

6 MR. FACCIOLA: Hello. Nick Facciola from
7 Oakland. At origin climate we manage more than a dozen
8 livestock compliance offset projects. I'm a professional
9 engineer with a background in air pollution control. And
10 I've been working to combat climate change for more than
11 10 years now.

12 Skip thank staff.

13 (Laughter.)

14 MR. FACCIOLA: Actually, Thank you, Supervisor
15 Gioia, because some of your comments that were in response
16 to the folks in the green shirts, my testimony echoes some
17 of those sentiments.

18 Greenhouse gases, and CO2 in particular, are
19 unlike other air pollution in that they do not lend
20 themselves to mitigation through traditional air pollution
21 control technologies, whereas particulate matter, NOx and
22 SOx, can be reduced through the use of filtration,
23 scrubbing, and other techniques to clean up the exhaust
24 from combustion point sources. Carbon dioxide is a
25 primary result of complete combustion. No matter how many

1 air pollution control technologies can be outfitted on a
2 stack, cleaning all these unintended byproducts of
3 combustion to perfect and ideal conditions will still
4 leave us with the same amount of CO2 per unit of carbon in
5 the fuel.

6 It follows that GHGs like CO2 need to be targeted
7 for reductions in a different manner altogether. Our
8 livestock offset projects reduce GHGs in a manner that is
9 scientifically quantified, proven and identify --
10 independently verified as real and permanent.

11 If you factor these into those charts, these
12 emission reductions in Cushing's report, you'd see
13 probably net reductions in GHGs. It's important to keep
14 separate the significant health effects of criteria air
15 pollutants that they have on our local communities from
16 the global consequences and strategies to reduce GHGs.
17 When it comes to greenhouse gases, science has shown that
18 location does not matter.

19 These gases disperse throughout the atmosphere
20 where they will affect our climate for dozens of years,
21 regardless of where they were emitted.

22 I know that most people, including myself, would
23 rather see fuel combustion reduced altogether. But as far
24 as greenhouses gases goes, the Cap-and-Trade Program
25 offers the most immediate, realistic, and cost-effective

1 solution to meet the ambitious targets set out in SB 32.
2 And, of course, it's already set up. We hope to see the
3 Board approve the program post-2020, so we can continue to
4 spur new GHG emission reductions.

5 Thank you.

6 MS. GRIZARD: Good evening, Chair and members.
7 Erin Grizard with Bloom Energy. Thank you for the
8 opportunity to comment on the staff proposal to reverse
9 the treatment of fuel cells under the current
10 Cap-and-Trade Program. Bloom Energy is one of 5
11 stationary fuel cell companies that are operating today in
12 California.

13 Fuel cells are non-combustion technology. We
14 convert fuel, either biogas or natural gas,
15 electrochemically into energy. By doing so, we achieve
16 GHG reductions, criteria air pollutant reductions, and do
17 not use a lot of water. So there's a lot of co-benefits
18 to the use of fuel cells.

19 Since the Cap-and-Trade Program began, ARB has
20 recognized those environmental benefits and the energy
21 system benefits of fuel cell technologies, and accordingly
22 has not imposed a direct compliance obligation on fuel
23 cells -- or their customers. Sorry, fuel cells or the
24 customers.

25 Instead, fuel cell customers will see a GHG price

1 signal, and are a part of the Cap-and-Trade Program
2 through the inclusion of the natural gas sector in the
3 program. Per the definitions of the program, natural gas
4 suppliers is inclusive of the entities that serve fuel
5 cell customers who chose natural gas as their fuel supply.

6 This is further verified by the CPUC inclusion of
7 the compliance fee in natural gas supplier tariffs that
8 our customers use. Therefore, natural gas fuel cell
9 emissions and obligations payments are already captured
10 upstream through the natural gas utility.

11 Further, the removal of fuel cells from the list
12 of emission sources without a compliance obligation will
13 have the unintended consequence of discouraging this
14 technology, and the State will forego the net reduction of
15 GHG emissions attributable to fuel cells.

16 In order to encourage innovative GHG-reducing
17 distributed generation technologies, the ARB should retain
18 the existing treatment of fuel cells in the Cap-and-Trade
19 Program.

20 Thank you so much for your time.

21 MR. IKERD: Good evening. Thank you Madam Chair
22 and members. Jason Ikerd with Edelstein, Gilbert, Robson
23 & Smith on behalf of GPI, the Glass Packaging Institute.

24 I just wanted to briefly address the issue of
25 transition assistance and leakage prevention for the

1 container glass industry post-2020. As you probably know,
2 the container glass industry is a very trade exposed
3 industry. They are at a very high risk of leakage. The
4 Board has always recognized this. Current regulations
5 classify the container glass industry as a highly leakage
6 risk industry. And as such, we enjoy 100 percent industry
7 assistance factor for our industry.

8 We think that going forward that's very
9 important, because as the Board's own assessment pointed
10 out, the container glass industry among EITE industries is
11 more -- is facing the largest impact of all the industries
12 that were analyzed in the study.

13 We think that continuing 100 percent industry
14 assistance factor going forward is a really easy way to
15 mitigate some of the impacts that are discussed in this
16 assessment to our industry, and in no way jeopardizes the
17 integrity of the program and the greenhouse gas emission
18 reduction goals of the State.

19 So we appreciate the time, and look forward to
20 working with staff going forward on the issue.

21 MS. OLIVEIRA DE LIMA COSTA (through interpreter):

22 I don't speak English, so I'm going to ask my
23 friend to translate. I'm going to talk here from the
24 perspective of an indigenous woman about our expectations
25 and hopes for a partnership between State of Acre and the

1 Brazilian Amazon and California. And I'm very glad to be
2 here, because I know that California has really excellent
3 work on environmental issues, just like the State of Acre.

4 It's very important that this work goes on and
5 respect human rights, indigenous rights, indigenous land
6 rights, health and well-being of local communities, and
7 indigenous land rights.

8 In Acre we are not de-foresting. We are
9 maintaining standing forest. And we need the support of
10 California to continue doing this important work for Acre
11 and for the world. I think that's both California and
12 Acre can be important examples internationally and help
13 bring other countries along. The world is sick and we
14 need to raise our consciousness about this, because these
15 problems are affecting everyone.

16 That's my message.

17 CHAIR NICHOLS: Thank you very much. It's not
18 exactly a short trip from Acre to Sacramento. Appreciate
19 your being here.

20 MR. SHAW: Thank you, Madam Chairwoman and
21 members of the Board. Michael Shaw with the California
22 Manufacturers and Technology Association. I did not have
23 to travel nearly as far, though I do have a back-to-school
24 night to get to.

25 (Laughter.)

1 MR. SHAW: I wanted to thank you -- California
2 Manufacturers and Technology Association represents the
3 interest of 30,000 manufacturers in the State of
4 California with 1.2 million employees, hopefully growing,
5 and about \$2.3 billion in State gross domestic product.

6 We do support a well-designed cap-and-trade
7 system. And we look forward to working with the
8 administration, with the legislature on development of a
9 well-designed cap-and-trade system for post-2020. We
10 believe that this is the most cost-effective way to reduce
11 our GHG emissions and to help address global climate
12 change.

13 One thing I wanted to -- a couple things I want
14 to address specifically, industry assistance. In the
15 proposal, we appreciate staff stepping back from the
16 initial discussion regarding addressing -- or reducing
17 industry assistance in the third compliance period beyond
18 what's already on the books.

19 In fact, we would argue -- we would request that
20 ARB look at extending the 100 percent industry assistance
21 through the third compliance period, as we have yet to see
22 the full adoption and partnership with a number of other
23 jurisdictions in our Cap-and-Trade Program that we had
24 promise -- been promised and expected to see those years
25 ago when AB 32 was originally passed.

