MEETING

STATE OF CALIFORNIA AIR RESOURCES BOARD

RIVERSIDE COUNTY ADMINISTRATIVE CENTER

BOARD OF SUPERVISORS CHAMBERS

FIRST FLOOR

4080 LEMON STREET

RIVERSIDE, CALIFORNIA

FRIDAY, MARCH 23, 2018

8:36 A.M.

JAMES F. PETERS, CSR CERTIFIED SHORTHAND REPORTER LICENSE NUMBER 10063

A P P E A R A N C E S **BOARD MEMBERS:** Ms. Mary Nichols, Chair 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 Supervisor Phil Serna Dr. Alex Sherriffs Professor Daniel Sperling Ms. Diane Takvorian STAFF: Mr. Richard Corey, Executive Officer Ms. Edie Chang, Deputy Executive Officer Mr. Kurt Karperos, Deputy Executive Officer Ms. Ellen Peter, Chief Counsel Ms. Veronica Eady, Assistant Executive Officer Ms. La Ronda Bowen, Ombudsman Ms. Emily Wimberger, Chief Economist Ms. Michelle Buffington, Manager, Off-Road Agricultural Strategies and Incentives Section, Mobile Source Control Division(MSCD)

APPEARANCES CONTINUED STAFF: Mr. Bart Croes, Division Chief, Research Division(RD) Ms. Shannon Dilley, Attorney, Legal Office Mr. Mike Fitzgibbon, Branch Chief, Atmospheric Science and Climate Strategies Branch, RD Mr. Glenn Gallagher, Staff Air Pollution Specialist, RD Mr. Pamela Gupta, Manager, Greenhouse Gas Reduction Strategy Section, RD Ms. Deborah Kerns, Senior Attorney, Legal Office Mr. Jack Kitowski, Division Chief, MSCD Ms. Lucina Negrete, Branch Chief, Innovative Strategies Branch, MSCD Ms. Erin Uchida, Air Resources Engineer, Innovative Strategies Branch, MSCD ALSO PRESENT: Ms. Lori Apodaca, California Citrus Mutual Mr. Joseph Ayerza, Fresno Equipment Company Mr. Todd Ayerza, Campos Brothers Farms Mr. Louie Brown, Kahn, Soares and Conway Mr. Paul Buttner, California Rice Commission Ms. Colleen Cecil, Butte County Farm Bureau Ms. Noelle Creamers, California Farm Bureau Federation Mr. Manuel Cunha, Nisei Farmers League Mr. Matt Dessert, Imperial County Air Pollution Control District

APPEARANCES CONTINUED ALSO PRESENT: Mr. Harvey Eder, Public Solar Power Coalition Ms. Genevieve Gale, CVAQ, Coalition for Clean Air Mr. Kevin Hamilton, Central California Asthma Collaborative Mr. Mary Humboldt Ms. Devon Jones, Mendocino County Farm Bureau Mr. Tom Jordan, San Joaquin Valley Air Pollution Control District Mr. Roger Isom, California Cotton Ginners and Growers Association, Western Agricultural Processors Association Mr. Jaime Lemus, Sacramento Metropolitan Air Quality District Mr. Kevin Messner, Association of Home Appliance Manufacturers Ms. Brea Mohammed, Imperial County Farm Bureau Mr. Darrin Monteiro, California Dairies, Incorporated Mr. Tom Morris, Honeywell Ms. Kay Pricola, Coalition of Labor, Agriculture and Business Imperial County, Imperial Valley Vegetable Growers Mr. Dan Pronsolino, Cortina Hulling and Shelling, Western Ag Processors Association Mr. Mikhael Skvarla, UTC-Carrier Mr. Joseph Tona, Tehama County Air Pollution Control District Mr. James Wagoner, Butte County Air Quality Management Division Ms. Helen Walter-Terrinoni, Chemours

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1 PROCEEDINGS 2 CHAIR NICHOLS: Good morning, everybody. Welcome 3 to the March 23rd, 2018 public meeting of the California 4 Air Resources Board. We will now come to order. And let's begin with the Pledge of Allegiance. 5 (Thereupon the Pledge of Allegiance was б 7 recited in unison.) 8 CHAIR NICHOLS: The clerk will please call the 9 roll. 10 BOARD CLERK McREYNOLDS: Dr. Balmes? BOARD MEMBER BALMES: Here. 11 BOARD CLERK McREYNOLDS: Mr. De La Torre? 12 Mr. Eisenhut? 13 14 BOARD MEMBER EISENHUT: Here. 15 BOARD CLERK McREYNOLDS: Senator Florez? 16 Assembly Member Garcia? 17 Supervisor Gioia? BOARD MEMBER GIOIA: 18 Here. BOARD CLERK McREYNOLDS: Senator Lara? 19 20 Ms. Mitchell? Mrs. Riordan? 21 22 Supervisor Roberts? 23 Supervisor Serna? 24 BOARD MEMBER SERNA: Here. 25 BOARD CLERK MCREYNOLDS: Dr. Sherriffs?

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BOARD MEMBER SHERRIFFS: 1 Here. BOARD CLERK MCREYNOLDS: 2 Professor Sperling? 3 Ms. Takvorian? BOARD MEMBER TAKVORIAN: 4 Here. 5 BOARD CLERK MCREYNOLDS: Vice Chair Berg? 6 VICE CHAIR BERG: Here. 7 BOARD CLERK MCREYNOLDS: Chair Nichols? 8 CHAIR NICHOLS: Here. 9 BOARD CLERK MCREYNOLDS: Madam Chair, we have a

10 quorum.

CHAIR NICHOLS: Thank you. Just a reminder, if 11 12 there's anybody who's not familiar with the process, that 13 we ask you to fill out a request to speak form if you plan 14 to testify, and submit it to the clerk if at all possible 15 before the start of the item that you're wanting to speak 16 about. I also need to point out the emergency exits at 17 the rear of the room. In the event of a fire alarm, 18 you're we are all required to go out through those exits 19 and out of the building and not to return until we get the 20 all-clear signal. I think that's it for important 21 announcements here.

I'd like to begin today's meeting, second part of our two-day meeting, with the item on the Funding of Agricultural Replacement Measures for Emissions Reductions, or the so-called FARMER Program guidelines.

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That was a really good acronym whoever came up with that
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Emissions from agricultural equipment are a significant source of air pollution especially in the San Joaquin Valley. And reducing these emissions is necessary to meet federal ozone and particular matter air quality standards.

And although increasingly stringent new engine standards will reduce emissions, most agricultural equipment is operated for decades due to the durability of equipment, and the relatively low cost to maintain. And because of the volatility of the agricultural sector, businesses are often reluctant to purchase new equipment, unless it's absolutely necessary.

Unpredictable weather, varying commodity prices, farm size and other factors impact a farmer's ability to purchase new equipment as well. Thus, the natural turnover is not sufficient to meet California's clean air needs.

The agricultural industry, particularly in the San Joaquin Valley, has made significant private investments in an effort to turnover their equipment. But to complement these efforts State incentives are needed for purchasing the cleanest available vehicles and equipment like those that are in the proposed -- that are

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1 proposed in the FARMER Program. And these emissions 2 reductions, as I said before, are really necessary, if 3 we're going to meet health standards in the valley. So 4 we're hearing the guidelines today.

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Mr. Corey, will you please introduce this item? EXECUTIVE OFFICER COREY: Yes. Thanks, Chair.

Incentives have been critical for turning over legacy vehicles and equipment used in the agriculture. The agricultural industry and our district partners have been extremely successful with leveraging private investments to match public funds resulting in the replacement of agricultural vehicles and equipment, and which set the foundation for the FARMER Program.

14 Funding for the FARMER Program consists of 85 15 million from the Greenhouse Gas Reduction Fund, 15 million 16 from the Air Quality Improvement Fund, and 35 million from 17 the Alternative and Renewable Fuel and Vehicle Technology 18 The legislature directed the use of the money from Fund. these three funds to reduce agricultural sector emissions 19 20 by providing grants rebates, and other financial 21 incentives for agricultural harvesting equipment, 22 heavy-duty trucks, agricultural pump engines, tractors, 23 and other equipment used in agricultural operations.

The overarching implementation priority forfiscal year 2017-18 is directing agricultural investments

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to support deployment of advanced technologies and cleaner 1 diesel technologies needed to meet California's State 2 3 Implementation Plan and climate goals. The proposed 4 guidelines detailed CARB's plan for expending funds to 5 reduce criteria, toxic, and greenhouse gas emissions from б the agricultural sector.

7 The guidelines describe the proposed funding 8 allocations for air districts, eligible project categories and criteria, program implementation details, and the 10 justification for these investments.

I'll now ask Erin Uchida of the Mobile Source 11 12 Control Division to begin the staff presentation.

Erin.

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(Thereupon an overhead presentation was presented as follows.)

AIR RESOURCES ENGINEER UCHIDA: Good morning.

17 Today, I will be presenting our recommendations 18 for the FARMER Program, which stands for Funding 19 Agricultural Replacement Measures for Emission Reductions. 20

21 AIR RESOURCES ENGINEER UCHIDA: First, I'd like 22 to take a moment to set the stage. As you know, CARB has 23 a suite incentives that focus on two general types of projects. Projects that are designed to encourage the 24 25 turnover of legacy vehicles and equipment to the cleanest

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available technologies, and projects that advance technologies that propel us to a zero-emission future.

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Today, we are going to focus on a new program designed to primarily incentivize fleet turnover in the agricultural sector, the FARMER Program. This program will provide incentives to turnover a variety of agricultural engines, while advancing zero-emission technologies where feasible.

9 For example, this is a great opportunity to fund 10 electric agricultural utility terrain vehicles or, ag 11 UTVs, which is an important entry point for zero-emission 12 vehicles in the agricultural sector. The projects funded 13 under this program will provide criteria, toxics, and 14 greenhouse gas emission reductions.

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16 AIR RESOURCES ENGINEER UCHIDA: Agriculture is a 17 vibrant and critical contributor to California's economy, 18 and it also has impacts on air quality. These pie charts 19 show current emissions from farm equipment account for 20 approximately eight percent of NOx emissions from mobile 21 sources statewide. This is significant, but in the San 22 Joaquin Valley, this impact is even greater, since 23 agriculture is a large part of the economy.

There, in the San Joaquin valley, farm equipment accounts for approximately 22 percent of the region's NOx

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emissions from mobile sources, which is almost three times as much as what's seen statewide.

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4 AIR RESOURCES ENGINEER UCHIDA: Similar to NOx, 5 PM2.5 emissions from farm equipment account for б approximately eight percent of the State's PM2.5 emissions 7 from mobile sources. Whereas, in the valley, farm 8 equipment accounts for over 27 percent of the emissions. 9 These pollutants contribute to poor regional air quality, 10 particularly in the San Joaquin Valley. And therefore, 11 addressing these emissions is an important part of our 12 clean air strategy.

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14 AIR RESOURCES ENGINEER UCHIDA: The agricultural 15 industry has, and will continue to play, a critical role 16 in getting the emission reductions necessary to meet State 17 and federal air quality and climate change goals. 18 Addressing criteria pollutant and toxic air contaminant 19 emissions from agricultural sources, reduce near sources 20 exposure risk both for agricultural workers and residents 21 in nearby communities. Agricultural incentives have been 22 extremely successful in achieving these emission 23 reductions.

24 The California Air Resources Board, along with 25 the districts and agricultural stakeholders have

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1 recognized the value of investing in cleaner engines, and 2 have directed funds towards these critical projects for 3 over 20 years.

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AIR RESOURCES ENGINEER UCHIDA: The agricultural industry has made significant private investments to match public incentives in turning over old jalopy vehicles and equipment.

9 Looking solely at funding through the Carl Moyer 10 Program and the Natural Resources Conservation Service, or 11 NRCS, approximately \$1 billion has been invested in ag 12 engines over the last 20 years. Half of that came from 13 private industry. Together, these investments have helped 14 turn over more than 14,000 ag engines in the state.

