Community Air Initiatives

Wilmington, Carson, West Long Beach
Community Steering Committee Meeting #4

Thursday, March 14th, 2019
Wilmington, CA
Making Progress

Community Reported Air Quality Concerns

Air Quality Concern Prioritization

March

Strategies and Proposed Actions for Reported Air Quality Concerns (Part I)

Submit Air Monitoring Plan to the California Air Resources Board (CARB)

Draft Community Emissions Reductions Plan

Draft Air Monitoring Plan

November

January

February

April

May
Current Efforts:

Indirect Source Rules (ISR) or Facility Based Mobile Source Measures
Facility Based Measures

Facility Based Mobile Source Measures included in the **2016 Air Quality Management Plan** to reduce regional smog (ozone and fine PM).

SCAQMD Board directed staff to develop approaches for five facility sectors:

- **Warehouses** – Pursue Indirect Source Regulation (ISR)
- **Rail Yards** – Pursue ISR
- **Ports** – Develop MOU with ports to implement Clean Air Action Plan (CAAP)
- **Airports** – Develop MOU with airports to create and implement Air Quality Improvement Plans
- **New/Redevelopment Projects** – Further study on potential ISR or other approaches
Indirect Source Rules (ISR)

Important considerations for ISR

- **Air quality impact regionally and locally**
- **Limits on legal authority** (air district-state-federal, court decisions, preemption, etc.)
- **Implementation**
  - Complicated relationships between facility owners, operators, cargo owners, truckers, etc.
  - Rule must be feasible for industry, and enforceable by air district
- **Cost of regulation**
  - Cleaner vehicles (purchase price, fuels, infrastructure, incentives, etc.)
  - Health impact on community from emissions

An “Indirect Source” is a facility that “attracts mobile sources”
Memorandum of Understanding (MOU)

Agreement between SCAQMD and the Ports of Los Angeles and Long Beach to achieve emission reductions

- MOU reductions form the basis for SCAQMD making emission reduction commitments to EPA
- Based on emission reduction benefits associated with implementation of ports 2017 Clean Air Action Plan (CAAP) measures with initial focus on:
  - Clean Trucks Program
  - Cargo Handling Equipment Procurement Planning
  - Potential new incentive programs for ocean-going vessels
Process

- Individual working groups and public process under way since 2017 for each facility sector
  - More info available at: [www.aqmd.gov/fbmsm](http://www.aqmd.gov/fbmsm), e-mail listserv available at: [www.aqmd.gov/sign-up](http://www.aqmd.gov/sign-up)

- Currently anticipated Public Hearings for SCAQMD Board to consider measure adoption:

  2019
  - November: MOUs for airports and ports
  - December: Warehouse ISR

  2020
  - Rail Yard ISR
Current Rule Development Efforts:

Best Available Retrofit Control Technology (BARCT)
Best Available Retrofit Control Technology (BARCT)

- Is defined in the California Health and Safety Code Section 40406

“…an emission limitation that is based on the maximum degree of reduction achievable, taking into account environmental, energy, and economic impacts by each class or category of source.”

- BARCT analysis is conducted for each equipment category and fuel type

- BARCT is reassessed periodically and is updated as technology advances

- AB 617 requires BARCT implementation by the end of 2023
Command-and-Control BARCT Rules
Adopted and Amended Rules

Rules 1146, 1146.1 and 1146.2
Boilers, steam generators, and heaters
*Amendments adopted Dec. 2018

Rule 1118.1
Control of Emissions from Non-Refinery Flares
*Amendments adopted January 2019

Rule 1135
Electricity Generating Facilities
*Amendments adopted Nov. 2018
Command-and-Control BARCT

Upcoming Key Rulemaking

PAR 1134
Gas Turbines
- Public Hearing: April 2019

PAR 1110.2
Gaseous- and Liquid-Fueled Engines
- Public Hearing: 3rd Quarter 2019

PR 1109.1
Refineries
- Public Hearing: Oct. 2019

PR 113
Monitoring, Reporting, and Recordkeeping (MRR)
- Public Hearing: Oct. 2019