1 So we do believe that it will be appropriate
2 in -- the interests of protecting against leakage, in the
3 interests of protecting California manufacturers against
4 the competitive disadvantage that would be generated by a
5 much significant increase in compliance costs.

6 We'd also argue that the -- doing any further
7 adjustments for a post-2020 industry assistance -- or
8 assistance factor should be done in a 45-day comment
9 period, and that to do so in a 15-day amendment that's
10 intended to address minor changes, technical changes,
11 respond to comments would be, I think, inappropriate in
12 this setting, given the economic impact and the millions
13 and millions of dollars at risk.

14 We'd also ask that unused allowances from the
15 third compliance period -- first and second and third
16 compliance period be carried forward into post-2020, so
17 that those allowances that companies have acquired either
18 through reductions or through acquiring otherwise be
19 continued forward.

20 Thank you.

21 CHAIR NICHOLS: Thank you.

22 MS. O'BRIEN: Madam Chair, members of the Board,
23 Rachel O'Brien, manager of government affairs for the
24 Agricultural Council of California.

25 Ag Council is member-supported organization

1 advocating for over Council 15,000 farmers across
2 California ranging from small farmer-owned businesses to
3 some of the world's best known brands. We have submitted
4 formal more comprehensive written comments, but I wanted
5 to highlight a few of our concerns today.

6 Emission leakage of food processors is our
7 central concern. Agricultural products are sensitive to
8 trade exposure from low-cost competitors in domestic and
9 international markets. For example, U.S. canned peach
10 exports for 2015 and '16 fell by 42 percent, which amounts
11 to the industry's lowest export sales volume since 2002.
12 Meanwhile, canned peach imports for 2015-16 marketing year
13 reached a third consecutive all-time record high up 9
14 percent from the previous year.

15 China continues to be the leading importer with
16 54 percent of the total volume, while imports from Greece
17 have increased 57 percent over the previous year.

18 California has also experienced 20 consecutive
19 months of milk production declines due in large part to
20 the high production costs. Meanwhile, Wisconsin broke
21 state production records in 2015, and has experienced 27
22 consecutive months of production increases.

23 With this, it is becoming increasingly evident
24 that the ongoing cost structure in California will
25 adversely impact milk production, and processors may

1 ultimately be unable to meet contractual commitments.

2 This has us very concerned. And despite the
3 market realities, in the third compliance period of this
4 program, staff is proposing to keep food processors in the
5 median leakage category. To meet lower compliance
6 obligations, our member companies will have to purchase
7 additional allowances. A leakage analysis of the food
8 processing sector showed that many food markets -- showed
9 that in many food markets price increases cannot simply be
10 shifted onto consumers, so even minimal increases will
11 displace markets for food product subject to this
12 regulation.

13 The study came to this conclusion notwithstanding
14 that it had a number of issues including outdated
15 information on agricultural programs. We hope that ARB
16 will reevaluate its current position and work with us to
17 assign food processors to high leakage.

18 Additional concerns, include changing definitions
19 and product-based benchmarks, the elimination of
20 transition assistance, and changes to allowances allocated
21 to the APCR.

22 Thank you.

23 CHAIR NICHOLS: Okay.

24 MR. LOPES: Good afternoon, Madam Chair of the
25 Board Mary Nichols, distinguished members. I'm Ludovino

1 Lopes. I'm coming from Brazil. Also, the country
2 received recently the Olympic games. And I want to
3 highlight the importance of this meeting here in the same
4 week where our global leaders are discussing in New York
5 in the United Nations meeting the climate change issues.
6 So thank you for the opportunity to be here to discuss so
7 important issue for our common future.

8 I would like to speak in this minute of have
9 about climate change, and forests, leadership,
10 international cooperation, and steps for our common
11 future. We know that forests are critical for the climate
12 change challenge we have today. And we know that they
13 need to be part of the equation. So the integration of
14 those sectoral forest climate change programs are critical
15 also to the challenge that we are facing in our futures.

16 So when we think about sectoral forest programs,
17 we don't think only about forests, we think about people
18 and we think about changing the drivers of economy.
19 That's the essential of this movement.

20 And about this movement, we know that it's
21 essential that we do it together. It's not possible to do
22 it alone, so we need cooperation, and we need our
23 international cooperation.

24 And we need the right signs to be given to the
25 right people that are now at this moment trying to create

1 those new laws, those new principles, those new policies.
2 I think California is giving that leadership. We support
3 that and I think we -- it's important to give that
4 leadership, but we cannot do it alone. We need to do it
5 in cooperation and with ends, highs with highs. We need
6 to work together for that common goal.

7 So in that sense, it's very good to me to listen
8 that you are continuing to do efforts to continue to work
9 on the sectoral approach in the future approach. And I
10 think that a huge amount of leaders now listen to us.
11 It's not only this room. It's not only the people who are
12 watching us on the Internet. The leaders are listening to
13 us and are listening to your message for them.

14 So I think the main challenge now is -- and I
15 would like to ask, is what do you think are the next steps
16 essential to do? What do you think are the main messages
17 that we need to deliver to them, and what do we think you
18 are -- the main actions that we need to do in cooperation
19 at this moment?

20 And thank you for your courage to do this and to
21 go forward.

22 MS. SHROPSHIRE: Good evening, Chair Nichols and
23 members of the Board. I'm Robin Shropshire. And today,
24 I'm here on behalf of Panoche Energy Center, a 400
25 megawatt natural gas-fired peaking power plant located in

1 the San Joaquin Valley.

2 Panoche operates under the exclusive terms of a
3 Power Purchase and Tolling Agreement, a PPA, with PG&E,
4 which was executed in 2006. You can appreciate that in
5 2006, it would not have been possible to understand how
6 the mechanics of AB 32 would play out when the
7 Cap-and-Trade Regulation was finally adopted 5 years later
8 in 2011.

9 As a result, Panoche currently has legacy
10 contract status under the Cap-and-Trade Regulation. Like
11 other legacy contracts, Panoche's PPA does not include a
12 mechanism by which Panoche can recover AB 32 greenhouse
13 gas compliance costs. Because PG&E is the scheduling
14 coordinator for the facility, they control when and how
15 frequently the facility runs.

16 The disconnect here is that the party in control
17 of dispatching the facility, PG&E, is not who pays for the
18 cost of carbon. That's Panoche. This creates a situation
19 where Panoche is being bid into the market without a price
20 for carbon, making it appear to be a lower cost, more
21 efficient generation source than it actually is.

22 By implying that Panoche is more efficient than
23 it actually is, PEC is running significantly more than it
24 would if the carbon price signal were present. This in
25 turn has caused an avoidable increase in CO2 plant

1 emissions and other criteria pollutants, increased water
2 usage, avoidable increase in cost to ratepayers, and
3 increased operational costs.

4 The best and preferred outcome is to resolve this
5 without utility counterparty. We're continuing to work
6 diligently on this front and are motivated to fix it
7 there. Absent of that, or until the time occurs, we're
8 seeking regulatory help.

9 Because the legacy contract provisions in the
10 regulation are sunseting, until the issue is resolved in
11 a contractual matter, we request that the Board recommend
12 that the current regulatory amendments include language
13 similar to what was proposed by staff in the public
14 workshop in June of this year.

15 To that end, Panoche respectfully requests that
16 the Board direct staff to include the June 24th, 2016
17 staff workshop proposal and a future 15-day amendment
18 package. Thank you for your time and attention to this
19 important issue.

20 MS. MMAGU: Good evening, Chair, members of the
21 Board. I'm Amy Mmagu on behalf of the California Chamber
22 of Commerce. We've submitted written comments, therefore
23 I will keep this brief given the hour.

24 Cal Chamber has long maintained that if designed
25 properly a cap-and-trade program is a more cost-effective

1 approach to achieving emissions reductions and is less
2 likely to unfairly discriminate against certain industry
3 sectors.

