



Assembly Bill (AB) 617 Community Air Initiatives

Technical Advisory Group (TAG) Meeting #2

Wednesday, May 29, 2019
10:00 A.M. – 12:00 P.M.

South Coast Air Quality Management District
Conference Room GB
21865 Copley Dr, Diamond Bar, CA 91765

Webcast is available at <http://www.aqmd.gov/home/library/webcasts>
Questions and Comments can be emailed to AB617_TAG@aqmd.gov

Item	Presenter
1. Welcome and Introduction	Jo Kay Ghosh, Ph.D. Director of Community Air Programs
*2. Emissions Inventory in the Base and Future Milestone Years – Point and OnRoad Mobile sources	Sang-Mi Lee, Ph.D. Program Supervisor Marc Carreras Sospedra, Ph.D. Air Quality Specialist
*3. Community Emission Inventory Development: CARB Off-Road Mobile and Area Sources	Steve Zelinka California Air Resources Board
*4. Community Air Monitoring Plan Update and Discussion	Andrea Polidori, Ph.D. Atmospheric Measurements Manager, Payam Pakbin, Ph.D. Program Supervisor
5. Discussion and Comments	Advisory Group Members
6. Public Comments	Members of the Public
7. Air monitoring Platform and equipment tour. Members are invited to this optional tour	Andrea Polidori/Payam Pakbin

* These items can go in any order.



Assembly Bill (AB) 617 Community Air Initiatives

Technical Advisory Group (TAG) Meeting #1 Attendance

Wednesday, May 29, 2019
10:00 A.M. – 12:00 P.M.

South Coast Air Quality Management District
Conference Room GB
21865 Copley Dr, Diamond Bar, CA 91765

Representative (Primary ¹ ; Alternate ²)	Affiliation	Community	Participant in the TAG Meeting
Jesse Marquez ¹ ; Flavio Mercado ²	Coalition for a Safe Environment; Active Resident from Wilmington	Wilmington, Carson and West Long Beach	Jesse Marquez
Jill Johnston	University of Southern California	Wilmington, Carson and West Long Beach	Jill Johnston
Uduak-Joe Ntuk ¹ ; Tim DeMoss ²	City of Los Angeles; Port of Los Angeles	Wilmington, Carson and West Long Beach	Uduak-Joe Ntuk
Ryan Sinclair	Loma Linda University	San Bernardino, Muscoy	Ryan Sinclair
Andreas Beyersdorf	California State University, San Bernardino	San Bernardino, Muscoy	Andreas Beyersdorf
Tammy Yamasaki	Southern California Edison	San Bernardino, Muscoy	Tammy Yamasaki
Hector Garcia	Our Lady of Victory	East LA, Boyle Heights, East Commerce	
Marisa Blackshire	BNSF	East LA, Boyle Heights, East Commerce	Marisa Blackshire
Rafael Yanez	Active Resident	East LA, Boyle Heights, East Commerce	Rafael Yanez
Manuel Pastor	Univ. Southern California, Sociology and American Studies & Ethnicity	Technical Expert	
Scott Fruin	Univ. Southern California, Preventive Medicine	Technical Expert	
Cesunica (Sunny) Ivey	UC Riverside	Technical Expert	Cesunica (Sunny) Ivey
Luis Portillo	Inland Empire Partnership	Technical Expert	
Ken Davidson	US EPA Region 9 Air Division, Acting Manager, Air Toxics, Radiation, and Indoor Air Office	Technical Expert	
Janet Whittick	California Council for Environmental and Economic Balance (CCEEB)	Technical Expert	Janet Whittick
Melissa Lunden	Aclima	Technical Expert	Melissa Lunden

Technical Advisory Meeting (TAG) Meeting #2 Summary: During the TAG Meeting #2 emissions inventory, chemical transport modeling, community air monitoring, and an overview of laboratory capabilities were summarized.

1. Welcome and Introduction – Jo Kay Ghosh, Ph.D., Health Effects Officer/Director of Community Air Programs

Jo Kay welcomed the TAG members and each member introduced themselves. Jo Kay asked the TAG members to identify their preference for the ordering and format of the meeting based on the two meeting topics: emissions inventory and air monitoring. The TAG members agreed to proceed in the order indicated on the agenda.

2. Presentation by South Coast AQMD staff on emissions inventory development – Sang-Mi Lee, Ph.D., Program Supervisor presented on the following topics:

- Base Year and Future Milestone years
- Emission trends and projection of future year emissions (e.g., baseline emission levels), economic data, growth forecast (e.g. population, housing, employment and vehicle miles traveled (VMT)) , emission control factors
- Emissions from point sources, both basin-wide and by community
- Emission projections of future mobile source emissions, both basin-wide and by community
- Toxic emissions profiles, considerations include risk factors for air toxics to identify weighted emission levels

Q and A on presentation

- a. Uduak-Joe Ntuk asked if emissions monitoring data confirm the trends of NO_x emissions levels
 - i. Sang-Mi Lee replied that the trends of decreasing emissions are consistent with other data such as satellite and surface ambient monitoring data
- b. Janet Whittick inquired the source of the growth factors for industrial activity
 - i. Sang-Mi Lee replied that the factors are based on growth factors for industrial sources from the Southern California Association of Governments (SCAG)
- c. Cesunica Ivey inquired about the dip in emissions in 2024 and whether that was due to a specific regulation
 - i. Sang-Mi Lee replied affirmatively, that are four major regulations that are responsible for that trend
- d. Rafael Yanez expressed that it would be beneficial that a diesel truck smog regulation would be incorporated and enforced by CARB, especially given the trends in goods movement. He added that East LA, Boyle Heights, West Commerce is greatly impacted by mobile sources and permits don't always reflect changes in facility processes, such as, source tests, etc. that identify current year/latest emissions data. Rafael Yanez asked to ensure that current growth trends are captured because the data that used in the inventory is from 2012. He added that Toxic Hot Spots program appears to be random and does not appear to be rational to the program and required a re-evaluation of how facilities are reporting for that program.