PR: Proposed Rule
PAR: Proposed Amended Rule
Command-and-Control BARCT
Additional Rulemaking

PAR 1147
Miscellaneous Combustion Sources
- 1st Working Group February 2019
- Public Hearing: Sept. 2019

PAR 1147.1
Large Miscellaneous Combustion Sources
- 1st Working Group February 2019
- Public Hearing: Sept. 2019

PR 1147.2
Metal Melting Facilities
- 1st Working Group April 2019
- Public Hearing: Nov. 2019

PR 1147.3
Aggregate Facilities
- 1st Working Group April 2019
- Public Hearing: Dec. 2019

PR: Proposed Rule
PAR: Proposed Amended Rule
More information on BARCT rulemaking

Working group and hearing deadlines:

Initial Ideas for Actions in the Community Emissions Reduction Plan (CERP) and Community Air Monitoring Plan (CAMP)
Prioritized Air Quality Concerns in Wilmington, Carson, West Long Beach

You have prioritized these Air Quality Concerns in this community:

1. Refineries
2. Ports
3. Truck Traffic
4. Oil Drilling/Production
5. Rail
6. Schools, etc.

Highest priorities:

Additional priorities:

Today, we will focus on discussing actions to address these top 3 priorities.

Additional priorities:

To be discussed in April (CSC Meeting #5)
Community Emissions Reduction Plan and Community Air Monitoring Plan

- Goals & Objectives of Monitoring
  - Monitoring Solutions
  - Monitoring Data

- Emission Reduction Priorities
  - Emission Reduction Actions & Targets
  - Track Progress, Follow-up Actions

- Community Air Quality Priorities

- Deadline for CERP to be approved: September 2019
- Deadlines for Air Monitoring Plan
  - Submit Plan: May 2019
  - Implementation: July 2019
Flaring, Public Notifications

Monitoring:
- Monitor flare emissions using continuous monitoring (to improve public information)
- Post data onto SCAQMD website

Rules and Regulations:
- Rule 1118 amendment to reduce flaring
- Collect flare gas for beneficial use
- Expand vapor recovery systems

Public Information and Outreach:
- Improve flaring notification and information systems (for better public information)
- Update website information

These measures are either new or could have new components based on committee feedback and priorities
Initial CERP Ideas

Refinery Equipment

Rules and Regulations:

- BARCT implementation
  - Proposed Rule 1109.1 - Replace or retrofit existing equipment with best emission controls
- Potential Amendments to Rules 463, 1149, 1173, 1178 - Vapor recovery on tanks, tank degassing, replacement of primary seals

These measures are either new or could have new components based on committee feedback and priorities
Storage Tanks and Refinery Leaks

Monitoring / Enforcement:
• Mobile monitoring to identify leaks, with enforcement follow-up
• Rule 1180 fenceline and community monitoring

Public Information, Outreach, and Other:
• Implement notification systems
• Pressure release valve sensors and alarms

Rules and Regulations:
• Potential Amendments to Rules 463, 1149, 1173, 1178
  - Vapor recovery on tanks, tank degassing, replacement of primary seals

These measures are either new or could have new components based on committee feedback and priorities
Air Monitoring: Refineries
CSC Concerns and Available Monitoring Strategies

**Source characterization**
- Continuous fenceline monitoring *(Rule 1180)*
- Aerial measurements and optical tent *(MATES V)*
- Mobile monitoring *(New)*

**Community Exposure**
- Continuous community monitoring *(Rule 1180)*
- Mobile monitoring *(EPA Community Scale Grant / New)*
- Fixed site monitoring *(New)*

