

BOARD MEETING DATE: February 7, 2014

AGENDA NO. 23

REPORT: Mobile Source Committee

SYNOPSIS: The Mobile Source Committee met Friday, January 24, 2014  
Following is a summary of that meeting.

RECOMMENDED ACTION:  
Receive and file.

Dr. Clark E. Parker, Sr., Chair  
Mobile Source Committee

EC:fmt

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### **Attendance**

Dr. Parker, (*via videoconference*), called the meeting to order at 9:05 a.m. Dr. Joseph Lyou and Mayor Judith Mitchell were present at SCAQMD headquarters and Councilman Ben Benoit via videoconference. Supervisor Shawn Nelson was absent.

The following items were presented:

### **INFORMATIONAL ITEMS:**

#### **1) 2013 Ozone Season and Ongoing Air Quality Trends**

Mr. Joe Cassmassi, Planning & Rules Manager, provided the committee with a preliminary summary of the Basin ozone and particulate air quality observed in 2013. Briefly, both 1-hour and 8-hour ozone air quality improved with fewer days exceeding the standards. Basin annual average PM2.5 design value (average of 2011 to 2013 annual average values) met the 1997 federal standard of 15  $\mu\text{g}/\text{m}^3$  and pending validation, staff will submit the data to U.S. EPA to seek a finding of attainment. In 2013, PM2.5 24-hour concentrations were slightly higher than in 2012 however the design value moved closer to the standard. Only Mira Loma continues to exceed the federal standard.

Dr. Parker asked to clarify the trend of observed ozone during the mid 2000's which showed a downturn in observed ozone frequency of days exceeding the

standard. Mr. Cassmassi replied that following Phase III gasoline reformulation in 2003, there was an up-turn in ozone concentrations. This was in response to VOC leakage from permeation due to the ethanol additive. Subsequent modifications to vehicle fuel systems appeared to have minimized the impact and the ensuing lower ozone production was most likely reflected the return to ongoing trend. Dr. Lyou also asked if the current air quality modeling analyses were better replicating the observed air quality trends. Mr. Cassmassi responded that the performance of the modeling analyses has improved due to better inventories and model applications. He added that the simulations replicated the ongoing patterns well but also able to project future potential shifts in the air quality patterns due to implementation of different control strategies.

**2) Report on Proposed White Papers in Preparation for the 2016 AQMP**

Dr. Elaine Chang, Deputy Executive Officer, reported to the Committee that a series of white papers leading to the preparation of the 2016 AQMP are being contemplated by staff. The purpose of the white papers is to lay out technical and policy issues associated with various emission sectors and to initiate dialogues with stakeholders regarding SIP strategy development. The nine topics/papers that are being proposed are: *“Preface to White Papers”, 21<sup>st</sup> Century Goods Movement System and Air Quality, Passenger Transportation, Energy Outlook, Residential and Commercial Energy Use, Industrial Facility Modernization, VOC Controls, PM Controls, and A Business Case for Clean Air.* Dr. Chang briefly reviewed the issues each individual report intends to address. These issues were based on past comments from the stakeholders that are important in the development of the SIP measures. Staff will collaborate closely with CARB, SCAG, the County Transportation Commissions and the Council of Governments in preparing the reports. Periodic updates will be made to this Committee and the AQMP Advisory Group. Staff intends to prepare and release the reports in the 2014-2015 timeframe. Both Mayor Mitchell and Dr. Lyou commented on early stakeholder engagements, especially outreach to the environmental justice communities that may be affected by goods movement-related projects. Dr. Lyou also suggested a topic on land use and indirect source, as another critical element in the overall AQMP control strategy. Dr. Parker also emphasized the need to inform the public regarding the health effects of air pollution and how standards are set to protect public health, so that the public can understand what we need to do and why we are taking certain actions. Councilmember Benoit highlighted the Home Energy Renovation Opportunity (HERO) program in Riverside County that provides innovative financing to promote solar energy and energy efficiency programs for home owners. He believes that the AQMP is a good venue to promote this kind of program that produces energy savings to consumers as well as air quality and GHG emission reductions.

Mr. Lee Wallace, Southern California Gas Company/San Diego Gas & Electric, commented on the importance of agency coordination and the timing for such coordination due to various agency deadlines. Mr. Wallace noted that at a meeting last December, the California Department of Transportation (Caltrans), indicated that they were relying entirely on CARB to provide the environmental input for the California Freight Mobility Plan, and that input is needed by June 2014, yet the CARB Sustainable Freight Strategy draft report is scheduled for the end of 2014.