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AIR RESOURCES ENGINEER UCHIDA: In the San Joaquin Valley alone, over \$500 million has been invested through the Carl Moyer Program and NRCS to reduce emissions. However, when you include local funds and additional programs, the San Joaquin valley and its ag stakeholders have invested over \$1 billion to research and reduce ag emissions in the valley.

As you know, the San Joaquin Valley is in extreme nonattainment. Because of this, the ag industry was given an emission reduction target to meet through incentives as

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1 part of the regional SIP. They stepped up and sped up the 2 turnover of their equipment before required, matching 3 public investments dollar for dollar and exceeding the 4 valley's existing SIP commitment for emission reductions 5 from ag.

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7 AIR RESOURCES ENGINEER UCHIDA: Continued 8 incentives are critical, but it's also critical that we 9 continue to innovate with our incentives, especially to 10 encourage participation from underserved farmers. One 11 example of this is the Ag Trade-Up Project. Developed 12 with the ag industry and the San Joaquin Valley Air Pollution Control District, the Ag Trade-Up Project 13 14 involves a two-step transaction and is intended for 15 growers who may not have -- who may not have been able to 16 access incentives in the past.

17 Traditional ag equipment replacement projects and 18 new innovative projects such as this provide crucial 19 emission reductions from agriculture. However, to meet 20 air quality standards and California's climate change 21 goals, a continuing transition to the cleanest available 22 technologies is necessary. And the FARMER Program is a 23 great opportunity to continue the agricultural sector's 24 emissions -- transition to the cleanest available 25 technologies.

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AIR RESOURCES ENGINEER UCHIDA: Next, I'd like to cover the funding goals of the FARMER Program. --000--AIR RESOURCES ENGINEER UCHIDA: Recognizing the agricultural industry's work and the past success of agricultural incentives, as well as the need for additional progress, the legislature allocated \$135 million to the California Air Resources Board. 10 The funding came through AB 134 and AB 109 to 11 reduce emissions from agricultural engines. The funding 12 comes from three separate sources: The Air Quality 13 Improvement Fund; the Alternative and Renewable Fuel and 14 Vehicle Technology Fund; and the Greenhouse Gas Reduction 15 Fund. Each of these funding sources has its own statutory 16 requirements. To create this new program, we are drawing 17 from all three sets of requirements, which we will talk 18 about in A moment. 19 In the budget bills, the legislature directed 20 CARB to reduce agricultural sector emissions by providing 21 grants, rebates, and other financial incentives for the 22 category shown on this slide. 23 --000--24 AIR RESOURCES ENGINEER UCHIDA: As I just

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mentioned, the three sources of funding each have separate

but related goals and requirements. For example, the Air Quality Improvement Fund rec -- prioritizes criteria pollutant and toxics emission reductions, whereas, the Greenhouse Gas Reduction Fund prioritizes facilitating and achieving greenhouse gas emission reductions. Therefore, staff proposes to include project types that will reduce all of these emissions.

8 The Greenhouse Gas Reduction Fund also has AB 9 1550 requirements, which sets the investment targets for 10 projects within and benefiting low income -- or 11 disadvantaged and low-income communities. For the FARMER 12 Program, staff is applying these investment targets 13 program wide? The targets are a minimum of 50 percent of 14 funds for projects located within and benefiting 15 disadvantaged communities. And five percent of funds for 16 projects within and benefiting low-income communities.

The three funding sources each have various reporting requirements, and staff will combine these requirements to streamline reporting while maintaining verifiable emission reductions. The legislature directed CARB to provide incentives for agricultural vehicles and equipment.

23 Therefore, staff is proposing to focus funding on 24 regions of the State with large numbers of agricultural 25 equipment. This willow districts more ag equipment to

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have the much needed ability to turnover old ag engines.
 FARMER Program funds must be expended by June 30th of
 2021. CARB staff will be closely monitoring to ensure
 that funds are spent quickly and efficiently.

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AIR RESOURCES ENGINEER UCHIDA: To ensure that the program goals and requirements are met, next I'd like to discuss program administration and oversight.

9 For the FARMER Program, staff recommends allocating funds to local air districts to administer. 11 Under this model, CARB's duties and responsibilities 12 include distributing funds to local air districts, 13 developing criteria for eligible projects, providing 14 district support, and conducting program reviews and 15 audits.

16 CARB's responsibilities also include 17 incorporating safeguards in district grant agreements to 18 ensure funds are spent within the allotted timeframe, 19 including moving funding between districts as needed.

Air districts would be expected to conduct outreach, implement projects, and comply with all administrative requirements.

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AIR RESOURCES ENGINEER UCHIDA: Staff's proposed distribution is based on legislative direction and public

feedback. For district funding allocations, staff proposes to allocate 80 percent of FARMER Program funding to the San Joaquin Valley Air Pollution Control District. This is due to the district's high agricultural activity, extreme nonattainment with air quality standards, and significant portion of farmlands that are designated as disadvantaged communities in CalEnviroScreen 3.0.

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8 For the remaining 20 percent of FARMER Program 9 funding, staff is proposing a formula to distribute the 10 funds among local air districts. To help ensure the funds 11 are distributed equitably among the districts, the formula distributes the remaining funds on two factors. The first 12 factor is each district's contribution to statewide 13 14 emissions from farm equipment to address near-source 15 exposure.

The second factor is each district's air quality and attainment status with national ambient air quality standards to address regional air quality. This results in most districts receiving between 600,000 and just over \$2 million. For districts with less than one percent of the statewide emissions from farm equipment, staff is proposing to combine their allocations into a shared pool.

This shared pool with five and a half million dollars would be administered by one air district or the California Air Pollution Control Officers Association. During the public process, much of the conversation focused on the funding distribution. The original distribution formula used district people populations as an overlay. However, in almost every workshop, we received feedback that the agricultural funding distribution should be based on ag equipment emissions.

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8 Taking these comments under consideration, we 9 revised the formula to focus primarily on ag equipment 10 emissions, but also incorporate each district's air 11 quality and attainment status. We believe our revised 12 formula strikes a balance between legislative direction, 13 public feedback, and regional air quality concerns.

AIR RESOURCES ENGINEER UCHIDA: Next, I would like to discuss staff's recommendations for eligible project categories.

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AIR RESOURCES ENGINEER UCHIDA: To ensure that funds are spent quickly and efficiently in the first year, we are recom -- we recommend directing investments primarily to agricultural projects that have been successfully implemented in other incentive programs, such as the Carl Moyer Program and Air Quality Improvement Program.

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We are looking for a balance of between projects that get the greatest emission reductions and projects that will assist small growers who may be unable to purchase new vehicles and equipment even with assistance from incentives.

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б Staff proposes including the following project 7 categories: on-road heavy-duty tricks used in agricultural 8 operations; and off-road mobile diesel agricultural 9 equipment, which includes both track -- traditional 10 tractor replacements and the Ag Trade-Up Project in the 11 San Joaquin Valley. The proposed project categories also 12 include off-road mobile large-spark ignition equipment 13 used in agriculture; agricultural irrigation pump engines; 14 and electric ag UTVs. To ensure emission reductions are 15 permanent, projects require the old vehicle equipment or 16 engine to be scrapped.

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AIR RESOURCES ENGINEER UCHIDA: In addition to the project categories just described, staff recommends that the Board grant CARB's Executive Officer authority to approve additional categories or modify existing project categories as needed.

For instance, during the workshops, staff received comments to modify criteria for on-road heavy-duty trucks, which are not currently receiving much

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incentive funding in other programs, and can be expensive to replace. In response to stakeholder requests, we are committed to continue working together to develop or modify the on-road truck category to provide a truck incentive tailored to agricultural businesses.

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6 Providing CARB's Executive Officer the ability to 7 approve or modify project categories as needed would 8 unable us to respond to new information while providing a 9 mechanism to ensure funds are spent expeditiously.

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11 AIR RESOURCES ENGINEER UCHIDA: Upon Board approval of these guidelines, our next step would be to 12 13 enter into grant agreements with districts this spring and 14 summer. Under this timeline, staff anticipates that funds 15 will be available to farmers and agricultural businesses 16 this summer through their local air districts. Staff will 17 also continue working with interested stakeholders to 18 modify or expand the project categories, such as the 19 on-road truck category just discussed, through a public 20 process then seek EO approval.

The FARMER Program provides a fantastic opportunity to continue the agricultural sector's transition to the cleanest available technologies, while also promoting and enhancing our partnerships with both the ag industry and local air districts.

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1 Staff recommends that the Board approve the proposed FARMER Program guidelines. 2 3 Thank you for your time. And if you have any 4 questions, we'd be happy to answer them. 5 CHAIR NICHOLS: Thanks, Erin. I don't have any б questions, but I see that Board Member Eisenhut has his 7 mic on. So I'm going to call on you if you have any 8 comments at this time. 9 BOARD MEMBER EISENHUT: I do, Chair Nichols. 10 That was intended to be after the public comment. 11 CHAIR NICHOLS: Oh, okay. 12 BOARD MEMBER EISENHUT: Sorry. 13 CHAIR NICHOLS: You're just getting in early then 14 okay. Great. 15 (Laughter.) 16 CHAIR NICHOLS: You are the first in line. 17 (Laughter.) 18 CHAIR NICHOLS: Okay. We have a list of 20 19 witnesses. Are they posted yet or ready to be posted, so 20 people know where they are in the queue? 21 And I see that many of them are here in support, 22 so that's nice. I'm going to ask you to keep your 23 comments brief. We allow three minutes, but we have 24 another item this morning as well. So if you can possibly 25 make it 2, I would appreciate it very much. And we will

begin with Mr. Lemus from the Sacramento Metropolitan Air
 Quality Management District.

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MR. LEMUS: Good morning, Chair Nichols, and to CARB Board, and staff. My name is Jaime Lemus and I'm a senior manager with the Sacramento Metropolitan Air Quality Management District. I would like to take a moment to thank the Board for the opportunity to speak to all of you today in support of the proposed FARMER Program guidelines.

10 As mentioned in the letter from our Sacramento 11 Valley Basin-Wide Air Pollution Control Council to the ARB, the Sacramento Metro Air District and our four 12 13 regional partner districts believe that the transition of 14 the agriculture industry to cleaner technologies is 15 critical to achieving key climate change and public health 16 objectives, air quality, employment and GHG reduction 17 qoals statewide.

Continued funding is needed for realizing 18 19 additional emission reductions from this sector, in order 20 to support these important objectives in our region. The 21 Sacramento Metro Air District supports this year's 22 proposed FARMER Program guidelines and revised funding 23 distributions as we believe they are more aligned with the 24 FARMER -- with the farm equipment emission inventory in 25 our region.

I should point out our support for the proposal comes in spite of the net reduction of funding to our 2 3 district, and in favor of more funding for our partners in We'd also like to commend the CARB Board and 4 our region. 5 staff for continuing to commit grant dollars to б agriculture, one of the State's most important industries.

In the Sacramento Valley, we have been able to 7 8 modernize hundreds of pieces of heavy-duty farm equipment 9 simply by making the clean equipment cost effective for 10 farmers, and we are ready to do more of this with ARB's 11 help. The FARMER Program is an excellent opportunity, and we look forward to working with CARB to put these funds to 12 13 work for our regional agriculture industry and community 14 to reduce emissions and keep California at the cutting 15 edge of clean low-carbon transportation energy.

16 Once again, I would like to thank you for the 17 opportunity to speak today.

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CHAIR NICHOLS: Thank you, Mr. Lemus.

Mr. Wagoner.

20 MR. WAGONER: Good morning, Chair Nichols and 21 Board members. My name is Jim Wagoner. And I'm the Air 22 Pollution Control Officer at the Butte County Air Quality 23 Management District. I want to thank you for considering 24 today this very important program that will be getting 25 emission reductions specific to the ag sector. And I

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1 think that's a very important milestone that we're 2 reaching today.