4 In the current regulations, we do believe that
5 trade protection -- trade exposure protection is
6 necessary. And we encourage the Air Board to extend the
7 industry assistance factor for future compliance periods.

8 Also, we do encourage the Board to develop a more
9 robust offset program. We feel that that's a great way to
10 achieve cost containment within the program.

11 Thank you.

12 MS. MAY: Good Afternoon. I'm Julia May. I'm a
13 senior scientist with Communities for a Better
14 Environment. I'm an electrical engineer working on
15 long-term electricity planning, but I've also spent the
16 last 25 years evaluating oil refinery air pollution,
17 supporting as a technical support for community members,
18 including CBE members.

19 So I see both the heavy fossil fuel polluters
20 like oil refiners and the burgeoning solution we have
21 which is clean electricity, and renewable electricity. We
22 have oppose cap and trade, but staff did identify good
23 alternatives that it found feasible in the concept paper,
24 including a high transportation option, electrifying
25 transportation, and also another one that focused on

1 industrial pollution.

2 We propose that you combine these using direct
3 cuts in economy wide pollution reduction in fossil fuel
4 phase-out, which your own modelers found is feasible using
5 existing technology without lifestyle changes and found to
6 be economical. This would use aggressive energy
7 efficiency, electrification of transportation and
8 de-carbonization of the grid.

9 Regarding the first question the Board made to
10 staff about what percent cap and trade cover, staff
11 implied, as a preliminary matter, that cap and trade would
12 only be a smart of these State measures, but you should
13 know that for industrial measures, in the last scoping cap
14 and trade was the whole shebang. We didn't get anything
15 else for industrial pollution cuts, except cap and trade.
16 Most of the other measures were transportation. So it's
17 not very comforting for us to know that cap and trade
18 would be just a small piece. For industrial measures,
19 that's all we got before.

20 Despite decades of exposure to refineries, I
21 still get shocked when I'm rime in the community, for
22 example, Wilmington where there's 5 oil refineries.
23 People have oil drilling literally in their backyard,
24 diesel trucking, ports, smells flaring. It's truly
25 intolerable with high asthma rates, and that's just one

1 community.

2 On the ground, the air districts do a lot. We
3 applaud and work with the air district. But they're set
4 up to limit emissions, not to do energy transformation.
5 And CARB has the mandate for energy transformation, and
6 that's what we really need to do.

7 In conclusion, I don't think we're going to clean
8 up the smog without the energy transformation.

9 CHAIR NICHOLS: Thank you.

10 MS. MAY: And we can't clean up the greenhouse
11 gas cuts without ditching cap and trade.

12 CHAIR NICHOLS: It's late in the day, I know, but
13 that buzzer is not a signal to say, "in conclusion". It's
14 actually a signal to stop.

15 MS. MAY: I apologize. I was trying to finish
16 the sentence.

17 CHAIR NICHOLS: Okay. Thank you.

18 MR. HOROWITZ: Good evening. Jack Horowitz here
19 with Earth Innovation Institute. On behalf of EII I'd
20 like to commend the Air Resources Board on proposing the
21 cap-and-trade amendments. I would particularly like to
22 point out the text on page 21 of the Initial Statement of
23 Reasons document, which reflects that ARB staff will
24 continue to explore the sector-based offset program, and
25 its linkage with Acre, Brazil.

1 Implementing this program will not only get
2 California on the right cost-effective track to reach SB
3 32's new 2030 target, but it can also provide real ben --
4 provide real benefits to forest steward communities in
5 Acre, while simultaneously mitigating the global impacts
6 of climate change through tropical forests.

7 The 5th assessment report of the IPCC concludes
8 that up to 60 percent of global abatement measures could
9 come from the land sectors by 2030. This linkage with
10 Acre can play a significant role in tapping into the true
11 potential that land use can play in avoiding the impacts
12 of climate change.

13 With this said, on behalf of the EII, I'd like to
14 state that there is great value in the -- excuse me -- the
15 Board adopting further regulations that allow for the
16 sector-based offset program to become active in the 3rd
17 compliance period of the Cap-and-Trade Program.

18 Thank you.

19 MS. BUSSEY: Good evening, Madam Chair and Board
20 people. My name is Julia Bussey. I'm Chevron U.S.A..

21 First of all, of the policies that California can
22 choose from, cap and trade most certainly provides the
23 most efficient and effective means of achieving real and
24 long-term emission reductions. We support efficient
25 programs.

1 Indirect reductions are also key as part of cap
2 and trade. And the greenhouse gas emissions offsets
3 enable California to promote real and sustainable
4 reductions both here in California and beyond our borders
5 They also promote innovation from other sectors, and we
6 think they're very important.

7 We support the ARB's ongoing efforts both to
8 increase sector-based offsets and consider tropical
9 deforestation, as well as addressing other supply --
10 offset supply issues.

11 We do face a steep decline to 2030, and we urge
12 that the Board reconsider the staff changes that would
13 tighten the market, and would increase cost to industry
14 over time, because we see that steep decline as making us
15 face a serious challenge. This will happen because of the
16 funneling of unsold allowances to the APCR, and also by
17 taking part of the cap to the APCR.

18 I would remind the Board that in the past when we
19 did an APCR, we actually increased the amount of offsets
20 that industry was allowed to use. We just believe that
21 these are premature changes given the steep decline we
22 face in the future.

23 Some elements are also missing from this package
24 and we would like to point out that industry remains trade
25 exposed, that we still face competition from other

1 jurisdictions that do not have carbon costs. Therefore,
2 we would recommend that the Board at least direct staff to
3 reconsider reopening the 2018 trade exposure requirements
4 so that industry does not face a 25 percent reduction in
5 its allowances.

6 And again, we would try to point out that those
7 allowances, although they may seem like a lot, represent
8 less than 3 percent of cap-and-trade revenue, and yet they
9 make a huge difference to the competition of industry in
10 California.

11 Thank you very much, and we also look forward to
12 working with your staff going forward.

13 MR. TEMPLEMAN: Good afternoon. I'm going to
14 read this following testimony today:

15 And I'm just kidding. This is actually the
16 regulation, but --

17 (Laughter.)

18 MR. TEMPLEMAN: -- I think it's nice, because I
19 can bring it home to my interns and tell them to summarize
20 it into one page or less, and see them panic.

21 (Laughter.)

22 MR. TEMPLEMAN: So my name is Andre Templeman. I
23 work for CMCA and I'm representing CMCA today with some
24 testimony. I'd like to, first of all, say that we support
25 CARB's proposed regulatory changes, and specifically the

1 proposal to put the unsold allowances into the APCR.

2 We understand the comments that have been made in
3 writing and in person today about the concerns about that
4 proposal. We have believe that CARB could address those
5 concerns by maintaining the current price -- 3 price tiers
6 in the APCR, and expanding the gap between the price tiers
7 from \$5 to \$15 or maybe even \$20 with the lower price tier
8 starting below the current APCR price.

9 An enlarged PCA populated by the unsold
10 allowances will serve as valuable commodity and price
11 mitigation tool to slow down any drastic upward price
12 volatility.

13 Due to the success of the current regulations and
14 the complimentary measures, California does not have
15 enough fast-acting carbon -- available carbon emission
16 reductions at prices below the APCR that could slow or
17 quickly react to higher prices. And an enlarged and
18 expanded APCR with 3 tiers would do that.

19 In essence, the enlarged APCR with a wider range
20 of price tiers would create speed bumps that should, if
21 the market prices rose in the future, would allow
22 volatility to be mitigated.

23 CMCA supports CARB's proposal to move on sole
24 allowances that remain in the holding account and believes
25 that this mechanism will add to the environmental

1 integrity, and bring confidence to the market. We
2 estimate that as much as 250 million tons may go unsold
3 over the next 2 years.