**3) Near-Roadway Exposure Mitigation Studies Workshop**

Dr. Philip Fine, Assistant Deputy Executive Officer/Science & Technology Advancement, provided a summary of the “Near-roadway Mitigation Measures and Technology Forum” that was organized and hosted by the SCAQMD on November 21, 2013. Dr. Fine noted that the main goal of this forum was to share the latest information on air pollution, health impacts, and mitigation measures and technologies in the near-road environment. To this end the SCAQMD invited a number of experts from various governmental, academic, and private institutions to stimulate an open discussion on the effectiveness of road-side structures (e.g. noise and vegetative barriers), building features (e.g. air filtration) and other available measures to mitigate near-road exposure.

Dr. Fine then summarized the results of SCAQMD-funded studies. In particular, Dr. Akula Venkatram (UCR) explained that although computer models can help predicting the effect of barriers on near-road pollution, the available modeling tools are still inaccurate and need to be refined. Dr. Marko Princevac (UCR) presented flow-modeling data suggesting that road barriers can reduce near-road pollution but, depending on roadway and barrier characteristics and meteorological conditions, they can also increase traffic exposure for commuters and nearby residents. Dr. Princevac showed how the installation of roadway fans may help increase vertical dispersion of mobile emissions, hence reducing the impact of near-road pollution and exposure; although probably expensive, this was found to be a potentially effective solution. Dr. Cathy Fitzgerald (The Planning Center) conducted a literature review of available mitigation technologies and concluded that bio-filtration systems may be an effective (but probably expensive) solution to reduce near-road pollution and should be further investigated. Frank DiGenova (Sierra Research, Inc.) used a combination of field measurements and dispersion modeling (AERMOD) to study the impact of sound walls and vegetative barriers on near-road pollution near Lake Balboa, and found that the highest air toxic concentrations were immediately behind the barriers. He also noted that taller barriers may result in greater dilution and, hence, lower downwind concentrations. Dr. Fine also briefly summarized other topics that were presented during the forum.

The forum also included a panel session where representatives of various governmental institutions discussed planning and policy issues related to near-road pollution. This last part of the forum, moderated by Dr. Fine, addressed several questions from the audience and from people participating via webcast. In summary, the panelists agreed that it is important to educate people living in low-income communities and in environmental justice areas on the risks associated with traffic emission exposure. They also recognized the importance of policy and regulation measures that promote zero- or near-zero emission technology, and that more research is needed to identify the specific components of traffic emission that may be responsible for this increase. The panelists strongly agreed that while the technologies and measures discussed during this forum are effective in minimizing exposure, the preferred strategy remains a reduction in tailpipe emissions.

Dr. Lyou commented that he has a cabin filter in his car and asked whether those work on ultrafine particles. Dr. Fine responded that it depends on the filter, and some filters provided by the car manufacturers or aftermarket are high-efficiency that can remove ultrafines. Dr. Lyou also asked whether we can come up with a list of potentially feasible mitigation measures that could be adopted under CEQA, from this information. Dr. Fine replied that the results thus far are far from conclusive, and we do not want to make recommendations that can make the problem worse. Dr. Lyou asked whether we might be able to specify something that at least lays out what we know to be true at this point and whether it is feasible to adopt as a mitigation measure. Dr. Fine replied that a summary document could be compiled that presents all the information that is known about this issue. Dr. Parker commented that the findings regarding gaps in wall barriers confirm his observation that the wall may reduce pollution in the areas along the wall, but then the pollution gets channeled through the gaps.

#### **WRITTEN REPORTS:**

**4) Recommendations on Membership Roster for Air Quality Management Plan (AQMP) Advisory Group and Scientific, Technical & Modeling Peer Review (STMPR) Advisory Group**

Dr. Chang stated that the recommendations for the AQMP Advisory Group and STMPR Advisory Group for the development of the 2016 AQMP will be submitted to the full Board for approval as attachments to these meeting minutes, in accordance with the Blue Ribbon Panel recommendations. She noted that staff is requesting a 3-year membership term for the 2016 AQMP and STMPR Advisory Groups instead of the typical 2-year term. This is to be in line with the 2016 AQMP development process and to avoid membership renewal in the midst of the AQMP development process. Dr. Lyou informed staff that Candice Kim, the alternate for the Coalition for Clean Air, is no longer with the Coalition for

Clean Air. He stated that a replacement for Ms. Kim would be submitted at a later date. Mayor Mitchell asked whether staff had considered having a representative from the California State University at Long Beach serve on the Advisory Group, since that academic entity is doing a lot of work on goods movement. Mr. Henry Hogo, Assistant Deputy Executive Officer, stated that sometime consultants with expertise would be retained by the District, and serving on the Advisory Group may create a conflict. Nevertheless, staff would look into this. Dr. Chang also noted that the Board Chair can make subsequent appointments to the Advisory Group, once the full Board approves the initial roster. There being no further comments, the report was received as submitted.