3 My board is supportive of this program and 4 submitted a letter of support for the record. It should 5 be with your materials. We support allocating funds б significantly towards the emission inventory of this 7 sector, which is what the revised proposal does. Μv 8 district has a current robust Carl Moyer Program in 9 effect. And we've had it in effect for 19 years. The ag 10 sector has been a very active participant in this program 11 of ours, and it's been very much over subscribed, so we 12 know we can do the projects.

We look forward to participating in this program and making it a success. We hope it will continue in future years.

Going forward, we hope that working with staff and CAPCOA, that CAPCOA can -- we work a way that CAPCOA can be an administrator for the \$5.5 million that are set aside for the districts that are not getting a direct allocation.

And also we've talked to staff about we think there's a need to go and review the inventory of the ag sector equipment just to make sure that we have the most current information. Again, going in future years, we feel that allocation should be based substantially on the

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1 inventory in the districts.

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Thank you again.

CHAIR NICHOLS: Thank you.

MR. JORDAN: Good morning, Chair Nichols, members of the Board. I'm Tom Jordan, with the San Joaquin Valley Air District here to speak in support of the guidelines and to thank ARB for recognizing the huge need in the valley for these funds, and in the allocations.

9 This is a key component as we move forward to 10 attain federal standards for PM and ozone. It's one of 11 the largest categories along with trucks in the valley 12 that -- for NOx. We've partnered with the ag industry 13 over the years, which is -- as was mentioned in the staff 14 presentation, replaced over 5,000 tractors, with over 15 30,000 tons of NOx reduced.

Similar programs partnering with the ag industry with ag pumps, we've also replaced 7,000 agricultural irrigation pumps, mostly with electric. So this is -this program has been a huge success story in how we can move forward with industry and get large emission reductions

So I want to thank you for the allocation, and we are staffed up ready to go. We actually have applications in hand that total more than that allocation is. So we hope to be able to put those dollars to work quickly

Thanks again.

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CHAIR NICHOLS: That's great. Thank you. MR. DESSERT: Good morning, Board Chair. Matt Dessert, Air Pollution Control Officer for Imperial County. We look forward to participating in this program and greatly appreciate the revised allocations. We are a big ag community, big in acres, big in water, low in population. This program specifically will work well for our cattle industry, which is the number one economy in ag industry for Imperial County.

11 The feed yards have many water trucks designated 12 as ag with low mileage. We're looking at targeting those. 13 We already have a pretty good allocation of projects 14 entirely to take care of this funding amount. As an 15 additional benefit, we believe that those new water 16 trucks, or the tractors that will pull those water wagons, 17 will be used more, and additionally to help us with PM10 18 non-attainment issues.

So there's additional benefits to it. Thank you again for the opportunity. We've -- are in our 20th year. We've just -- working on our 19th year for Mr. -- Carl Moyer Program. It's a very successful program, and we look forward to additional opportunities in the future. Thank you.

CHAIR NICHOLS: Thank you.

MR. ISOM: Good morning, Madam Chair, members of the Board. CHAIR NICHOLS: Good morning. MR. ISOM: Step back a little bit. Maybe I don't need it. Good morning. Roger Isom, California Cotton Ginners and Growers Association and Western Agricultural

7 Ginners and Growers Association and Western Agricultural 8 Processors Association.

9 I want to start by just addressing some of the 10 opening comments by the Chair. One important item that we 11 have to remember about ag is the inability to pass along the cost. It's the difference between the construction 12 13 folks and the trucking is that we can't that. We're subject to a world market. And so that's what -- that's 14 15 the difficult. I don't know that I would call our 16 equipment jalopies, Erin --

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(Laughter.)

18 MR. ISOM: -- but it is old, and it's difficult
19 for us to replace it.

But today, we should be -- we should be celebrating. This is a monumental item for us for the agricultural industry and for everybody really. In every instance, where ag has been brought to the table, we have not only met our goals, we've exceeded our goals. We can go back to the conservation management practices for PM10, 1 where we exceeded what the goal was. We could talk about the tractors as the staff brought up. 2

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We not only met the goal, we exceeded it before 4 the date -- before the rule ever would have went into effect. And the thing to remember is we've never stopped since that point. We have continued to seek out additional funds. This very deal right here was ag's pressure to try to bring more funds to the district, and to the entire state.

10 This reallocation helps spread that across the state, and continue this funding as we move forward. 11 Ιt is also important to recognize that this not only 12 13 addresses the criteria pollutants, which for us is the 14 most important item, it is going to help on the 15 greenhouses gas side of it as well.

16 So it's a historic moment. These numbers that 17 we're talking about today is going to replace a lot of 18 And it's going to do it before you even equipment. 19 adopted the SIP. This SIP is going to be later this year. 20 This money is going to be spent, reductions are going to 21 be generated, and we're already working on subsequent 22 year's budgets to try to make sure that this is continued.

23 So again, this is a time we should celebrate. Thank you guys for the opportunity to comment, and just 24 25 encourage you to support as proposed.

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Thank you.

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CHAIR NICHOLS: Thank you.

3 MR. PRONSOLINO: Good morning. My name is Dan 4 Pronsolino with Cortina Hulling and Shelling and the 5 Western Ag Processors Association. Cortina operates two 6 large almond hullers in the Sacramento Valley.

And I'm here just to add two additional points. One about the Sacramento Valley specifically being in attainment and the critical role that these programs play in keeping these air districts that currently are in attainment in attainment.

Replacing this equipment takes time, and we want 12 13 to make sure that we preserve the good air quality that we 14 do have in some of these districts. And while we 15 completely support the decision to allocate a majority of 16 these funds to the Sac -- to the San Joaquin Valley to 17 deal with their nonattainment issues, we do want to 18 emphasize the importance of still supporting other air 19 districts that currently have better air quality, so that 20 we can preserve that air quality and stay ahead of the 21 curve so to speak, and not fall into some of the nonattainment issues that have been faced in the San 22 23 Joaquin.

Also, to comment on something Roger mentioned, the global economy that we all face, particularly with

1 almonds, we cell our crop -- a majority of our crop in export, at least with our company, and we do compete about 2 3 other producers, particularly Australia and the 4 Mediterranean region. And our industry is extremely 5 capital intensive. I know in my career the first time б that we brought a large front-end loader in the late 7 nineties, it was a large Caterpillar loader, it cost 8 \$128,000. The most recent one we bought cost a little 9 over \$300,000.

And that's largely due to the emissions technology that's outfitted on these machines, as well as some other modernization, but that's -- that's a big driving factor.

Idm I'm currently consulting on a large project in Australia. They were able to purchase some Chinese manufactured machines that are virtually identical to the Caterpillars, but they're outfitted with tier zero engines, and they were sold for 68,000 Australian dollars new just in this last month.

20 So the cheap equipment that they're able to 21 purchase with no emissions equipment gives them an extreme 22 advantage. And while I'm not advocating for that at all, 23 these type of funding programs help us to compete with 24 some of these foreign competitors who are able to purchase 25 equipment that is significantly cheaper, because they are 1 not complying with these same air emission standards.

So thank you very much for putting this proposal out. It's critical to helping our industry modernize and keep these air quality standards in the Sacramento Valley that we've been able to enjoy.

Thank you.

CHAIR NICHOLS: Thank you.

MR. TONA: Good morning, Chair Nichols and members of the Board. My name is Joseph Tona, and I'm the Air Pollution Control Officer for the Tehama County Air Pollution Control District.

12 I'd like to thank you for the opportunity to come 13 down here today to support the FARMER Grant Program, that 14 if approved and implemented would result in reductions in 15 emissions from the agricultural operations throughout the 16 State.

17 Districts are passionate about assisting the 18 agricultural sector in achieving emissions reductions. 19 The Carl Moyer Program and other incentive programs enjoy 20 significant public support by our local communities. 21 Programs like these allow districts to fund projects in a 22 way that is transparent and provide quantifiable emissions 23 reductions to help meet the state's criteria toxic and 24 greenhouse gas emission reduction goals.

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Year after year, the Tehama County Air Pollution

Control District's Carl Moyer Program is oversubscribed by about 100 to 200 percent. The FARMER Grant Program would 3 enable us to achieve greater emissions reductions for our 4 local communities and the state. We look forward to 5 working with the CARB staff on this program in the future. б Thank you again for this opportunity to comment.

> CHAIR NICHOLS: Thank you.

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MR. MONTEIRO: Good morning. Darrin Monteiro with California Dairies, Incorporated. I'm the director of government relations.

11 I want to thank you for our comments earlier, Chair Nichols. You echoed kind of the dairy sentiment 12 13 right now, right? I mean, dairies are operating right now 14 about 25 percent below the cost of production. And they 15 want to partner in this effort. And the only way to do so 16 is through incentive fundings.

17 We have dairy liquidation sale happening almost 18 So without incentive funding, they -- they would weekly. 19 not be able to compete in help -- in achieving some of the 20 reductions in emissions that -- that are required of them.

21 I'd like to thank you for the option to speak 22 today, and in support of this program.

Thank you.

CHAIR NICHOLS: Thank you.

MS. CREAMERS: Good morning Noelle Creamers with

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the California Farm Bureau Federation.

I want to start by thanking Air Resources Board staff. I know generally when you have new programs, you have a longer time period to be able to implement them. And this has very specific deadlines for when that money has to get out the door. And I really appreciate ARB staff's effort on getting these guidelines before the Board.

9 This is so important, as you've heard from many speakers, to provide funding to help our farmers and 10 11 ranchers to purchase new equipment and help clean the air. 12 We are absolutely supportive of the new allocation and 13 appreciate the changes so that more money can get into the 14 districts where the farmers are residing and this 15 equipment is. And we look forward to working with the 16 districts to get that money out the door and get cleaner 17 equipment on the road.

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Thank you.

CHAIR NICHOLS: Thank you.

20 MS. CECIL: Good morning. My name is Colleen 21 Cecil. And I'm the executive director of the Butte County 22 Farm Bureau, a nonprofit agricultural organization in 23 Northern California. It's my honor to represent the 24 farmers and ranchers of Butte County today, who annually 25 provide the foundation for our local economy with farm

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gate value agricultural production upwards of \$800 million each year, when we farm such crops as almonds, walnuts, rice, cattle, olives, and olives which are used for canned black olives and green olives, and everyone's favorite California olive oil.

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I want to thank you for the opportunity to provide comments on the revised funding allocation for the FARMER Program. The Butte County Farm Bureau supports the allocation of funding with 80 percent being directed to the San Joaquin Valley Air District and the remaining 20 percent being shared with counties like Butte, where agricultural emissions are greatest.

In Butte County, you can be certain the funding will be put to good use. Our county has benefited from other programs like Carl Moyer, and we're are confident more of our farmers will participate once the pro -- this program becomes available.

18 Our area is made up of many small- to 19 medium-sized farming operations with individual owners 20 who, on average, farm 80 to 100 acres. As groundwater is 21 a major source of our irrigated agricultural, irrigation 22 pump engine replacement will continue to be a priority. 23 And as the entire agricultural industry, up and down the state, struggles with finding adequate labor, the FARMER 24 25 Program will help replace aging and slower harvesting

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equipment with newer and more efficient equipment.

As a membership advocacy organization, the Butte County Farm Bureau has already committed to the Butte 4 County Air Quality Management District our support to assist them in getting the word out to our 1300 members, as well as to the agriculture community as a whole about the availability of the FARMER Program, and we are eager to get started.

9 Besides my role at the Butte County Farm Bureau, I, too, am a farmer alongside my husband where we have a 10 11 small young walnut orchard in neighborhood Glenn County, 12 where ag is also the primary economic driver. As a 13 young-ish couple, we both work full-time jobs off the farm 14 to be able to maintain our small orchard, where we are 15 raising our two young boys. And it's programs like the 16 FARMER Program that will allow us to farm our 20-acre 17 parcel ourselves, instead of contracting with someone to 18 do it for us, and at the same time passing on a passion 19 for farming to our boys.