4 This potentially large volume of allowances is a
5 real risk to the environmental integrity of the program,
6 and also undermines and distorts the market. The unsold
7 allowances in the holding account, in essence, create a
8 new cap at the floor is what we call it. So 250 million
9 tons, essentially twice the current price containment
10 floor -- price containment reserve at the floor and we see
11 that as very dangerous.

12 The market distortions brought on by the unsold
13 allowances and failure of auctions to sell is damaging,
14 and could also damage linkages to places like Ontario and
15 others that are looking at this market as they see a
16 potential lack of revenues and lack of unsold -- and lack
17 of sold allowances, and so we support the CARB proposals.

18 Thank you.

19 CHAIR NICHOLS: Thank you.

20 MR. HOCHSCHILD: Good evening. My name is Lenny
21 Hochschild from Evolution Markets. And I'm here today in
22 my role as western co-chair of IETA, a non-profit
23 organization representing over 160 businesses across the
24 U.S., Canada, and globally.

25 As the State -- sorry. As the world's leading

1 international business community on climate, markets, and
2 finance, IETA continues to be a staunch supporter of
3 California's leadership and commitment to cap and trade
4 and tangible market links with other jurisdictions.

5 As the State makes decisions on the future role
6 and shape of California's Cap-and-Trade Program, we
7 strongly urge the Board to support the clear and robust
8 continuation of California's Cap-and-Trade Program
9 post-2020.

10 Today, over 40 national and 20 subnational
11 jurisdictions representing 13 percent of the globe's
12 carbon emissions have a price, and currently use carbon
13 pricing. Cap-and-trade programs with compliance offsets
14 have become the predominant and preferred policy choice
15 behind this growth. By this time next year, China, a
16 country with deep climate partnerships and MOUs with
17 California will launch its national Cap-and-Trade Program.
18 And according to the World Bank by then 25 percent of the
19 globe's GHG emissions will have a carbon price.

20 This growth is 3 times more than we've seen in
21 the last 10 years. More and more countries continue to
22 employ and deploy carbon pricing. These figures and
23 trends tell the story. And the message is clear,
24 harnessing the power of markets to efficiently reduce GHG
25 emissions is working.

1 Stifling the market or abandoning this carefully
2 crafted mechanism along with orphaning current and
3 potential partner jurisdictions simply cannot be an option
4 for California post-2020. The climate costs are too high,
5 the socioeconomic costs are too high, and the leadership
6 costs are too high.

7 Lastly, we'd like to align ourselves with the
8 comments of Supervisor Gioia before, as well as Alex
9 Jackson from NRDC.

10 Thank you.

11 CHAIR NICHOLS: Thank you.

12 MR. SKVARLA: Good evening. My name is Mikhael
13 Skvarla. I'm here on behalf of the California Council for
14 Environmental and Economic Balance. IETA made some great
15 points and we'd like to associate our comments with them.

16 In addition to that, CCEEB is supportive of cap
17 and trade as an economically efficient mechanism to
18 achieve California's 2020 and 2030 goals.

19 Cap and trade is a long-term program. We can't
20 allow temporary short-term market wobbles to influence a
21 tightening of the market at this time. We need to stay
22 the course, as this will allow us to achieve the
23 international partnerships and mechanisms needed to
24 advance climate change mitigation throughout the world
25 beyond the California borders, which is incredibly

1 important. This isn't just about this State. This is
2 about averting world climate change.

3 That said, we think it's important to examine
4 some of the various mechanisms, such as trade exposure
5 while other jurisdictions are not following, and to
6 continue that course. And we'll continue to work with
7 staff as we move forward on that.

8 We also support offsets including the
9 sector-based offsets, and the comments made by folks from
10 Acre, Brazil.

11 And finally, on a political note, we did have an
12 interesting session. AB 197 has been mentioned a couple
13 of times. I asked the clerk to distribute a letter from
14 Assembly Member Eduardo Garcia. Last line of that letter
15 indicates it's not his intent to preclude the ARB from
16 adopting a market-based mechanism, such as cap and trade.
17 He testified to not wanting to eliminate the cap and
18 trade.

19 And to that end, we support that and will
20 continue to work with the legislature moving forward in
21 future sessions and the administration.

22 Thank you.

23 CHAIR NICHOLS: Thank you.

24 MR. TUTT: Good evening. I'm Tim Tutt from the
25 Sacramento Municipal Utility District again. And batting

1 clean up into -- batter for the utility industry, I won't
2 go over all the other comments that they've made, even
3 though there's been a significant rain delay gap, and I
4 could actually bring it all up again.

5 (Laughter.)

6 MR. TUTT: What I would like to use my time to
7 say is that I'm going to go out on a limb and guarantee
8 you that you will see direct emission reductions at
9 in-state electric generating units by 2020. I can say
10 that because I'll be retired or fired by then, so you
11 won't be able to call me on that.

12 (Laughter.)

13 MR. TUTT: But here's my rationale. The period
14 of the study that we've just looked at is simply too short
15 and too unusual to make long-term conclusions of. It's
16 only a few years. We had a huge drought, which increased
17 emissions from the electricity sector. We had an
18 unplanned loss of a large zero emitting resource, which
19 increased emissions from the electricity sector. And we
20 had a period where one of the direct measures that we are
21 also subject to are -- has -- that we haven't as the
22 industry, the RPS, was essentially at 20 percent
23 requirement through the -- that entire period.

24 We'll have to be at 33 percent by 2020, and 50
25 percent by 2030. We have increasing energy efficiency

1 requirements, which are -- our load is already decreasing
2 and it's going to decrease more. We simply cannot
3 continue making emissions from our power plants with those
4 kind of direct requirements on us.

5 The cap and trade provides actually a price which
6 allows us to say, okay, rather than emitting, can we sell
7 this asset? Can we put that into the market? And SMUD
8 has done that and used some of the proceeds to fund
9 electric vehicle fast-charges in our service territory, to
10 fund deep energy efficiency retrofits for our low-income
11 customers and disadvantaged communities.

12 You don't want to cutoff that source of funds for
13 us or for the State. So support for the cap and trade,
14 and support for utility allocations, particularly to
15 support the electrification transformation that we're all
16 going to see.

17 Thank you.

18 CHAIR NICHOLS: Thank you.

19 MR. BLACK: I want to thank the staff and the
20 Board of ARB for allowing me to speak today. My name is
21 Neil Black and I'm with California Bioenergy, and we're a
22 dairy digester developer partnering with dairy farmers. I
23 want to express my strong support for cap and trade, and
24 also for the Low Carbon Fuel Standard.

25 Earlier today, we heard moving testimony that I

1 greatly appreciated from the EJ community. Many of them
2 come from Kern County, which is the center of our initial
3 project. And upon careful analysis, I think we'll find
4 that we have a lot more in common than is initially
5 perceived. And I'll cover a couple of those examples as I
6 speak.

7 We started California Bioenergy 10 years ago, and
8 we are focused on capturing methane for beneficial use,
9 which is electricity generation or vehicle fuel
10 generation. We have 3 existing electricity projects, and
11 we have 3 more electricity projects that we'll begin
12 construction on later this year.

13 We have benefited and greatly appreciate funding
14 from CDFA and from the CEC. We are also the winner -- one
15 of the finalists, excuse me, in the California Sustainable
16 Freight Action Plan. We just had our cluster in Kern
17 County, including 3 of the projects that are slated to
18 generate electricity to take some of that biogas and put
19 it in a centralized facility, put it into the pipeline and
20 have it be used to replace diesel for freight
21 transportation in the State. That will reduce NOx
22 emissions in the Central Valley, while electricity
23 generation will increase NOx emissions.

24 I'm here because we're very supportive of efforts
25 by the staff to change the requirements on regulatory

1 compliance. However, they're not sufficient, and I'll
2 give you one example.

3 The staff takes an important step to limit the
4 loss of carbon credits to the period of the violation, and
5 we strongly support that.