**5) Rule 2202 Activity Report**

The report was received as submitted.

**6) Monthly Report on Environmental Justice Initiatives – CEQA Document Commenting Update**

The report was received as submitted.

**OTHER BUSINESS:**

None

**PUBLIC COMMENT:**

None

The meeting was adjourned at 10:29 a.m.

**Attachments**

Attendance Roster

Proposed AQMP Advisory Group Roster for 2016 AQMP

Proposed STMPR Advisory Group Roster for 2016 AQMP

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
MOBILE SOURCE COMMITTEE MEETING  
Attendance Roster- January 24, 2014**

NAME	AFFILIATION
Chair Dr. Clark E. Parker, Sr.	SCAQMD Governing Board ( <i>via videoconference</i> )
Vice Chair Dr. Joseph Lyou	SCAQMD Governing Board
Committee Member Ben Benoit	SCAQMD Governing Board ( <i>via videoconference</i> )
Committee Member Judith Mitchell	SCAQMD Governing Board
Board Asst/Consultant Mark Abramowitz	SCAQMD Governing Board (Lyou)
Board Asst/Consultant Frank Cardenas	SCAQMD Governing Board (Cacciotti)
David Rothbart	Los Angeles County Sanitation Districts
Tara Tisopulos	Environmental Compliance Solutions on behalf of Orange County Transportation Authority
Leila Barker	Los Angeles Department of Water & Power
Jonathan Nadler	Southern California Association of Governments
Lee Wallace	Southern California Gas/San Diego Gas & Electric
Steve Schuyler	Building Industry Association of Southern Calif.
Harvey Eder	Public Solar Power Coalition
Peter Whittingham	Curt Pringle & Associates
Elaine Chang	SCAQMD Staff
Laki Tisopulos	SCAQMD Staff
Barbara Baird	SCAQMD Staff
Matt Miyasato	SCAQMD Staff
Henry Hogo	SCAQMD Staff
Philip Fine	SCAQMD Staff
Joe Cassmassi	SCAQMD Staff
Jean Ospital	SCAQMD Staff
Dean Saito	SCAQMD Staff
Carol Gomez	SCAQMD Staff
Andrea Polidori	SCAQMD Staff
Sam Atwood	SCAQMD Staff
Kim White	SCAQMD Staff

Proposed AQMP Advisory Group Roster for 2016 AQMP  
February 2014 to February 2017

Organization	Group Type	Member	Alternate
California Energy Commission	Gov Agency	Robert Oglesby	
CARB	Partner Agency	Lynn Terry	Terry Roberts
Gateway Cities Council of Governments	Gov Agency	Richard Powers	
Los Angeles County Dept. of Public Health	Gov Agency	Angelo Bellomo	
Los Angeles County MTA	Gov Agency	Stacy Alameida	Lori Abrishami
Los Angeles Department of Water and Power	Gov Agency	Leila Barker	
Los Angeles World Airports	Gov Agency	Robert Freeman	
Orange County Council of Governments	Gov Agency	Gwenn Norton-Perry	
Orange County Transportation Authority	Gov Agency	Kurt Brotcke	Tara Tisopulos
Port of Long Beach Administration	Gov Agency	Heather Tomley	Allyson Teramoto; Renee Moilanen
Port of Los Angeles	Gov Agency	Lisa Wunder	Tim DeMoss
San Bernardino Associated Governments	Gov Agency	Steve Smith	
County of San Bernardino ( <i>Economic Development</i> )	Gov Agency	Kelly Reenders	
San Gabriel Valley Council of Governments	Gov Agency	Andrea Miller	
South Bay Cities Council of Governments	Gov Agency	Jacki Bacharach	Kim Fuentes

Proposed AQMP Advisory Group Roster for 2016 AQMP  
February 2014 to February 2017