20 We thank the staff for listening to our concerns 21 and appreciate your efforts to see the funds, directed by 22 the legislature to help farms and ranches reduce 23 emissions, be put to work quickly in our agricultural 24 communities.

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Thank you.

1 MR. BUTTNER: Good morning. Paul Buttner with 2 the California Rice Commission. 3 For all the reasons mentioned by my fellow ag 4 colleagues, I'm just here to support the regulation and 5 appreciate staff's efforts to come up with a good proposal б for us today. 7 Thank you. 8 CHAIR NICHOLS: Thanks. 9 MS. PRICOLA: Good morning. Kay Day Pricola. Ι 10 represent -- I'm the executive director of two 11 organizations, the Coalition of Labor, Agriculture and Business in Imperial County, and also the Imperial Valley 12 13 Vegetable Growers. 14 I'm going to pretend this is the Oscars and 15 there's a jet ski for the shortest speech. 16 (Laughter.) 17 MS. PRICOLA: First of all, thank -- we'd like to 18 thank the staff for coming to our remote part of the 19 world, and then I'd like to thank everybody for listening. 20 We are the 10 large -- 10th largest ag community. And we thought we deserved a little bit more for the need. 21 22 Thank you. 23 MS. MOHAMED: Good morning, Chair Nichols and 24 My name is Brea Mohamed. I'm the executive Board. 25 director of the Imperial County Farm Bureau.

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First of all, I would like to take[SIC] staff for taking the time to listen to and address concerns brought up during workshops regarding the funding allocation method. Also, thank you for bringing a workshop to the Imperial County where we too were able to have our voices be heard.

7 During the workshop in Imperial County and during 8 other workshops too, concerns were brought up regarding 9 the formula used to allocate funding for the FARMER 10 Program. We were very thankful that those concerns were 11 heard by staff and the new formula is primarily based off 12 of emissions from ag equipment. This allocation allows 13 funds to be distributed towards productive agricultural 14 areas and provides significant assistance to areas with 15 the most engines that would benefit -- that would benefit 16 from this help.

The FARMER Program funds will be very beneficial to help farmers invest in new trucks and off-road equipment, so that older higher-emitting engines can be removed from use. We appreciate the Board and staff's efforts to getting this program in place and funds available to help farmers and ranchers quickly proceed. Thank you.

24 MS. JONES: Good morning. Devon Jones, Mendocino 25 County Farm Bureau. So again, I won't reiterate. We

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appreciate staff listening to our concerns from agriculture. And looking at supporting the funding of the allocations from the FARMER Program based on ag equipment inventory.

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I have a little bit of a different perspective though from what you've heard this morning is I'm from one of the 18 districts in the one percent. We do have a lot of agriculture in these one percent counties. And the Board is well aware that regulations and compliance requirements are applied across the board whether you're one percent or the other 99.

12 So for that, I do appreciate the 5.6 million 13 being reallocated and increased for the one percent 14 districts, but I will ask today that a process be 15 established and moved forward so that those districts 16 within the one percent have a clear direction on how to 17 apply for those monies. We do have projects available. 18 For example, in the next couple of years, 100 plus 19 stationary diesel irrigation pumps in Mendocino County are 20 due to be replaced, and they're not cheap.

The average cost for one of our farmers is between \$25,000 to \$55,000 for a single engine. And for a family farm, most of my members have anywhere from three to eight pumps I'd say on average, so that's not a small cost.

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And so the sooner we have that process in place, we can do staggered applications, we can prepare them in time to start working on those replacements.

So for that, I will be quick. I just want to thank the Board for listening to our concerns today, and appreciate getting the program in place. Thank you.

CHAIR NICHOLS: Thank you.

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8 MR. EDER: Good morning, Board. Harvey Eder, 9 speaking for myself and for the Public Solar Power 10 Coalition. On the list today it only lists me. This was 11 true yesterday. Public Solar Power Coalition was not 12 cited with my name, and this isn't right.

Anyway. Support helping farmers and agriculture. I lived on a farm in Iowa when I was 15 for the summer, and I was in the Pardes Matallin[phonetic] in '68, the citrus orchards in northern Israel. My brothers -- and we've got three generations of commercial fisherman in our family up in Oregon.

And I think that our rural areas need to be assisted as much as possible, and that solar should be used. No natural gas or fossil fuels, et cetera. It's against State policy, and we need to work on this and implement this ASAP, as soon as possible.

The fact that you've got more land available is good. Prices on solar from 2010 to 2016 has gone down

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like 73 percent. And we're close to -- and looking at future numbers for storage as well. It's come down quite a bit, both battery electric other types of storage as well as thermal storage, which had been dealt with in the past, but is coming up now.

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So I would like to encourage CARB to work also with the PUC, and the CEC, and the Office of Planning and Research, the Governor's office, and working on these plans for immediate total solar conversion.

We've got Senate Bill 100, de León. He said that he wished he'd gone for 100 percent in 2030 a few years 12 ago. And that going for 100 percent by 45 a couple months ago, Governor Brown was quoted in the New York Times as 14 saying we could do it by 2040.

15 Jacobson and Delucchi out of Stanford and UC 16 Berkeley have published by 2030 100 percent from wind, 17 water, and solar and have done -- this was in the November '09 cover article of the Scientific American the month 18 19 before Copenhagen in '09.

20 All right. Thank you. Bye. 21 CHAIR NICHOLS: Bye. 22 Genevieve Gale. 23 MS. GALE: Good morning, Board members. 24 Genevieve Gale, CVAQ and I'm also representing the 25 Coalition for Clean Air today.

I'm in strong support of this program and also your excellent staff that have been leading this effort. I also want to thank the valley's agricultural industry for bringing money to the region. And also give props to the San Joaquin Valley Air District. They do run a well-oiled incentive program machine. And they're ahead of the pack when it comes to program innovation.

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I'm in strong support of the act -- of Ag Trade-Up Program. And I must mention they've just implemented a new Truck Trade-Up Program that I think is going to do some great things for the valley.

12 Mr. Corey, you have the opportunity to include 13 additional project types. So I'd like to suggest electric 14 tractors, and solar pumps and on-farm solar 15 infrastructure. And if perhaps we could think a little 16 more creativity -- creatively, what equipment is needed to 17 reduce agricultural burning in the San Joaquin Valley. Do 18 we need chippers? Do we need equipment to reincorporate 19 wood waste into the soil? Perhaps, we can think a little 20 more broadly there.

But, in general, I'm in support. And perhaps working with the district in the future, we can target some of this outreach and technical assistance to small farmers and farmers of color, and also the upper -- the owner/operators of small trucks. 2 3 4

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But thank you all for this.

CHAIR NICHOLS: Thank you.

MR. HAMILTON: Good morning, members of the Board. Kevin Hamilton, Central California Asthma Collaborative.

I wanted to echo and affirm Ms. Gale's comments. I'm not going to repeat them. I think these are great programs. I want to support the measure as proposed. I appreciate giving the Executive Director the leeway to be able to adjust as we move along with these things. That's often not available, and I think it's critical.

12 I do want to reiterate the piece about when we're 13 talking about pumps, there's a lot of issues around 14 electrifying pumps that have to do with PUC standby 15 charges and the extreme cost associated with that. It's 16 caused a lot of our farmers to move back to diesel pumps 17 because it's just -- they can't make it pencil out. So 18 this idea of solar islands for pumps should be explored, 19 piloted, and determined if that can be cost effective and work in this situation. 20

I do want to reiterate also that we need to do the outreach to small farmers. I want to thank staff for traveling down to Fresno to meet with the EJ group that we put together at our offices, and to take comments on this and to work -- commit to working constructively with us on

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this moving forward to make sure we get that money out there to our small farmers as Commissioner Eisenhut has mentioned in the past. We have poorer farmers out there, Latino farmers, Hmong farmers who are small at -- are farming small pieces of acreage and using tier 0 equipment that has been around for five generations, and we need to help them plus-up and get into some newer stuff.

So thank you very much. Appreciate your time today.

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CHAIR NICHOLS: Thank you.

MR. BROWN: Madam Chair, members of the 11 Committee. Louie Brown with Kahn, Soares & Conway. 12 We 13 represent a number of the ag organizations that testified 14 today and others that weren't able to make it here to ask 15 for your support of the resolution, to thank staff, and to 16 realize that this is the third piece of a comprehensive 17 greenhouse gas reduction financial strategy put forth by 18 the administration.

We've already seen the implementation of funding for methane digesters to reduce methane emissions in the dairy industry. Our food processing seg -- sector is working with the California Energy Commission to improve their practices and reduce their emissions, and then today's funding piece will bring all of that together by allowing the San Joaquin Valley and other agricultural

1 areas within the State to continue these strong and 2 important incentive programs that result in real 3 emissions, and really move us forward in achieving our 4 goals.

So again, recognize the hard work that staff has done to put this together in a very short period of time and we ask for your support on the resolution today.

Thank you.

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CHAIR NICHOLS: Thank you.

MR. CUNHA: Good morning. Manual Cunha with the Nisei Farmers League, also represent the California African-American Farmers, and the National Hmong Growers that are located in the five counties of the San Joaquin Valley. First, I want to thank the staff.

15 But, Madam Chair, I'd like to take a moment of 16 silence, if we could, for a young lady who made all of 17 this happen in meetings with the Governor by the name of 18 Nancy McFadden who just passed away. And a wonderful 19 lady, all the way till the very end. You couldn't have 20 asked for a better person to bring ag and the Governor, 21 Richard Corey, and others to that room that day to come up 22 with this plan to get this thing through. So if we could 23 take a moment of silence I'd appreciate that.

24 CHAIR NICHOLS: Mr. Cunha, I had planned to do it 25 right after we finished this item, but we -- I'm happy to

1 do it now. Let's do it.

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MR. CUNHA: Okay. And I'll make comments short after this. Okay. Thank you.

(Moment of silence for Nancy McFadden.)

MR. CUNHA: Thank you very much.

At this time, I want to thank Richard Corey and Kurt, especially Richard for all the time driving down in the rain and the hail and everything else that we've had in the valley. Thank, God, we're getting water. I use that carefully too.

Also, Lucina, Michelle, and Erin, you three ladies, are incredible. You have a great team. They've met with agriculture many times to come up with several big programs. The Tractor Replacement Program, Equipment Replacement Program. Agriculture puts in anywhere from 50 to 60 percent of their own money. So this is not a free program.

18 The next program was the trade-up. The Tractor 19 Trade-Up Program is the first one of its kind in the 20 country, taking a tier 3 tractor, rather than cutting it 21 up, giving it -- or not giving it, a farmer pays for it. 22 We took that money that they got for that tractor to begin 23 with and we move it to another farmer, who has a tier 0 24 that would never be able to buy a new one. I don't care 25 what anybody said. So that program is tremendous in the

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Tractor Trade-Up Program.

The third is our partners. You as ARB, Carl Moyer, all the work that Richard and everybody else has done to bring revenues in.

NRCS, Natural Resources Conversation. In 2002, we started with five million for air with -- for the State. Today, we have an average of \$19 million comes to the San Joaquin Valley for equipment replacement through USDA as a partner with your funds.

So, at this time, I really support the effort, especially the staff's hard work. It's been a tremendous partnership. And if it isn't, then somebody's missed the 12 boat, because it has been an honest partnership. No one 14 is trying to get rid of the farmers. We feed the world, and we do a great job at that.

16 And my last thing on this is on this replacement 17 program, it has to be voluntary. Farmers, we achieve the 18 goal very well.