6 However, often violations won't be recognized for
7 a long period of time. Furthermore, the proposal also
8 addresses all violations, as if they are of equal
9 consequence. The severity of a violation should also be
10 taken into account, since many will be viewed by the
11 regulatory agency as a minor impact.

12 NOVs, notice of violations -- I'm all done.

13 CHAIR NICHOLS: Your done.

14 MR. BLACK: Okay. I want to thank everyone.
15 Thank you. Good night.

16 CHAIR NICHOLS: That's it. Thanks for coming and
17 thanks for your work.

18 MR. BLACK: Thank you.

19 CHAIR NICHOLS: TNC wraps it up again.

20 MR. BLUMBERG: Good evening, Madam Chair and
21 members of the Board. Thank you for your stamina and
22 your -- and the opportunity to speak here today. You
23 know, I knew there was a cap on 2 minutes on talk, but I
24 didn't know until Tim Tutt and Alex Jackson were here that
25 there is a trade option too for a slot here.

1 (Laughter.)

2 MR. BLUMBERG: So maybe you want to include that
3 in your next auction.

4 (Laughter.)

5 MR. BLUMBERG: So the Nature Conservancy
6 submitted a letter. I'm going to briefly just highlight
7 just a few points. We are here to support the proposed
8 Cap-and-Trade Regulation, and the continued use of it to
9 meet the State's 2020 and 2030 reduction goals.

10 We've heard a lot about the benefits of cap and
11 trade. One of those I want to highlight is the safeguard
12 mechanism. It's the backstop. If the regulatory measures
13 don't produce the reductions, the cap and trade will pick
14 them up. It's also cost effective, and it can capture
15 emission reductions from uncapped sectors like forestry.

16 And while the clearer goal of the program is to
17 reduce greenhouse gas emissions, it is not specifically
18 intended to generate revenue. But the auction proceeds
19 from the program have provided additional greenhouse gas
20 benefits and very many critical and important public
21 benefits, including urban forestry, a low-income
22 weatherization, affordable transit-oriented development,
23 forest health, low-carbon transit, and wetland restoration
24 among others.

25 We also support the proposed decline in the cap.

1 We think the 3.5 percent annual reduction is reasonable.
2 We also support the staff proposal to continue program
3 linkages with other jurisdictions. As acknowledged many
4 times today, and also on the -- in the staff report,
5 climate change is a global problem that California cannot
6 solve on its own. Regional and global partners are
7 needed.

8 And that brings me to our next point, we do
9 support the inclusion of sector-based offsets from
10 tropical forest protection at the earliest possible
11 moment.

12 We believe that the staff has done an exceptional
13 job of building the record for this with 4 workshops and a
14 very comprehensive staff report. And there will -- many
15 benefits will accrue to California, including helping
16 Governor Brown achieve the reduction pledges from states
17 in the under 2 MOU, that Acre and other tropical forest
18 states have pledged reductions, and reductions here will
19 do it.

20 One area we'd like to see clarified is on what is
21 non-compliant. We think for forest landowners need a
22 little more clarity in the rule to encourage them to
23 participate.

24 Thank you and good night.

25 (Laughter.)

1 CHAIR NICHOLS: It's one of those drop the
2 microphone moments.

3 Okay. I am going to ask the indulgence of my
4 fellow Board members, because we do have one more item and
5 we also have a court reporter who has been working
6 diligently and tirelessly, but probably needs a break.

7 But rather than taking a break, if we could just
8 have the staff very briefly, very, very, very briefly
9 summarize where you think you are headed next with this,
10 based on what you heard? We can role right into the last
11 item that needs a quorum. I am worried that one or more
12 of my members might have to leave due to circumstances
13 beyond their control. And people have been listening well
14 and carefully and thoroughly, but, you know, it's been a
15 long day, so...

16 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
17 SAHOTA: Sure. So the next steps for staff are to go back
18 and look at -- look at the comment letters to make sure
19 that we haven't missed anything, because we did put out a
20 couple of slides towards the end of the presentation that
21 identified areas where we're going to keep working with
22 stakeholders on 15-day changes.

23 And so we're going to keep working with the
24 stakeholders on those areas, include more workshops, and I
25 know we heard that folks would like to see a comment

1 period longer than 15 days. Fifteen days is the minimum,
2 and if we can accommodate longer, we will try to do that.

3 So that's just the legal jargon about the comment
4 period, the APA process, 15 days, but that really is just
5 a minimum and we can do longer. The RPS adjustment,
6 allocation pieces, those are the big pieces that are
7 sitting out there. We're continuing to have those
8 conversations, and work with stakeholders to bring them
9 along.

10 There's going to be a couple of workshops this
11 fall, and probably early next year. To the extent that
12 any of the Board members are interested in the progress,
13 we will make ourselves available to make sure that we can
14 brief you on things as they evolve in these key areas. To
15 the extent that you all have follow-up questions, we'll be
16 available to answer those as well.

17 CHAIR NICHOLS: Yeah, I think it would be good if
18 you would reach out affirmatively to the whole Board,
19 through the Board Secretary, with the schedule of upcoming
20 events and opportunities where they might want to plug in
21 to listening to some of those.

22 And I also want to just reiterate something.
23 There was a little conversation about this early, but I
24 want to underscore this. This process began -- this
25 process meaning the updating of the Cap-and-Trade Rule in

1 response to the requirements from the Governor's executive
2 order that we work on 2030, and also then SB 350.

3 But SB 32 has come along since that time, and so
4 has its associated bill, AB 197. And although we have not
5 had a comprehensive briefing yet from our legal counsel on
6 the obligations that that imposes. Clearly, there was an
7 intent to see a more robust analysis of some of the
8 alternatives to continuing business as usual, including
9 continuing with the current -- with all of our current
10 programs at their current levels.

11 There is some new thinking I know going on. The
12 scoping plan suggested some of that already. I've heard
13 some ideas here today that have intrigued me and possibly
14 others as well about ways to build on or change the
15 Cap-and-Trade Program. I personally would like to go back
16 and take another look at the advice that we had from the
17 very beginning of the program from the Economic Advisory
18 Committee, which was to auction most of the allowances,
19 and to use the revenue affirmatively to deal with issues
20 about the kind of transition that we all know needs to
21 happen.

22 But any way you slice it, this is going to be a
23 challenge, we know that. There is no sort of simple easy
24 solution, but I am impressed by the seriousness of thought
25 and purpose that have been displayed here by all the

1 people who came to talk to us. And I think that if we can
2 continue to enjoy the same level of public interest and
3 involvement that we did when we first started down this
4 path back in 2007-8 and so forth, that we will -- we will
5 also adapt and learn from what's happened to date.

6 So I do want to encourage you to keep us posted,
7 but I don't think there's anything we need to do, other
8 than to recognize the many issues that have been raised
9 here today, all of which need to be answered -- all of the
10 substantive comments that need to be -- that need to be
11 answered.

12 So if you would indulge me, I'd like to quickly
13 get Craig up here. Craig is one of the fastest talkers on
14 the planet.

15 This is literally true.

16 However, in this case, he is going to simply
17 briefly summarize the relevance of the compliance plan and
18 bring up whatever other staff he needs with him to do
19 this, so people understand that there's another element.
20 There's another reason why we group these items together.

21 SENIOR ATTORNEY SEGALL: Well, hello, everyone.

22 And I'll actually be doing this exceedingly
23 slowly in speech, but very tersely. So let's see how
24 quickly we can go through one of the more critical federal
25 climate programs with as few words as possible.

1 (Thereupon an overhead presentation was
2 Presented as follows.)

3 SENIOR ATTORNEY SEGALL: Let me skip what I was
4 going to tell you and just tell you what I'm going to tell
5 you. We're dealing here tonight surprisingly late in the
6 day with the federal Clean Power Plan, which is the Obama
7 Administration's flagship stationary source power sector
8 greenhouse gas reduction program, and something California
9 has long supported. We helped develop it. We helped lead
10 the coalition of states defending it in court.