Organization	Group Type	Member	Alternate
<b>Southern CA Alliance of Publicly-Owned (SCAP) Treatment Works</b>	Gov Agency	David Rothbart	
<b>Southern CA Association of Governments</b>	Partner Agency	Huasha Liu	Jonathan Nadler
<b>U.S. EPA Region 9</b>	Partner Agency	Elizabeth Adams	Wienke Tax
<b>Western Riverside Council of Governments</b>	Gov Agency	Rick Bishop	Barbara Spoonhour
<b>American Lung Association</b>	Environmental/ Community	Terry Roberts	
<b>California Clean Air Freight Coalition</b>	Environmental/ Community	Joel Ervice	
<b>Center for Community Action &amp; Environmental Justice</b>	Environmental/ Community	Penny Newman	
<b>Coalition for Clean Air</b>	Environmental/ Community	Patty Ochoa	Candice Kim
<b>Communities for a Better Environment</b>	Environmental/ Community	Maya Golden-Krasner	
<b>Earthjustice</b>	Environmental/ Community	Adrian Martinez	
<b>Law Office of Gideon Kracov (<i>East Yard Communities for Environmental Justice</i>)</b>	Environmental/ Community	Gideon Kracov	
<b>NRDC</b>	Environmental/ Community	David Pettit	Melissa C. Lin Perrella
<b>Sierra Club</b>	Environmental/ Community	Jim Stewart	
<b>Association of American Railroads</b>	Business	Peter Okurowski	Darcy Wheelles
<b>BizFed</b>	Business	Tracy Rafter	David Englin



Proposed AQMP Advisory Group Roster for 2016 AQMP  
February 2014 to February 2017

Organization	Group Type	Member	Alternate
<b>Building Industry Association</b>	Business	Steven Schuyler	Victor Cao
<b>California Council for Env. &amp; Econ. Balance</b>	Business	Bill Quinn	
<b>California Refuse Recycling Council</b>	Business	Paul Ryan	
<b>California Small Business Alliance</b>	Business	William La Marr	
<b>California Trucking Association</b>	Business	Chris Shimoda	
<b>CleanEnergy</b>	Business	Spencer Richley	Todd Campbell
<b>Construction Industry Air Quality Coalition</b>	Business	Clayton Miller	
<b>Future Ports</b>	Business	Frances Keeler	
<b>Inland Action Inc</b>	Business	Carole Beswick	
<b>LA Area Chamber of Commerce</b>	Business	Thomas McHenry	
<b>Latham &amp; Watkins</b>	Business	Bob Wyman	John Heintz
<b>NAIOP, Commercial Real Estate Development Association, SoCal Chapter</b>	Business	Peter Herzog	
<b>Orange County Business Council</b>	Business	Lucetta (Lucy) Dunn	Matt Petteruto
<b>Pacific Merchant Shipping Association</b>	Business	T.L. Garrett	
<b>Printing Industries of California</b>	Business	Gerry Bonetto	

Proposed AQMP Advisory Group Roster for 2016 AQMP  
February 2014 to February 2017

Organization	Group Type	Member	Alternate
RadTech	Business	Rita Loof	
Realtors Committee on Air Quality	Business	Carla Walecka	
SoCal Gas/SDG&E	Business	Lee Wallace	
Southern CA Air Quality Alliance	Business	Curtis Coleman	
Southern CA Edison	Business	Tom Gross	
Southern CA Leadership Council (SCLC)	Business	Richard Lambros	
Valley Industry & Commerce Association (VICA)	Business	Stuart Waldman	
Western States Petroleum Association	Business	Patty Senecal	Mike Wang
UCLA – Center for Sustainable Communities	Academia	Stephanie Pincetl	
USC-Department of Preventative Medicine	Academia	Andrea Hricko	

**Total Proposed: 55**

Gov Agency: 19

Environment/Community: 9

Business: 25

Academia: 2

2016 AQMP  
 Scientific, Technical & Modeling Peer Review Advisory Group  
 Proposed Membership Roster  
 February 2014 to February 2017

Member	Organization
Ms. Carol Bohnenkamp	U.S. Environmental Protection Agency, Region IX
Mr. John DaMassa	California Air Resources Board
Dr. Leland Deck	U.S. Environmental Protection Agency, Washington, DC
Mr. Rob Farber	Consultant
Dr. Fereidun Feizollahi	California Air Resources Board
Dr. Robert Fovell	U C L A
Dr. Gloria González-Rivera	University of California, Riverside
Dr. Jane Hall	California State University, Fullerton
Dr. Robert Kleinhenz	Los Angeles Economic Development Corporation
Mr. Stephen Levy	Center for Continuing Study of the California Economy
Mr. Fred Lurmann	Sonoma Technology Inc.
Mr. Ralph Morris	ENVIRON International Corporation
Dr. Greg Osterman	Jet Propulsion Laboratory/NAPA
Dr. Gabriele Pfister	National Center for Atmospheric Research
Dr. Fred Treyz	Regional Economic Models Inc.
Dr. Frank Wen	Southern California Association of Governments