19 And my last comment is I want to make something. 20 I just got back from New York. We have a welterweight title champion of the boxing world, 140-pound Jose Ramirez 21 22 from Avenal won the world title at Madison Square Garden, 23 who represented and fought for water, and fought for 24 immigration, and is still fighting.

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So, Madam Chair, sorry for the few minutes over.

Thank you.

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CHAIR NICHOLS: Thank you. You're excused (Laughter.)

CHAIR NICHOLS: Mr. Ayerza.

There's a special Manny Cunha exemption to the time limit. б

(Laughter.)

8 MR. TODD AYERZA: Good morning. My name is Todd 9 Ayerza. I'm with Campos Brothers. I help manage a 10 mid-sized farm in the Central Valley, San Joaquin Valley. 11 And I just want to first say how much we appreciate these 12 programs that help us reduce emissions.

We started way back in '04, '05, I believe with 13 14 the AG-ICE Program to help eliminate all of our diesel 15 More recently, the Tractor Replacement Programs to wells. 16 get rid of our tier 0, 1 tractors. And then just this 17 past year, we got involved in the Tractor Replacement Program. We had tier 3 tractors that we would have never 18 19 dreamed of getting rid of. We keep our tractors 20 historically for 15, 20 years. But this -- we were able 21 to do that and pass these on to the smaller farmers. 22 Anyway, just that. And we appreciate it. Thank you.

> CHAIR NICHOLS: Thank you.

24 Good morning, staff. MR. JOSEPH AYERZA: ThanK 25 you very much for all your partition in these programs.

My name is Joseph Ayerza. I'm with the John Deere dealership at Fresno Equipment in the Central Valley. We handle Madera and Fresno County. 3

And I just want to tell you how important these programs are for us, and for our customers, and, of course, yours customers.

7 These voluntary programs make a difference and an 8 impact in getting rid of tier 0s and tier 1 tractors that 9 are just gross pollutants out there and bringing in a 10 emissionized equipment. It makes a difference in 11 impacting the PMs and NOx in the Central Valley, and it's 12 very important.

13 And I just want to than the staff members and the 14 San Joaquin Valley Air District. They are very great to 15 work with, and just appreciate everything.

Thank you very much.

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CHAIR NICHOLS: Thank you.

We have one more witness.

19 MS. APODACA: Good morning. My name is Lori 20 Apodaca. I'm the director of regulatory affairs for California Citrus Mutual. 21

22 Our board and our members are very excited about 23 this program. We represent over 2,500 growers in the 24 State for Citrus. The majority, of course, are located in the Central Valley in Fresno, Tulare, and Kern County. 25

1 And a lot of our growers, there are small family growers. Some are just starting out, some have been in 2 3 citrus for many years, but they face challenges. We have 4 HLB, which is a fatal disease for citrus trees that we're 5 currently combating, and then we also have a water б shortage, of course. 7 And while some growers can weather that, we have 8 a lot of the smaller growers who can't. And so they're 9 not thinking about replacing equipment. They're thinking 10 about maintaining that equipment so they can use their 11 money to spend buying water. And so this is -- this is I think going to be a 12 13 really good program. I'm new to California Citrus Mutual, 14 so I haven't met all of you, but I'm sure you all know 15 Joel Nelsen. 16 So I look forward to working with you and sharing 17 this great, great program with our growers. 18 Thank you. 19 CHAIR NICHOLS: Thank you. 20 So that concludes our list of witnesses. And 21 we'll go next to Board Member Eisenhut. 22 BOARD MEMBER EISENHUT: Thank you, Chair Nichols. 23 Well, this should be easy. We've heard the chairman's 24 comments. We've heard from all of you. And I had hoped, 25 as I looked at the sheet, that Kevin had checked the wrong

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1 box, and it turned out that was the case, as we heard his
2 defendant

MR. HAMILTON: I checked the box?

(Laughter.)

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5 BOARD MEMBER EISENHUT: I just want to indicate б my strong support for this program. I appreciate the way 7 it's designed, the allocation -- the allocation is 8 impactful where there is a need, and where there is a 9 presence of equipment. And so I support that allocation. 10 I particularly support the Trade-Up Program for the 11 reasons that we've already discussed. I think there is a -- I sense, and I've heard, there is a significant 12 13 population that intersects with the environmental justice 14 population of small farmers who have that, yes, that tier 15 0 jalopy tractor that --

(Laughter.)

BOARD MEMBER EISENHUT: -- and lack the resources
jalopy to trade up. And so this program will allow that
to happen.

I do have a question. The Executive Director has certain amount of authority. If that three million is oversubscribed, does his authority allow transferring additional funds to that program?

Thank you.

MSCD OFF-ROAD AGRICULTURAL STRATEGIES AND

INCENTIVES SECTION MANAGER BUFFINGTON: Good morning. 1 Oh. 2 CHAIR NICHOLS: Sorry. Go ahead. 3 MSCD OFF-ROAD AGRICULTURAL STRATEGIES AND 4 INCENTIVES SECTION MANAGER BUFFINGTON: This is Michelle 5 Buffington. To address your question about the \$3 million б for the Ag Trade-Up Program, that money was programmed 7 into the trade up in '16-'17. The new '17-'18 allocations 8 we don't have specific bins for them to spend it on. 9 BOARD MEMBER EISENHUT: Okay. 10 MSCD OFF-ROAD AGRICULTURAL STRATEGIES AND 11 INCENTIVES SECTION MANAGER BUFFINGTON: So once they have expended the \$3 million from '16-'17, we anticipate that 12 13 San Joaquin will continue to feed that program with some 14 of their '17-'18 funds. BOARD MEMBER EISENHUT: Okay. 15 Thank you. 16 CHAIR NICHOLS: Okay. Well, this is one of those 17 rare days. Yes. You didn't pop up on the screen. 18 Now you do. Okay. 19 (Laughter.) 20 CHAIR NICHOLS: Dr. Sherriffs. 21 BOARD MEMBER SHERRIFFS: I'm challenged when it 22 comes to these electronic devices. 23 (Laughter.) 24 BOARD MEMBER BALMES: And he's even a farmer. 25 CHAIR NICHOLS: I know.

BOARD MEMBER SHERRIFFS:

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CHAIR NICHOLS: You may have a conflict of interest.

(Laughter.)

BOARD MEMBER SHERRIFFS: Yes, I have a conflict of interest, but I'm not planning on applying for any of these funds.

Yes.

8 You know, this is a great example of, you know, 9 we think of farming as conservative. No, no, farming is 10 innovative, farming is into investment, but people in 11 farming have to be careful because there's so much that's 12 not controlled. And weather and the global markets are 13 just a couple of examples. But farmers are eager to find 14 the next best thing, find a way to improve what's being 15 done. And this clearly is an example of that on a 16 statewide basis.

The co-benefits are obvious, in terms of air quality issues, greenhouse gases. And it's why the lion's share of this goes to the Central Valley because of the air quality issues.

But, yes, this needs to be distributed throughout the State and to engage farming operations throughout the State. And staff has done a good job of reallocating and wrestling with that issue.

You know, I know we're not supposed to compliment

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staff, but --

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CHAIR NICHOLS: Oh, it's okay. You can do it. BOARD MEMBER SHERRIFFS: But -- well --(Laughter.)

5 BOARD MEMBER SHERRIFFS: -- you know, yesterday б one of our big themes was let's not delay. Why are we 7 pushing things back? How can we move them forward? And 8 this is an incredible example of moving things forward and 9 getting money spent not next year or the year after, but 10 this year. And that reflects on staff's hard work, 11 staff's going out, and to the response the ag industry 12 being able to be there and respond. So it's a great 13 example. It's a great example.

14 And this is particularly important because this 15 is not a one shot. There are -- we anticipate ongoing 16 funding, and we're going to be coming back next year and 17 looking at this. And so we need to build on these 18 So it's yet another reason why it's important successes. 19 to get that money out the door, see what's working, see 20 what's getting us the most benefits. And it's a great compliment to a number of districts that have been able to 21 22 organize and they're ready. They're not going to plan 23 once we say, yes. No, no they're ready. If we say yes, 24 it will happen this afternoon. So that's -- that's --25 that's wonderful.

1 Just thinking again this is ongoing, and I think there have been some great suggestions of things we need 2 3 to think about. Yeah, the Trade-Up Program is likely to 4 be very successful. Great bang for the buck. And so 5 probably looking at how we're going to expand funding for б that in the future. And some great suggestions about, 7 yes, how do we integrate more in terms of electrification 8 of solar, and is there a way that this is going to help us 9 in terms of ag waste management? And so thinking 10 creatively in terms of the future. So thanks to everyone 11 for their participation. 12 I'm sorry, staff, that I complimented you and 13 called you out. 14 (Laughter.) 15 CHAIR NICHOLS: Thank you. 16 Judy Mitchell. 17 BOARD MEMBER MITCHELL: Thank you. 18 A couple of comments were made that I think bears 19 some merit. And I don't know whether we have ever done an 20 ag equipment inventory. Staff, have we done that? MR. HAMILTON: We asked for it. 21 22 (Laughter.) 23 MSCD OFF-ROAD AGRICULTURAL STRATEGIES AND 24 INCENTIVES SECTION MANAGER BUFFINGTON: Yes. Actually, in 25 2008, staff conducted a statewide survey to build an

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agricultural inventory. There is a high level version of that posted on-line. And that's what we actually used to do -- to build our distribution formula. But we have heard from the stakeholders and from the air districts that there is some -- they would like for us to update it. And so staff is working towards figuring out the best way to go about building up the next inventory.

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8 BOARD MEMBER MITCHELL: Good. I think that that 9 would be good program. And since we're looking at a 10 Trade-Up Program, it would be sort of be the bedrock of a 11 Trade-Up Program, you know, where equipment is, and you 12 can get rid of 0 -- tier 0 jalopies, as we've been calling 13 them, and move up to a higher grade. So I think that's a 14 great idea.

15 Thank you, staff. I'll put that in there too. 16 And I'm very supportive of this program. San Joaquin is a 17 nonattainment area that shares that distinction with my 18 district. And I think we really need to put money into 19 San Joaquin to help them reach attainment. So I'm very 20 supportive of this.

21 CHAIR NICHOLS: Okay. I do not see any other 22 speaks in the queue. So I think we can proceed to a 23 decision. I can't resist adding just one thing, which is 24 that I think this will be -- were you ready to -- waving 25 at me.

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BOARD MEMBER BALMES: No, no. I was ready to make a motion.

3 CHAIR NICHOLS: Oh, okay. You could -- I just 4 want to say one other thing, which is that the source of 5 the funds -- the principal source of the funds is the Greenhouse Gas Reduction Fund, which is now ongoing thanks 6 7 to legislation that was really shepherded through the legislature to the two-thirds vote that it needed by Nancy 8 9 McFadden. So I wanted to close the loop on that -- on 10 that. And it's going to come up time and time again as we 11 go forward, I think, over the months ahead, that her 12 finger prints are on so many of the good things that we 13 get to do. So thank you for the -- for that.

And now, would you like to make a motion?

BOARD MEMBER BALMES: And before I make the motion, I would like to say this is well spent money from the Greenhouse Gas Reduction Fund.

So I would move that we accept the staff proposal.
BOARD MEMBER SHERRIFFS: Second.
CHAIR NICHOLS: And a second.
All in favor please say aye?

23 (Unanimous aye vote.)

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CHAIR NICHOLS: Any opposed?

Any abstentions?

Seeing none, it is unanimously adopted. And thank you all, staff. Good job.

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And I echo the praise in terms of your going out and consulting too. That was really -- it helped to get 4 us to this point, so thank you.

I'm going to race along without a break here, because I know we're in danger of losing at least a couple of our members who have other obligations. So let me just start the -- start with the opening statement before the staff are fully in place.

11 The next item on the agenda is Item 18-2-9, a public hearing to consider the proposed regulation for 12 13 prohibitions on use of certain hydrofluorocarbons in 14 stationary refrigeration and foam end-uses.