11 This is a really critical step in seeing sensible
12 green energy policies move into the power sector
13 nationwide. So some of the things that we and other
14 progressive states have learned can help spread across the
15 country.

16 --o0o--

17 SENIOR ATTORNEY SEGALL: This Clean Air Act
18 requirement is fulfilled via State planning. You'll be
19 familiar with this from criteria pollutant SIP world.
20 It's a similar process. We worked with U.S. EPA to ensure
21 that the State plans could be submitted under a wide range
22 of mechanisms, including providing flexibility for the use
23 of existing successful State programs, something U.S. EPA
24 calls a State Measures program.

25 And what I'm talking with you tonight, it's about

1 how we built a proposed program, indeed the first one in
2 the country, so we've been trying to show leadership here,
3 on -- as part of the larger process we're engaged in of
4 envisioning a post-2020 future for California and federal
5 climate programs.

6 Those programs will be submitted to U.S. EPA at
7 the conclusion of litigation. There's currently a stay,
8 in cases where we're defending the federal agency's
9 efforts.

10 And I'll go through that plan now.

11 --o0o--

12 SENIOR ATTORNEY SEGALL: So our key plan is based
13 on a simple insight, which is that California is more
14 aggressive in climate policy, and specifically on power
15 sector greenhouse gas reductions than the federal program
16 requires. That means our critical task is figuring out
17 ways to strengthen and implement the federal program, even
18 as we move forward with our own work.

19 We've proposed, consistent with proposals you've
20 heard today, to work in federal compliance into the
21 existing State cap and trade and mandatory reporting
22 regulations.

23 --o0o--

24 SENIOR ATTORNEY SEGALL: So let me tell you a bit
25 about how we've built this plan. Our first task was

1 developing a clear account of the covered power plants in
2 California. These are essentially the facilities you
3 would assume would be covered. Essentially, all of them
4 are already in the cap and trade and mandatory reporting
5 programs.

6 There are 249 electrical generating units. This
7 is power-sector jargon. Think of these individual units
8 within a power plant across the State. Most of them in
9 our larger area districts. We finalize that list with
10 extensive stakeholder engagement to the owner/operators,
11 then worked with the federal agency before the stay, and
12 with our partners to calculate appropriate mass limits
13 based on the formulas in the Clean Power Plan.

14 And really the key bullet point is the last one
15 there. California covered EGU emissions are around 41
16 million metric tons CO₂e. Well, in 2030, the Clean Power
17 Plan would have us be around 45 million metric tons CO₂e.
18 That's not a trivial target. We expect our economy and
19 our population to grow. But it does mean that we're well
20 placed for continued compliance if we continue with our
21 historic commitments

22 To demonstrate and build the legal case for our
23 State plan, including the structures we'd need, we then
24 worked with an interagency team. Those folks were
25 actually here earlier toad, but there were trains to

1 catch, but I do want to acknowledge them directly, the
2 Energy Commission and the Utility Commission donated an
3 incredible amount of staff time and expertise to this, and
4 we're just very grateful. This could not have happened
5 without their efforts. It's been really a very positive
6 experience.

7 So using that modeling, and especially using the
8 Energy Commission's integrated energy policy report, which
9 is a stakeholder-driven public process that predicts
10 demand and supply in California well forward into the
11 2020s. And their modeling system, which basically let's
12 us represent the western power grid, we tested our
13 compliance with federal targets.

14 Not wanting to presume a particular course to
15 fulfill deeper emissions cuts, we modeled conservative
16 cases, first looking at what would happen if we held the
17 2020 target going forward, and also looking at a stress
18 case that emphasizes very considerable use of natural gas
19 plants in California to a degree we don't think is likely
20 that helps test and stress the system.

21 This includes things like a drought indefinitely,
22 very high demand for power due to electrification, low CO2
23 prices, and so on. In the same modeling, we look
24 carefully to make sure that our plan would not leak. That
25 it is that folks wouldn't try to evade it by building new

1 power plants or just by generating out of State.

2 At the same time, we tested electrical system
3 reliability under these conditions and worked with the
4 various balancing authorities in California, the
5 reliability coordinators to make sure our assumptions were
6 right.

7 --o0o--

8 SENIOR ATTORNEY SEGALL: What did we learn?

9 And I'll point out, I'm already more than halfway
10 through this presentation.

11 (Laughter.)

12 SENIOR ATTORNEY SEGALL: This seemingly long
13 table can be summarized in about 2 sentences. Under our
14 reference case, which is even before implementing SB 32,
15 we are in 2030 about 15 million metric tons below the
16 federal target level. Even under our stress case, we're
17 about 2 million metric tons below it. Our programs really
18 are working to decarbonize the power sector.

19 --o0o--

20 SENIOR ATTORNEY SEGALL: That means that we are
21 able to use a State measures plan design. Now, there are
22 important legal reasons in the federal program that for
23 each electrical generating unit to have federally
24 enforceable requirements under the Clean Power Plan, that
25 means we had to translate our State target down to each of

1 the individual plans.

2 By far, the most efficient way to do that is by
3 building it in to the trading base platform we have,
4 rather than attempting to set a limit for each of those
5 249 plants individually.

6 To do that, we've proposed amendments, both to
7 the mandatory reporting rule and to cap and trade, that
8 can deliver the accountability and enforceability as to
9 smoke stack reductions that U.S. EPA needs to hit the
10 federal targets, while allowing for the continued
11 functioning of an economy-wide program.

12 --o0o--

13 SENIOR ATTORNEY SEGALL: What are those
14 amendments?

15 The mandatory reporting regulation amendments are
16 very straightforward. They disaggregate data in ways
17 consistent with federal reporting, ensure that record
18 keeping checks the various federal boxes and helps us
19 report consistent with their obligations.

20 Since all these units are already in the program
21 and collect this data, we expect no controversy on that
22 point.

23 --o0o--

24 SENIOR ATTORNEY SEGALL: The proposed
25 Cap-and-Trade program amendments are somewhat more

1 complex. Mark Sippola described them in some detail
2 earlier. In essence, they require the following things:

3 First, they require all the federally covered
4 units to participate in and comply with the cap-and-trade
5 process, as a federally enforceable matter.

6 Second, they align our program compliance periods
7 with the federal compliance periods. This ensures that we
8 can meet the federal targets on the schedule U.S. EPA has
9 set forth.

10 Third, we embedded the various targets we have to
11 hit in the rule for fairly obvious reasons.

12 And finally, we established a backstop program.
13 This is an insurance program for U.S. EPA required by the
14 Clean Power Plan. In essence, it requires that in the
15 extremely -- and I want to underline extremely -- unlikely
16 case that we exceed federal targets in that sector as a
17 matter of smoke stack emissions, then the smoke stack
18 emissions of those EGUs must be reduced to the federal
19 level.

20 We do that by requiring them to continue
21 Participating in the Cap-and-Trade Program, so in other
22 words not diluting the stringency of our State
23 requirements at all, but also introducing a secondary
24 trade program just for those units, calibrated to allow
25 them to come back into compliance.

1 So essentially, issuing compliance instruments
2 just for them that they can trade amongst themselves
3 limited to a quantity consistent with the federal targets,
4 less whatever overage occurred.

5 --o0o--

6 SENIOR ATTORNEY SEGALL: And this brings me to my
7 last time. I want to talk a little bit about where we go
8 from here.

9 Although, the federal emissions targets are not
10 difficult for California to hit, implementing the federal
11 program is Critical for our overall goals as a State.
12 This is one of the major ways that power sector emissions
13 will fall nationally.

14 We'll move forward at the State level to make
15 sure we've got the right plan, in light of both the
16 comments we'll receive and much of the discussion we heard
17 today around the cap-trade program generally. So there
18 will be a great more comment review and outreach coming.