- i. Sang-Mi Lee acknowledged that regulations that are adopted by the source-specific cut-off deadline are reflected. Also, she noted that only facilities that emit four tons per year or higher are required to report emissions under AER.
 - ii. Jo Kay Ghosh pointed out that there has not been any change in reporting requirements, but how the health risk is calculated has changed due to updates in statewide guidance.
 - e. Jill Johnston requested the data to be provided in pounds of emissions in each area
 - i. Sang-Mi Lee replied that emissions would be provided in tons per year for CAPs and pounds per year for TACs.
 - f. Julia May requested graphs for PM to be provided similar to the ones presented in this meeting
 - i. Sang-Mi Lee mentioned that PM emissions would be one of the topics to be discussed at next TAG meeting

3. CARB Development of Community Emissions Inventory: Steven Zelinka (CARB) presented the methodology to develop emissions from area and off-road sources. The topics covered in the presentation were the following:

- Overview of Inventory approach
- Relative scale of emissions
- Forecasting emissions inventory, forecast models, etc.
- Mobile sources (on-road and off-road)

Q and A on presentation

- a. Janet Whittick inquired when the inventories be ready.
 - i. Sang-Mi Lee replied that Year 1 community inventories would be finalized before the next TAG meeting
- b. Cesunica Ivey inquired where the emissions from airports are included in the inventory.
 - i. Steven Zelinka replied that airports are included in off-road emissions.
 - ii. Sang-Mi Lee pointed out that there are no airports in any of the first year communities
- c. Cesunica Ivey asked if consumer products are included in indoor or outdoor emissions
 - i. CARB staff replied that the emissions inventory developed for the communities does not distinguish emissions occurring inside or outside a building.
- d. Uduak-Joe Ntuk asked how are emissions from ports were expected to be reduced in the future.
 - i. CARB staff replied that emission reductions will be a result of a combination of technology changes and rules
- e. Rafael Yanez asked about the source of indoor cooking emissions and the need to better understand these sources
 - i. CARB staff noted that emissions inventory efforts are always pursuing additional information where available
- f. Rafael Yanez inquired about the requirements for red dye among diesel
 - i. CARB staff replied that OGV and Off-road sources are required to comply with low sulfur diesel
- g. Rafael Yanez asked if discussions have been had to tighten up regulations on sulfur content in diesel for OGV with other nations. Also, he asked if trends on OGV emissions shown in the

presentation were based on best-case scenario or whether those trends included 'true data', and stressed the importance to use the PEAQS system to collect real true data on emissions.

- i. CARB staff noted that IMO regulations starting in 2020 will bring the sulfur content in OGV diesel to the same levels required in US waters. Also, CARB staff mentioned that trends in OGV emissions presented in the slides include regulations, and agreed that PEAQS will help collect emissions data.

4. Community Monitoring Plan Update: Payam Pakbin provided an update on the Community Air Monitoring Plan progress.

- a. Jill Johnston inquired about what compounds are measured with flight-based air toxic measurements
 - i. Payam provided a description of the efforts and explained that the measurements are focused on gaseous emissions and cover over 100 different VOC compounds
- b. Rafael Yanez emphasized the need to focus on mobile source emissions in the ELABHWC community, and suggested that the PEAQS system would be instrumental, and expressed hope that the PEAQS system could be implemented in the next 6 months
 - i. Payam Pakbin replied that CARB is still performing tests and evaluating PEAQS system. In the meantime, South Coast AQMD monitoring will complement systems like the ALPR system, which is one of the components of the PEAQS system
 - ii. Andrea Polidori added that South Coast AQMD's proposal in the CAMP includes technologies and monitoring systems that can be implemented in the near future
- c. Jill Johnston inquired about the timeframe for air monitoring information to be available
 - i. Payam Pakbin replied that mobile monitoring results would be available in approximately one month after the data collection, however depending on the purpose of monitoring, multiple surveys may be needed to be taken on different days of the week, different times of the day, and sometimes different seasons to capture temporal variations in ambient concentrations
- d. Ryan Sinclair advocated for more community involvement with low cost sensors, for example, low cost sensors that have been evaluated by the AQ-SPEC program
 - i. Payam Pakbin replied that low cost sensor network information is not extensive in the CAMP, but mobile information will help identify hotspot where the low cost sensors could be deployed
 - ii. Jason Low added that South Coast AQMD is working to develop a sensor library program that will include providing support for community low cost sensor networks
- e. Ryan Sinclair asked whether data validation is all managed by South Coast AQMD or other vendors.
 - i. Andrea Polidori described how the data validation is a long term plan and all the details will be released in the Quality Assurance Project Plan (QAPP) document
- f. Julia May requested that measurements around refineries should include all compounds possible

5. Concluding remarks:

- a. Jo Kay Ghosh reminded the working group about the tight timeline and that receiving comments in advance would be helpful

6. Public Comment

- a. Harvey Eder requested that the technical committee should address BARCT and that the plan should use more recent emissions data, and BARCT regulations and data should be included in the draft plan
 - i. Jo Kay Ghosh replied that the discussion in today's meeting focused on the technical portions of inventory that is needed for the development of the community plans. However, other working group meetings will be held for BARCT implementation. She clarified that the upcoming meeting in Colton was not a steering committee meeting, but rather an outreach meeting to discuss community selection for future years of this program.
- b. A member of the public inquired about the technologies that are valid for court rulings
 - i. Jason Low clarified that official reference and guidance technologies and methods for source testing are the ones appropriate for such cases