15 The Board will consider a regulation to reduce 16 emissions of hydrofluorocarbons, or HFCs, which are 17 powerful short-lived climate pollutants. The proposed 18 regulation is to adopt as California regulations something that had been a federal prohibition on the use of certain 19 20 high global-warming potential HFCs in stationary 21 refrigeration and foam end-uses.

22 This sounds very technical and difficult to 23 pronounce, but it's very important stuff when it comes to 24 the immediate threat to our climate.

The federal restrictions however were recently

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vacated by a court, and the proposed regulation ensures that, at least in California, we will be able to maintain 3 their emissions benefits.

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Mr. Corey, would you please introduce the item? (Thereupon an overhead presentation was presented as follows.)

EXECUTIVE OFFICER COREY: Yes. Thanks, Chair. SB 1383 authored by Senator Ricardo Lara also

8 9 required CARB to approve and implement a plan to reduce 10 emissions of short-lived climate pollutants by 40 percent 11 below 2013 levels by 2030. You approved that plan 12 spelling out a strategy for reaching the HFC emission 13 reductions targets previously.

14 The U.S. EPA's Significant New Alternative 15 Policy, or SNAP, Program rules 20 and 21 were a critical 16 part of this strategy accounting for approximately 20 17 percent of the HFC emission reductions needed.

However, on August 8th, 2017, in Mexichem Fluor, 18 19 Inc. versus EPA, the D.C. Circuit Court of Appeals ruled 20 that U.S. EPA does not have authority to require companies 21 to replace high global warming potential HFCs with lower 22 global warming potential substitutes under rule 20.

23 In light of the court ruling, California can no 24 longer rely on U.S. EPA's SNAP Program rules as a 25 originally stated in the Short-Lived Climate Pollutant

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Strategy. In order to preserve HFC emission reductions in California expected from the U.S. EPA's SNAP Program 3 rules, CARB is proposing to adopt key prohibitions from U.S. EPA SNAP rules into State law. 4

5 I'll now ask Glenn Gallagher of the Research б Division to begin the staff present.

Glenn.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: Thank you, Mr. Corey. Good morning, Chair Nichols and members of the Board.

11 Today, we will present Board Item 18-2-9, a proposed regulation for prohibitions on use of certain 12 13 hydrofluorocarbons in stationary refrigeration and foam 14 end-uses. The intent of the regulation is to preserve and 15 continue in California some of the U.S. EPA's prior 16 prohibitions on high global warming hydrofluorocarbons.

Last year, a decision by the D.C. Circuit Court of Appeals limited U.S. EPA's authority in this area.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: 20 In 21 today's presentation, we will provide background 22 information on the need for regulatory action, describe 23 the proposed regulation, and conclude with our 24 recommendation for 15-day changes.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: 1 First, 2 some background on hydrofluorocarbons and their emissions. 3 --000--STAFF AIR POLLUTION SPECIALIST GALLAGHER: 4 5 Hydrofluorocarbons, or HFCs, are potent б short-lived climate pollutants with global warming 7 potentials hundreds to thousands of times greater than 8 carbon dioxide. 9 For example, just one pound of R-404A, an HFC refrigerant used in supermarkets, has the global warming 10 11 potential of almost two tons of CO2, equivalent to driving 12 a car more than 4,000 miles. 13 Fortunately, alternatives with lower global 14 warming potentials are commercially available with some in 15 very wide usage. 16 --000--17 STAFF AIR POLLUTION SPECIALIST GALLAGHER: 18 Currently, HFCs comprise four percent of all 19 greenhouse gas emissions in California. However, they're 20 the fastest growing source of greenhouse gases in our 21 state and throughout the world. Without further controls, 22 HFC emissions will double in 20 years. 23 In 2016, Senate Bill 1383, authored by Senator Lara, established a goal to reduce HFC emissions 40 24 25 percent below 2013 levels by 2030.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: In 2030, under business-as-usual conditions without further regulations, we estimate that almost 80 percent of HFC emissions will be from stationary refrigeration, and stationary air conditioning.

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7 Including mobile AC and transport refrigeration, 8 refrigerants make up more than 90 percent of HFC 9 emissions. To a lesser extent, HFC emissions also come 10 from aerosol propellants, foams, solvents and fire 11 suppressants.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: This chart summarizes the short-lived climate pollutant strategy for HFC reductions adopted by the Board last March. Business-as-usual emissions are about 27 million metric tons of CO2 equivalents in 2030.

The SB 1383 goal shown in green means that California must emit no more than 10 million metric tons of CO2 equivalents by 2030. Attaining this goal is 10 percent of the entire greenhouse gas reduction strategy described in the scoping plan adopted by the Board last year.

The top of the bar chart shaded in light blue shows potential reductions of 26 percent that can achieve

by the international Kigali amendment or HFC phase-down, if ratified by the United States. An additional 24 percent reduction was expected from the U.S. EPA's SNAP rules shown in orange.

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5 The remaining emission reductions shaded in pink 6 must be achieved by additional CARB regulations.

Now, we'll update you on these three different strategies.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER:

International efforts to reduce HFCs will be achieved by the Kigali amendment to the Montreal Protocol to phase down the production of HFCs, eventually applying to all countries.

15 The first step of the phase-down applies to 16 developed countries and begins next January. The United 17 States signed the Kigali amendment in November 2016, but 18 has not yet taken action to ratify it through the U.S. 19 Senate. And if ratified, it would still need to be 20 implemented by the U.S. EPA.

Although the Kigali amendment should significantly reduce HFC emissions by 2050, it will not Be sufficient by itself to help California achieve its SB 1383 reduction goal by 2030.

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1 STAFF AIR POLLUTION SPECIALIST GALLAGHER: EPA's 2 Significant New Alternatives Policy, known as SNAP, 3 implements section 612 of the amended Clean Air Act of 4 1990, which requires EPA to evaluate replacements for 5 ozone-depleting substances to reduce overall risk to human 6 health and the environment. These replacements include 7 HFCs.

8 EPA applied this authority to prohibit high 9 global warming potential HFCs in new equipment and 10 materials as viable lower GWP alternatives became 11 available. However, last year, the federal D.C. Circuit 12 Court of Appeals decided that EPA cannot require 13 replacement of HFCs in many circumstances.

14 CARB staff would support EPA reading the decision 15 narrowly and adopting national HFC rules under their other 16 existing authorities.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER:

California was relying on the SNAP rules to meet 20 24 percent of our HFC reduction goal, leaving us with an 21 emission reduction gap of more than four million metrix 22 tons of CO2 equivalents.

STAFF AIR POLLUTION SPECIALIST GALLAGHER: SB1013, the California Cooling Act, authored by Senator Lara

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is currently awaiting hearing in the Senate Environmental Quality Committee, and would place all of the SNAP HFC prohibitions into State law.

In contrast, the proposed regulation under consideration today would preserve emission reductions from select sectors with past or shortly upcoming effective dates, but does not backstop all of the potential losses due to the court ruling. A future HFC rulemaking will cover additional measures identified in the SB 1383 short-lived climate pollutant strategy.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER:

13 Fortunately, the HFC reductions needed are 14 achievable because refrigeration technology has become 15 increasingly green. Refrigerants have transitioned from 16 ozone depleting and high global warming to non-ozone 17 depleting and low global warming. These low GWP 18 refrigerants include hydrofluoroolefins, or HFOs, and 19 natural refrigerants, such as carbon dioxide, ammonia, and 20 hydrocarbons.

21 Natural refrigerants have been used in -- have 22 been in use today since the 1800s and are used in 23 thousands of retail food stores today.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: The

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1 global transition to low global warming potential 2 refrigerants is well underway. The European Union is 3 currently implementing more ambitious HFC reduction 4 measures than those proposed here.

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Canada recently adopted measures similar to the aforementioned bill, SB 1013. Australia and Japan also have HFC reduction programs. Most of the affected industry serve a global market and are preparing for one low GWP solution, and many manufactures and users in the U.S. have all already adopted lower GWP technologies.

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12 STAFF AIR POLLUTION SPECIALIST GALLAGHER: Now,13 I'll describe the proposed regulation

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15 STAFF AIR POLLUTION SPECIALIST GALLAGHER: The 16 proposed regulation focuses on commercial refrigeration 17 equipment and foam types with past and shortly upcoming 18 compliance dates under the partially vacated SNAP rules, 19 and will prevent backsliding of manufacturers from using 20 high global warming HFCs again. Most manufacturers have 21 already transitioned or begun the transition to lower 22 global warming alternatives.

The regulation would make the SNAP prohibitions enforceable in California with an estimated 3.4 million metric tons of CO2 equivalent reductions annually by the

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year 2030.

3 STAFF AIR POLLUTION SPECIALIST GALLAGHER: The 4 proposed regulation applies mainly to equipment 5 manufacturers. Prohibited HFCs may not be placed into new 6 equipment and materials that are sold, used, or entered 7 into commerce in California for the following end-uses:

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8 Supermarkets and remote condensing units, which 9 are small refrigeration systems used by convenience 10 stores; refrigerated food processing and dispensing 11 equipment, for example, slurpee machines and frozen yogurt 12 dispensers; stand-alone or small self-contained 13 refrigeration units, also known as plug-ins; refrigerated 14 vending machines; and foams used in buildings and other 15 uses.

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17 STAFF AIR POLLUTION SPECIALIST GALLAGHER: This 18 chart shows the end-uses from the previous slide, and 19 lists the HFC prohibition date, along with the current 20 industry status for HFC replacements. All of the end-uses 21 have available alternatives today.

22 The preferred alternative for vending machines is 23 propane refrigerant, which is not allowed in some 24 locations.

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1 STAFF AIR POLLUTION SPECIALIST GALLAGHER: The 2 requirements of the regulation are largely the 3 responsibility of the manufacturers who cannot use 4 prohibited HFCs in new refrigeration equipment or foams. 5 Record keeping of the types and numbers of equipment 6 entering California are required of all manufacturers.

A disclosure statement must certify that the product uses only compliant refrigerants or foam expansion agents.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER: The total cost of this regulation statewide is estimated at \$4.25 million over 20 years, or about \$210,000 per year across all manufacturers to comply with the HFC prohibitions, as well as the record keeping and disclosure statement requirements.

17 The Greenhouse gas reduction cost is less than \$118 per metric ton of CO2 equivalent reduction.

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STAFF AIR POLLUTION SPECIALIST GALLAGHER:

21 Stakeholders generally support CARB's efforts to 22 preserve the SNAP prohibitions because it provides more 23 certainty to industry. Many manufacturers have already 24 made significant investments in using alternatives to high 25 global warming HFCs. Some stakeholders would like CARB to

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1 adopt all of the SNAP prohibitions. We focused on the past and shortly upcoming prohibitions. Senate Bill 1013 2 3 would cover the entire program.

4 Other stakeholders express concerns. Several 5 requested clarification that record-keeping requirements б only apply to the original equipment manufacturer, and 7 that the effective date of the HFC prohibitions applies to the date of manufacture and not installation.

9 These were always our intent, and these and other 10 clarifying edits will be added through 15-day changes.

11 Also, some manufacturers wanted additional time 12 to comply. However, approved refrigerants are available 13 today.

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15 STAFF AIR POLLUTION SPECIALIST GALLAGHER: Staff 16 recommends approval of this proposal with 15-day changes.

17 This concludes the staff presentation. We will 18 be happy to answer any questions from the Board.

Thank you.

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20 CHAIR NICHOLS: Are they any quest -- are there 21 any questions before we go to the public?

Seeing none.

23 Let's go ahead with our witnesses then beginning 24 with Mr. Messner.

MR. MESSNER: Good morning. So I'm with the

Association of Home Appliance Manufacturers. We represent, in this case, refrigerators that are in everybody's homes, so they're not actually impacted by today's, but I wanted to -- so that's why I was neutral, but I wanted to speak because of the HFC interests that we have going forward.