19 We'll, also be coordinating with the air
20 districts. As these are federal requirements, there's
21 some permitting implications. We've already begun that
22 workgroup and will continue to work with them as we go
23 forward

24 And we'll work with the whole regulatory team
25 here on MRR and cap and trade to align those. We'll

1 present this all to you again next spring, along with the
2 final EA.

3 And I just want to use my last 30 seconds or so
4 to again say thanks to the team that worked on this. This
5 has been an interdivisional effort at ARB that a lot of
6 folks put time into, and interagency effort that took a
7 lot of time from folks who were doing a lot of other
8 things.

9 I think it's really been a pleasure to work with
10 everyone and also to deliver the first plan in the
11 country, as a result of their efforts.

12 So thanks to everybody who worked on it.

13 CHAIR NICHOLS: Thank you, Craig. Thank you.
14 That was really helpful. I think most people know this,
15 but the cap and -- the Clean Power Plan is in litigation.
16 There's an oral argument expected soon --

17 SENIOR ATTORNEY SEGALL: Tuesday.

18 CHAIR NICHOLS: Tuesday -- with another Judge;
19 to; hear; it. So 10 judges from the D.C. Circuit will be
20 deciding on the fate of the plan. And there's much
21 speculation, as there always is in litigation, but
22 California chose to presume that the plan would be upheld,
23 in at least something like its current form, and to again
24 take a leadership role in developing a compliance plan.

25 So we have been very supportive overall of what

1 the Obama Administration has been trying to do, and we
2 continue to be supportive of that. So this is a -- this
3 is a great effort. Again, unless anybody needs to give --
4 oh, we four witnesses. I could probably give their
5 testimony for, them but I'm not going to do it.

6 (Laughter.)

7 CHAIR NICHOLS: I will call upon them. The list
8 is up there, so come on down.

9 MS. MAY: Julia May, Senior Scientist CBE. I'll
10 start with the conclusion. Please instruct the staff to
11 propose for your action a non-cap-and-trade compliance
12 strategy for the Clean Power Plan developed through public
13 participation that ensures co-pollutant benefits of the
14 greenhouse gas reductions and co-pollutant benefits that
15 go to communities where the power plants are located.

16 Two issues. The EPA does allow a lot of
17 flexibility, but it also requires good public
18 participation, especially in EJ communities. EPA will ask
19 how did the public participation process provide
20 transparency, meaningful participation for minority
21 populations, low-income populations, tribes, indigenous
22 people? How did you identify and address existing
23 disproportionate impacts? And most importantly, how did
24 these actions impact the final decision?

25 Given the widespread, almost, I would say,

1 complete opposition to cap and trade in communities of
2 color and low-income communities, we believe that if you
3 propose to EPA cap and trade as the way to comply, then
4 you will have to say to EPA you did not take into account
5 the participation of EJ communities in your final
6 decision. That's the first point.

7 The second short one is that the CPA -- CPP
8 requires that you regulate incinerators. California's 3
9 incinerators are in EJ communities generating electricity
10 and emitting huge amounts of GHGs and toxics and criteria
11 pollutants. We would ask you to bring forward a proposal
12 to regulate them.

13 Thank you very much.

14 CHAIR NICHOLS: Thanks. I think the power -- the
15 proposed amendments to the Cap-and-Trade Program did that,
16 didn't they, eliminated the exclusion for the waste to
17 energy plants? Or am I making that up?

18 Something happened.

19 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
20 SAHOTA: So in the Cap-and-Trade Program -- in the
21 existing regulation as it sits today, waste to energy is
22 under the cap starting in 2016.

23 CHAIR NICHOLS: Okay.

24 INDUSTRIAL STRATEGIES ASSISTANT DIVISION CHIEF
25 SAHOTA: The staff proposal is to exempt waste to energy

1 through 2017.

2 CHAIR NICHOLS: Oh, I see. Okay. All right. So
3 we need to look at that. Thank you.

4 MS. MAY: We did submit comments and the next
5 speaker is gone.

6 CHAIR NICHOLS: Okay. Next speaker. Gone.
7 All right. And Laura is also gone?

8 How about Nathan.

9 Nathan is here.

10 MR. BENGTSSON: Fourth time today.

11 I actually accidentally even left my testimony up
12 here. It's great.

13 (Laughter.)

14 MR. BENGTSSON: I will be real fast.

15 Okay. So first of all, PG&E supports staff's
16 proposal to use State measures cap-and-trade backed plan.
17 I think that's a great idea. I also want to say that we
18 think the backstop proposal is much improved. We think it
19 will fulfill the requirements while preserving some
20 flexibility for EGUs. Let's please make it trading ready,
21 extend our leadership even further, and encourage those
22 other states to get on Board.

23 Thanks very much.

24 CHAIR NICHOLS: Thank you.

25 Okay. Any final closing thoughts or comments

1 from -- yes.

2 MS. TARUC: I might beat her to you.

3 I'm Mari Rose Taruc, and with the Environmental
4 Justice Advisory Committee. I just wanted to -- two of
5 the environmental justice advocates that were supposed to
6 speak are not here, but I thought I'd take the prerogative
7 of representing the Environmental Justice Advisory
8 Committee and other environmental justice groups to say
9 that we are opposed to using cap and trade to comply with
10 the Clean Power Plan for the many reasons that community
11 members are saying, that cap and trade is bad for the
12 health of our communities.

13 And then specifically, what Ms. Shana from CBE
14 had pointed out earlier, the offsets program within cap
15 and trade that are mostly out of state are actually
16 forcing larger dirty generation from peaker plants into
17 environmental justice communities.

18 And so we oppose using the Cap-and-Trade Program
19 and the Clean Power Plan as another reason to pollute and
20 harm the health of environmental justice communities.

21 And I know that in the staff proposal, there is a
22 mention of the Environmental Justice Advisory Committee in
23 there being consulted. We think that one hour of
24 consultation with the environmental justice community and
25 not mentioning that we oppose using cap and trade to

1 comply with the Clean Power Plan is disingenuous to what
2 the Environmental Justice Advisory Committee is seeing.

3 So please make sure that in the -- in future
4 versions of the report that you actually state what the
5 Environmental Justice Advisory Committee is saying about
6 this, and even better is if you do an environmental
7 justice analysis of environmental justice impacts of using
8 cap and trade to comply with the Clean Power Plan.

9 Thank you

10 CHAIR NICHOLS: Okay. Duly heard.

11 Now, I believe I have to close the record with
12 this on this item. So I am doing so. And we'll then next
13 move into the review process. And this will be back again
14 also.

15 SENIOR ATTORNEY SEGALL: Chair Nichols?

16 CHAIR NICHOLS: Yes.

17 SENIOR ATTORNEY SEGALL: I'm just reminding you
18 that you may want to close the record on cap and trade as
19 well.

20 CHAIR NICHOLS: Absolutely. I should have done
21 that before, but I will -- some of the comments clearly
22 merge back and forth from one item to another. So they
23 can be taken as being comments on both items. But we will
24 close the record on the cap and trade item as well.

25 Okay. We are now, as I understand it, about to

1 be done, except that we have one person who signed up for
2 public comment. If this -- if he is still here. Damon
3 Conklin, are you still here?

4 Yes. You may speak. I just -- I want to make
5 sure that we're teed up. I didn't want anybody to leave
6 before we had done the public comment.

7 BOARD MEMBER TAKVORIAN: I understand.

8 CHAIR NICHOLS: Okay. Yes. Please do. Go
9 ahead.

10 BOARD MEMBER TAKVORIAN: There's just so much to
11 say, and not any time to say it, which is totally
12 understandable. So when you're closing the record,
13 it's --

14 CHAIR NICHOLS: Well, that's the formal record of
15 the proceeding. If you're -- as a Board member, you can
16 speak at any time and at any length you want to.