So refrigerators -- a reminder refrigerators in every home. They're the centerpiece of everybody's home. They're actually -- Royal Society said they're the best invention in history. They preserve food, vaccines, and they're also the most honored place for artwork, if you have a magnet to put artwork up.

(Laughter.)

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MR. MESSNER: So we, as an industry, we actually want -- are willing and want to go to isobutane, and have been for many years. There are things that have stopped us from getting there along the way.

And so we're in a position of we have said yes, yes, yes. And we keep getting things thrown in front of us that prevent industry from doing that. EPA allowed isobutane to be used. And then there are now charge size issues. Europe, you can use 150 grams of refrigerant in refrigerator. In the U.S., EPA restricts it to only 50 grams.

And so this is -- we need that increased in order

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to move forward before we can set a date, because we need time to redesign, train -- train people, because these are flammable refrigerants and we don't them in the home, children and everything, and there's repair -- it needs to get repaired in the home.

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We want to do it. We petitioned EPA for this substituted. We worked with UL.

So my ask here is to please, as you go forward in phase 2, please be focused on the data, the science, which I think you're -- we're having good conversations with your program people. But I am -- the reason -- I wasn't even going to come today, but I'm nervous on the political side. There's no -- we don't want a political battle. We don't need a political pounding of the chest. We just want to roll up our sleeves and get it don't.

And there are legi -- there's legi -- when it's in the legislature, there's political dates. Like, it's -- everything that's done in SNAP on January 19th, which is the day before Trump Administration. We need to be flexible so we can have a U.S./Canadian solution that's good for us. We want a U.S./Canadian market, and it's good for the climate.

And we're working with Canada. We're working with EPA. They actually did a rule to increase the charge size for us. So it's all working together. It

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1 unfortunately got stopped by an adverse comment by a couple individuals in New York. So we have to go through 2 3 now another rulemaking. It's an unfortunate -- it was a 4 un -- it was a noncontroversial way to do the rule -- a 5 direct final rule through -- so Administrator Pruitt was б able to do that for us, but then that means that if 7 there's any adverse comments over the matter, it cancels 8 it. 9 So I just encourage you to please stick to the

10 data and please let's all work together. We are a willing 11 partner, but we can't just leap onto dates before we get 12 other barriers resolved. And we want to get there. So 13 please just continue to work. Keep the legislative shop a 14 little more reined in.

(Laughter.)

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MR. MESSNER: Okay. Thank you.
CHAIR NICHOLS: Thank you. Yes, Hector.
BOARD MEMBER DE LA TORRE: Excuse me.
Excuse me. Did you say it was flammable?
MR. MESSNER: Yes.

21 BOARD MEMBER BALMES: Isobutane big time. Big 22 time.

23 MR. MESSNER: Yeah, it's -- isobutane is like 24 propane. These are flammable refrigerants. They're used 25 everywhere in the rest of the world, but that's -- so in

order -- the flammability they're A3 flammable 1 refrigerants. And so they're used in refrigerators 2 3 throughout the world. They weren't allowed in the U.S., 4 but they're allowed in Canada. 5 But, yes, there's only about three cigarette б lighters worth of refrigerant in a refrigerator. 7 But -- so, yes, but they are flammable. BOARD MEMBER BALMES: Just to remind you, 8 9 hydrogen is flammable too. 10 (Laughter.) BOARD MEMBER DE LA TORRE: 11 Yes. 12 CHAIR NICHOLS: Okay. Thank you. 13 MR. MESSNER: Any other questions? 14 (Laughter.) 15 CHAIR NICHOLS: Always a good reminder. 16 Mr. Eder. 17 MR. EDER: Hello there again. Harvey Eder for 18 myself and for the Public Solar Power Coalition. Solar 19 cooling and refrigeration, is the lifecycle cost 20 effective? It should be implemented. And supporting SNAP 21 and that portion of the proposal -- and in reference to 22 Senate Bill 1383, besides HFCs, they're dealing with 23 methane, which yesterday I brought to you current 24 information. 25 And in the Low Carbon Fuel Standards, there's a

big push for renewable natural gas. There's drug resistant antibiotics that are put from the landfill, the sewer, and animal feed systems waste that's put into the natural gas distribution system.

Methane should be buried preferably, put in the ground, kept in the ground, burned secondary, but never do you use -- just emitting it into the air as the Low Carbon Fuel Standard does to subsidize renewable natural gas. And it's imported. And 90 percent comes from fracking. I've been dealing with this for over 10 years with the staff, and I was told that there was no fracking in the state and this kind of thing. Anyway, it has to be 12 revisited, the issues of natural gas and 1383.

14 And solar refrigeration cooling, air conditioning 15 whenever possible. I know that they mentioned things like 16 using carbon dioxide. You've got to be like 6, 8, 10 17 times the equipment. So, anyway.

18 That's all I have to say about this for now. 19 Thank you. Bye.

> CHAIR NICHOLS: Thank you. Okay.

MR. HAMILTON: Good morning again. Kevin 21 22 Hamilton, Central California Asthma Collaborative. I do 23 want to put on the public record that I made a mistake and 24 filled out the oppose cards on two things.

(Laughter.)

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MR. HAMILTON: I've asked staff to correct that. 1 I support both of these things. 2 3 CHAIR NICHOLS: Thank you. MR. HAMILTON: That's terrible, isn't it? 4 5 CHAIR NICHOLS: They may have just done it б without even consulting you. MR. HAMILTON: Yes, don't be running my time on 7 8 that. He's making me laugh. 9 (Laughter.) 10 MR. HAMILTON: So with regard to HFAs. In 11 another life, interestingly enough, as Machinist's Mate, I came out of the service knowing how to do refrigeration. 12 When I came to California, it's what I did for the first 13 14 six years I was here. I actually started and ran a 15 company in Newhall of my own doing refrigeration. 16 So I'm very familiar with the industry, the 17 challenges it faces. These systems tend to be very 18 vulnerable to leaks over time. As we move from our R22, 19 R14, and some of the other refrigerants into C -- into 20 HFCs, the industry screamed loud and long that this was 21 never going to -- it was going to drive us under. It's 22 this and that, and now we have HFCs everywhere. 23 This is another one of those transitions that we In fact, these gases are significant 24 have to make. 25 short-lived climate pollutants. Their power is

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1 incredible, and they're ubiquitous throughout our society, especially in California, and in the San Joaquin Valley, 2 3 where we rely on refrigeration for our crop storage, 4 right? And everybody has a grocery store or somewhere 5 near their neighborhood. I won't say in their б neighborhood, because we have a lot of neighborhoods 7 unfortunately that do not, but again, a ubiquitous 8 refrigerator.

9 It is interesting that there are other ways to refrigerate things. You mentioned the isobutane. 10 When I 11 grew up, a lot of the old farms had old refrigerators that ran on natural gas, interestingly enough, with ammonia. 12 13 So that's old school. That's the way it was. An air 14 conditioning company in Sunland actually created an 15 air-conditioner called -- a company called Arctic Level AC 16 that would air condition your house much more efficiently 17 for a third of the price you paid for a regular HFA based 18 refrigerator, and ran on 110 volts, which is fascinating 19 to me.

Also, they -- you can use electricity through a process to create refrigeration. So we really need to be going deeper down that pathway. I only know this, because my brother smoked. He smoked Marlboros, and you can could get all these little credit things. And it turned out you could get a cooler that you could plug into your cigarette

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lighter in your car that was an electric refrigerated 1 cooler, and it actually cooled. I still have no idea how 2 3 it worked. I didn't want to cut it up and take it apart. 4 Well, I actually did want to do it, but I didn't, 5 so... б (Laughter.) 7 MR. HAMILTON: But the point is that this 8 technology is there. We need to continue exploring this 9 new technology. Refrigeration is key to our survival as a 10 society. I agree that it's probably the greatest 11 invention we ever had to both prevent disease and ensure 12 that our population could spread be healthy. So we need 13 to make sure we don't kill that industry. Yet, we need to 14 move forward into this new area. So I support this. CCAC 15 supports this resolution. 16 CHAIR NICHOLS: Thank you. 17 BOARD MEMBER BALMES: Kevin, I thought I knew a 18 lot about you, but I didn't know about your previous life 19 as a refrigeration guy.

(Laughter.)

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21 MR. HAMILTON: I didn't go to college till I was 22 almost 30 years old, so...

(Laughter.)

CHAIR NICHOLS: This is -- it's an extremely
interesting topic though in terms of the global problems

of trying to keep things cold and what people are trying.
 So go ahead.

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MR. MORRIS: Good morning. My name is Tom Morris. I'm with Honeywell. First, I want to thank CARB staff for their thoughtful and diligent efforts on this issue. I'm here today to say that Honeywell strongly supports the proposed regulation, but urges CARB to take further action to include other phase-out dates set in the SNAP rule 20 and 21 for all applications addressed by those rules.

11 Doing so would provide certainty for California businesses and continue the transition to low global 12 13 warming refrigerants. We applaud CARB's leadership in 14 taking steps to reduce HFC emissions, but we believe CARB 15 should take the following additional actions that will 16 have an immediate environmental impact, and send a clear 17 signal that California will continue to support and lead 18 the transition out of high global warming potential HFCs.

Firstly, with regard to aerosol propellants, CARB should adopt the phase-out dates for HFCs in all aerosol propellant end-uses covered by the SNAP rule. As far as we know, all users of 134A have already transitioned out of 134A to low-climate solutions in the regulated sectors.

24 But this is an -- on the other hand, it is easy 25 for them to revert back to using the products that they

were previously using, and we think this could have an impact of one to two million additional tons of CO2 3 equivalent, if they go back to the old product. We 4 believe this is an easy low-cost action to implement, since the transition has already occurred. 5

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Secondly, with regard to mobile air conditioning, we believe CARB should plan to phase-out 134A for mobile air conditioning as soon as possible. The SNAP rule called for a 2021 date, and we think it should be as close to that as possible.

11 Thirdly, with regard to foam-blowing agents, we 12 believe CARB should expand the list of proposed 13 applications to all of the ones covered by the SNAP 20 and 14 21 rules. While CARB has indicated that they intend to 15 address those at a later date, we think it would be better 16 to do it now. The industry needs certainty in planning 17 for future phase-outs.

18 And finally, with regard to stationary 19 refrigeration, again, we support the proposals, but 20 suggest they add the additional applications that were 21 outlined in the short-lived climate pollutant workshops.

22 Adoption of all of the dates would continue 23 long -- California's long history of demonstrated 24 leadership on environmental policy. We expect other 25 states would view these as simple straightforward

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1 approaches and would follow California's lead.

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And based on that, we want to fully support this legislation and thank you for your time.

CHAIR NICHOLS: Thank you.

MS. WALTER-TERRINONI: Good morning. Helen Walter-Terrinoni from the Chemours Company.

And I greatly appreciate the opportunity to speak with you this morning. We are part of the regulated industry, and appreciate the efforts of the program staff for their tremendous analysis and willingness to engage stakeholders in this process.

12 As has been discussed already this morning, I wanted to kind of talk a little bit about the nature of 13 14 the approach that the program staff has taken. I think 15 it's a very strong approach. We considered the following 16 as we thought through this. The State needs to be meet 17 its statutory guideline, the 60 percent of the 2013 emissions. In order to do that, they have to take -- they 18 have to use a bunch of different measures. The SNAP 19 20 Program, if they didn't adopt these SNAP rules, they must 21 shift the burden to other parts of the industry, other 22 parts of the industry that may be less prepared than the sectors that have been chosen in this case. 23

24 So, for example, we've talked about flammable 25 refrigerants this morning, right? There are some mildly

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refrigerants that are in consideration for use in air conditioning. However, safety standards and codes need to be upgraded in order for them to be used safely. This is a lengthy process. There are a number of studies that have to be completed, and it may take some time for that to be done.

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If CARB were to choose not to adopt the SNAP rules, then they would have to shift the burden perhaps in a more -- a more stringent way to these sectors that are not yet prepared for those transitions. So we think that this is a very reasonable approach that the Board is considering.

In addition to that -- in addition to that, there are a number of fluoro chemical users who have invested very heavily in preparation for compliance with the SNAP rules. And they are at risk of a stranded investment, because of the kind of pendulum swinging back and forth around these rules around the country. And so I think that there is significant frustration around that.

I did want to recommend that any new measures and appropriate -- that consideration be made for appropriate modifications to the SNAP rules. So, for example, the example that Kevin Messner made around the Association of Home Appliance Manufacturers. In that case, they're waiting for approvals to -- for the replacement product to

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1 be allowed. They can't make the transition until then. They're asking for very narrow consideration. 2 3 They're not asking for the entire product line to be 4 reconsidered, just the larger units that would require the 5 larger charge size that has not yet been approved at the federal level. 6 7 So they've been very narrow in their request for 8 leniency. And I think that that is a reasonable precedent 9 to set, rather than maybe considering large swaths of 10 industry to have differences in the SNAP rules. 11 CHAIR NICHOLS: Thank you. 12 MS. WALTER-TERRINONI: Thank you very much for 13 your time. 14 CHAIR NICHOLS: Any questions? 15 Okay. Thank you. 16 MR. SKVARLA: Good morning Chair and members. 17 Mikhael Skvarla with the Gualco Group here on behalf of 18 the Carrier Corp the parent company to United 19 Technologies. 20 Kind of Kevin and Helen both kind of made the 21 point. As we go further down the path into the next phase 22 of rules, we do have to remember that the fire standards 23 and the Building Codes need to be considered in this 24 process, which may delay kind of a more aggressive 25 timeline.

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In doing so, Carrier has spent hours with staff, 1 and we really appreciate that time, and think that we 2 3 should probably consider some additional stuff around R3, 4 reuse, recovery, recycle. We have really low rates and we 5 could get a lot of benefit from doing that, and that would б help extend the development timeline of the kind of home 7 air-conditioner, and things like that, that may have explosive charges, highly flammable propane. You know, 8 9 it's fairly charged, or even the CO2 stuff which has much higher pressures than existing systems. We're talking, 10 you know, thousands of PSI, which would require us to 11 12 train the industry installers and others to these new 13 safety standards. 14 We need the time. We're working very diligently

14 we need the time. We're working very diligently 15 on moving forward. We've provided staff information or 16 hopefully our lawyers will allow us to provide more over 17 time. We support you guys moving forward and hope we can 18 be a part of this process into the next few years.

Thanks.

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CHAIR NICHOLS: Thank you.

Mr. Skvarla was our last witness on this item.

It's a very interesting topic and one that leads to a lot of other interesting questions. But at the moment, we've got a pretty narrow proposal in front of us, which is just designed to keep some existing protections

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from going away. It's a foot in the door in a sense for ARB to be entering into this area, but I think it's one 3 that, given our interest in the short-lived climate 4 pollutants is something we're going to have to be becoming 5 much more interested and expert in.

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So I would ask for a -- oh, Dr. Balmes.

BOARD MEMBER BALMES: I don't need to make this any longer than it needs to be, but I just want to know, was there anything staff wanted to respond to in terms of the testimony?

11 DEPUTY EXECUTIVE OFFICER KARPEROS: Thank you, Dr. Balmes. As Chair Nichols said, this -- the proposal 12 13 in front of you is relatively narrowly tailored to 14 backstop the hole that's been created in the SNAP Program. 15 What we really want to do is turn our attention to the 16 sorts of items that you heard in the testimony. There are 17 lots.

18 If you recall in our presentation, there was, I 19 think, 45 percent of the reductions from other measures, 20 and we need to turn our attention to those. The sorts of 21 things that the gentleman from Honeywell spoke to are 22 where we want to be looking.

23 CHAIR NICHOLS: And it is an area where 24 technology is also needed -- advances in technology 25 clearly.

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Ms. Berg.

VICE CHAIR BERG: And just following up on that, does staff feel that they do have the flexibility that a couple of our speakers spoke about both in the ability to -- with the enforcement dates, and the home appliances, the refrigerators, for example, in looking at being able to coordinate on the various levels internationally and so forth?

9 RESEARCH DIVISION CHIEF CROES: This is Bart 10 Croes. So the -- some of the flexibility was regards to 11 sectors we don't yet regulate. So we will certainly 12 factor those issues about codes and standards into our 13 future rulemakings.

In other cases, some of the stakeholders have asked for flexibility in record keeping. So we'll consider that as part of the 15-day changes.

17 VICE CHAIR BERG: Thank you very much. 18 CHAIR NICHOLS: Okay. Do we have a motion? 19 BOARD MEMBER GIOIA: I'll move the item. 20 VICE CHAIR BERG: And I'll second. 21 CHAIR NICHOLS: Okay. Thank you. 22 Any further discussion? 23 If not, all in favor, please say aye? (Unanimous aye vote.) 24 25 CHAIR NICHOLS: Any opposed?

Abstentions? 1 Great. Yes. 2 3 ATTORNEY DILLEY: Sorry. This is Shannon Dilley. 4 I'd just like to make sure the record gets closed. 5 CHAIR NICHOLS: Ah. I did not formally close the б record. You're right. Getting sloppy here. 7 (Laughter.) 8 CHAIR NICHOLS: Thank you very much. 9 We should indicate that we did close the record 10 actually before we took the vote. And so it will stay 11 closed. Thank you. Thanks for the reminder. 12 13 We have two people who have signed up for public 14 comment. We have Harvey Eder and we have Mary Humboldt. 15 So let's hear from Mr. Eder first so he can complete his 16 unbroken record of having spoken on every item and in both 17 public comment periods in over two days. 18 MR. EDER: Correction. It's one and a half day, and I was cut for the 2 -- second and third items 19 20 yesterday. It's -- I'm Harvey Eder. I'm speaking for myself 21 and for the Public Solar Power Coalition. 22 23 It's -- I want to tell you a little bit more 24 about my history like with solar. I first saw solar in 25 '68 in Israel on the roofs of the apartment house where my

1 survivor relatives lived -- live. And I was the first registered environmental study student in the UC system in 3 the fall of 1970, and worked on getting a living Christmas 4 Tree in the White House to give to Nixon. And met the first administrator of the Environmental Protection Agency 5 who accepted the tree on behalf of Nixon, William б 7 Ruckelshaus. And he asked me if I was with Environmental 8 -- with the Environmental Action Foundation. I told him In '74, I worked with him with their utility project no. with a Rick Morgan, who was head of the Solar Renewable 11 Committee with the regulatory associations around the 12 opportunity.

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13 Anyway, took -- in '74 installed what I think is 14 the first solar system in UC on campus at Santa Cruz at 15 the organic farm, 40 acres, and plumbed that system in 16 March. And in '76 taught the solar section of -- at UC, 17 and was the solar education specialist '77 and '78 for 18 Santa Cruz county. And I met Sylvia Segal that wanted to 19 take PG&E's energy conservation programs and move it into 20 our county, which like started public solar power.

21 We started the Santa Cruz Alternate Energy Co-op 22 in '74, which is spoof on the AEC. And it was basically 23 educational. Did teach at the community college there.

24 And anyway, worked with a TURN and out of their 25 offices, and was their expert witness on solar. And also

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worked at the PUC, especially on low-income solar financing models, and litigated, STURN did. They were -had the investor-owned utilities finance, which was getting into extending what they did to -- and getting into financial institutions areas.

And there's antitrust inequity issues, and went to the Supreme Court, and had some success with -- as I mentioned yesterday.

9 Anyway, I have worked since '11 like in L.A. 10 county to try to get a CCA. And a couple days ago was at 11 their board meeting, and they not only have a CCA in L.A. 12 County, but they have Ventura County is part of it, and 13 there's like 40 entities now. A month go there was 30, a 14 month before that there was 24. And I know -- I guess I'm 15 out of time, but -- all right.

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CHAIR NICHOLS: Thank you.

MR. EDER: You folks ought to be involved in that as well as the districts and try to get the Governor to come around what he's doing with the PUC and trying to harm CCAs is not good, and that's going on right now.

CHAIR NICHOLS: Okay. Mary Humboldt.

MS. HUMBOLDT: Good morning. I'd like to thankthat gentleman for all of his wonderful work.

24I'm here. I'm a resident -- a 40 year resident25of the Inland Empire. I came to California in 1962 from

Minnesota to go to Pomona college. And one of the first things I did was get on my bike and ride down to the City of Pomona. I'd never heard the word "smog" before. Going downhill was okay. Coming back, it was just miserable, because it was 4:00 o'clock in the afternoon. And I don't think most of you are old enough to know what smog was like in the sixties, but it was just awful out here.

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8 Over the last 50 years, smog has greatly 9 improved. But here in the Inland Empire, we are still 10 besieged by particulate matter. We have a higher heart 11 attack rate, higher asthma, and higher cancer. This is a 12 great tragedy. Over the last five years, there is a 13 notable increase in the smog in the chemical taste you get 14 in your mouths. This had all but disappeared over the 15 last 10, 20 years. It had gotten better every year. And 16 some must be because of the car improvements and also your 17 qood works.

But nevertheless, it's back. I lived in London in the early seventies when smog was becoming a horrific problem over there. I had a member of parliament in my neighborhood say, "Poor people do not deserve clean air". That has stuck with me all these years. "Poor people do not deserve clean air".

The City of Riverside has 330,000 people. The average wage of a family of four of non-public employees

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is \$40,000 a year. I believe that less fortunate people deserve cleaner air and cleaner water than the well-to-do. 3 They can -- the wealthy can afford good medical care, the poor cannot. When you vote on issues that affect the 4 5 Inland Empire, remember the mantra, "Poor people deserve clean air".

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7 Please, our beautiful farmland is being converted 8 into jungles of warehouses with polluting trucks 9 everywhere. It's an atrocity. And I don't know how anyone in good conscience, but our public officials seem 10 11 to be able to vote again and again for these warehouses.

12 Please do not write us off, and thank you very 13 much for your good work.

CHAIR NICHOLS: Thank you for coming.

15 This Board does have a long history with 16 Riverside. And it's good to be back here again, and to 17 know that we're going to be spending more time as a result 18 of our laboratory that we're building adjacent to the UC 19 campus here in the Inland Empire.

20 But you're right, that there's a history of 21 Riverside having been impacted by smog that was blown in 22 from other places, and a strong effort to fight back on 23 behalf of the people who lived out here. It's a --24 there's a lot of interesting history there. And some of 25 it is being published, in fact, right now, because it is

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the 50th anniversary for the California Air Resources Board. So I think you'll find some of that reminds you of some things in your own history and you may learn some as well.

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If there's no other business to come before the Board, I think we could be adjourned. So let's do that.

7 We will -- let's just before we -- before we break up, let's just take another moment to reflect on the 8 9 important work and life of a woman who passed away. This 10 was the Chief of Staff for Governor Brown, even though 11 that wasn't her title. Executive Secretary was what she 12 was called, but she functioned in all respects as the 13 person who made things work in California State 14 government, and who just dedicated her whole life to 15 trying to work in the political sphere in a way that would 16 be impactful for people's lives, and a great human being 17 as well.

So we'll say just a moment -- take a moment and then adjourn in memory of Nancy McFadden.

> (Moment of silence for Nancy McFadden.) CHAIR NICHOLS: Thank you. (Thereupon the Air Resources Board meeting adjourned at 10:29 a.m.)

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3	Reporter of the State of California, do hereby certify:
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7	Shorthand Reporter of the State of California, and was
8	thereafter transcribed, under my direction, by
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10	I further certify that I am not of counsel or
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13	IN WITNESS WHEREOF, I have hereunto set my hand
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