17 BOARD MEMBER TAKVORIAN: No, no, no. I'm not
18 trying to take time. I'm just trying to understand the
19 process.

20 CHAIR NICHOLS: Oh. Okay.

21 BOARD MEMBER TAKVORIAN: Because we're closing
22 the record on cap and trade. My understanding was that
23 this being the first hearing --

24 CHAIR NICHOLS: Yes.

25 BOARD MEMBER TAKVORIAN: -- that we were taking

1 on all this information. As you said, staff is going to
2 come back with responses to lots of what they just heard.

3 CHAIR NICHOLS: Yes.

4 BOARD MEMBER TAKVORIAN: Right?

5 CHAIR NICHOLS: Yes. Correct.

6 BOARD MEMBER TAKVORIAN: So that record is --
7 remains open. That record will continue to be commented
8 on?

9 CHAIR NICHOLS: Yes. What happen is there's a
10 new comment period that opens when the Board -- when the
11 staff comes out with a revised version.

12 BOARD MEMBER TAKVORIAN: Okay.

13 CHAIR NICHOLS: That opens up a whole new comment
14 period. So we close the record for this meeting --

15 BOARD MEMBER TAKVORIAN: Got it.

16 CHAIR NICHOLS: -- with the comments on this
17 version of the plan. Then the staff goes back, they do
18 meetings, they do workshops, they come out with proposals,
19 and a new proposal, and then there's another comment
20 period that gets opened up.

21 BOARD MEMBER TAKVORIAN: Okay. So when we talked
22 about when -- I think Rajinder you talked about a 15-day
23 comment period on all of that, would -- just off the top
24 would seem not very adequate, because I'm guessing it's
25 going to be pretty large. So if I'm understanding it

1 correctly, forgive me if I'm not, but that just seems like
2 a big --

3 CHAIR NICHOLS: No, they just call it a 15-day
4 comment period, because that's the minimum -- the minimum
5 comment period.

6 BOARD MEMBER TAKVORIAN: Got it.

7 CHAIR NICHOLS: It's not the maximum.

8 BOARD MEMBER TAKVORIAN: But you said you would
9 try to have more than that is what I heard. And I think
10 we have to do more than try. It has to be more than 15
11 days. That's -- that's what I'm hearing you say, Mary.
12 Thank you.

13 CHAIR NICHOLS: Yes. Yes.

14 BOARD MEMBER FLOREZ: Can I add to that?

15 CHAIR NICHOLS: Please.

16 BOARD MEMBER FLOREZ: Knowing how long we were
17 going to go, Madam Chair, I actually have my comments
18 written. I'd like to submit them to the Chair and to the
19 members for consideration of staff to take a look at in
20 preparation for the next upcoming conversation we're going
21 to have on it. Not go into detail, but just let me
22 outline 5 points.

23 First is to request for more data, and trying to
24 look at the CEJA report and try to figure out how those
25 two fit. The other options, really considering is this

1 I -- think the Chair was very gracious saying we've heard
2 a lot. I'm not going to say anything more. I'm glad
3 that, you know, looking at other compliance programs as a
4 start point.

5 The other is the design of the program. I think
6 we talked a little bit about that briefly in the hearing.

7 The other point I have is the allowances we
8 talked about. I think I'm pretty thorough on that now.
9 So you'll read some things in this, just basically the
10 conversation we had.

11 And the last is the regulatory impact and
12 analysis. The question there is simply have we costed
13 this out? How do we cost that out, and how do we compare
14 programs?

15 That being said, I will submit that to the Chair.
16 And hopefully, staff, we can converse offline. But
17 basically, I wanted to not leave the hearing until you
18 have those portions. And I'm going to just leave it at
19 those recommendations only. There will not be any other
20 comment written to you, other than those 5 points.

21 Thank you.

22 CHAIR NICHOLS: Okay. Thank you.

23 Yes. I think all Board members should realize
24 that they are welcome and encouraged to participate in the
25 process and to convey their views. I really do appreciate

1 it if you do that, you know, through the Chair's office,
2 just so I can make sure that everything gets to everybody
3 that it needs to go to. We're not allowed to obviously
4 violate the public meeting laws, so we can't circulate,
5 you know, to each other as a group and sort of have a
6 discussion about how to go. But the staff is really the
7 place where all this stuff ends up anyway, so I think
8 we're -- we'll be well protected and that regard.

9 Any other comments?

10 Yes.

11 VICE CHAIR BERG: Just to make sure that we have
12 the procedures down, that it is the intent when we come
13 back in January that we will be voting on this?

14 We won't be sending --

15 CHAIR NICHOLS: On these 3 items, that was the
16 original intent, but there may be some adjustment based on
17 further consideration in terms of the time frame?

18 EXECUTIVE OFFICER COREY: Yeah, and the timing is
19 March to return to the Board.

20 CHAIR NICHOLS: It's March.

21 VICE CHAIR BERG: Oh, it's March. It's not
22 January.

23 EXECUTIVE OFFICER COREY: That's correct.

24 VICE CHAIR BERG: Sorry.

25 EXECUTIVE OFFICER COREY: But just one thing to

1 add, because I think it was relevant to questions that
2 several of you asked. Well before that March date, the
3 draft scoping plan will come before the Board.

4 CHAIR NICHOLS: Right.

5 EXECUTIVE OFFICER COREY: And there will clearly
6 be discussion on the strategies, the options that include
7 the cap and trade, the non-cap-and-trade path. And that
8 will be an opportunity to provide an update in terms of
9 where we in the 15-day cap and trade, an informational
10 status report.

11 VICE CHAIR BERG: I think that will be very
12 helpful as well --

13 CHAIR NICHOLS: That's very important. Thank
14 you.

15 VICE CHAIR BERG: -- because they'll give us a
16 strategy. Thank you.

17 CHAIR NICHOLS: Yeah, it's a -- that will be a
18 higher level strategic discussion.

19 VICE CHAIR BERG: Great. Thank you very much.

20 CHAIR NICHOLS: Good point.

21 Any other -- yes, Hector.

22 BOARD MEMBER DE LA TORRE: I'm going to do what
23 Dean is doing. I'll submit it in writing, but I'll give
24 you the gist of it, which is what I picked up from the
25 comments today and from the CEJA study, is what we've

1 always known, ports, power plants, railyards, airports,
2 highways are the places where this is happening. And
3 those are the places we need to zero in on. And if we
4 need to make cap and trade tougher -- we're always getting
5 pushed in the other direction, but I felt I was getting
6 pushed in a tougher direction, and I'm okay with that.
7 And so that's the gist of my comments.

8 CHAIR NICHOLS: Yeah. Okay. Without further ado
9 then I think this meeting can be adjourned. Thanks
10 everybody and we'll see you next month.

11 (Off record: 6:34 PM)

12 (Thereupon the meeting recessed
13 into closed session.)

14 (Thereupon the meeting reconvened
15 Open session.)

16 (On record: 7:00 p.m.)

17 CHAIR NICHOLS: The Board met in closed session
18 until 7:00 o'clock, and we received a briefing from our
19 legal counsel about pending litigation. No action was
20 taken. No decisions were made.

21 So with that, I'm going to formally declare this
22 meeting adjourned.

23 (Thereupon the Air Resources Board
24 adjourned at 7:01 p.m.)

25 C E R T I F I C A T E O F R E P O R T E R

1 I, JAMES F. PETERS, a Certified Shorthand
2 Reporter of the State of California, do hereby certify:

3 That I am a disinterested person herein; that the
4 foregoing California Air Resources Board meeting was
5 reported in shorthand by me, James F. Peters, a Certified
6 Shorthand Reporter of the State of California, and was
7 thereafter transcribed, under my direction, by
8 computer-assisted transcription;

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

12 IN WITNESS WHEREOF, I have hereunto set my hand
13 this 5th day of October, 2016.

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21 JAMES F. PETERS, CSR
22 Certified Shorthand Reporter
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