**Emission Estimation**
- Mobile monitoring *(EPA Community Scale Grant / New)*

**Leak Detection**
- Continuous fenceline monitoring *(Rule 1180)*
- Mobile monitoring *(New)*
- FLIR camera *(New)*
Ports (1 of 2)

Initial CERP Ideas

Ships and Harbor Craft

**Monitoring / Enforcement:**
- Monitoring to help identify oil tanker air pollution leaks
- Oil tanker inspections with infrared cameras and other technologies to detect air pollution leaks

**Incentives:**
- Retrofit and replace older harbor craft
- PRIMER program to encourage cleaner vessels at our ports
- Expand Vessel Speed Reduction program (CAAP)
- Technology demonstrations of cleaner ship engines

**Rules, Regulations, and Agreements:**
- Proposed CARB At-Berth Regulation to increase shore power use or equivalent control technology
- Enforceable MOU with Ports to reduce pollution from ships and harbor craft
- Rule 1142 amendments for tanker leaks

*These measures are either new or could have new components based on committee feedback and priorities*
Ports (2 of 2)

Initial CERP Ideas

Terminals

Rules, Regulations, and Agreements:
- Enforceable MOU with Ports to reduce pollution from cargo-handling equipment
- CARB Proposed Cargo Handling Equipment Regulation to transition to zero emission standards and efficiency improvements. This would apply to:
  - Yard trucks
  - Rubber tired gantry cranes
  - Container handlers
  - Forklifts

Incentives:
- Replace cranes, forklifts, rubber-tired gantry and trucks, with an emphasis on zero-emission technologies

These measures are either new or could have new components based on committee feedback and priorities.
Air Monitoring: Ports
CSC Concerns and Available Monitoring Strategies

Source Monitoring
- Fixed monitoring (SCAQMD and POLA/POLB Networks)
- Mobile monitoring (New)
- FLIR camera (New)

Community Exposure
- Mobile monitoring (EPA Community Scale Grant / New)
- Fixed monitoring (New)

Oil Tanker Leaks
- Advanced monitoring technology (New)
- Mobile monitoring (New)
- Fixed monitoring (New)
Neighborhood Truck Traffic

Monitoring:
- Identify impacted community areas near truck traffic corridors with the highest levels of diesel pollution

Truck Traffic Data:
- Traffic counter data, or CARB license plate readers to identify “frequent flyers” for potential incentive funding

Enforcement:
- Focused idling sweeps targeting areas near schools and other impacted community areas

Incentives / Outreach:
- Replacement of old trucks for cleaner trucks through Prop 1B, Carl Moyer, and AB 617 funds
- Targeted outreach to heavy duty diesel equipment owners for potential incentives
- Charging infrastructure

Rules, Regulations, and Agreements
- Enforceable MOU with Ports to reduce pollution from trucks
- CARB Drayage Truck Regulation Amendment

These measures are either new or could have new components based on committee feedback and priorities.
Collaboration with Other Agencies

- Data on traffic flows
- Control travel time/ stoplights for traffic
- Potential ordinances on permissible truck routes and time of day when truck traffic allowed
- Potential ordinances on truck parking zones
- Buffer zones

These measures are either new or could have new components based on committee feedback and priorities
# Air Monitoring: Neighborhood Truck Traffic

## CSC Concerns and Available Monitoring Strategies

### Source Monitoring
- **Mobile monitoring** *(MATES V / New)*
- **Fixed monitoring** *(New)*
- **BC and VOC sensors** *(New)*

### Community Exposure
- **Mobile monitoring** *(MATES V / New)*
- **Fixed monitoring** *(New)*
- **Sensor networks** *(MATES V / New)*

### Special Interests
- **CARB license plate camera system** *(New)*
- **Traffic counters** *(New)*
- **Fixed and mobile monitoring** *(New)*
Proposed Air Monitoring Approach

Mobile Monitoring
- Survey large areas
- Identify hotspots and unknown sources
- Support inspections and enforcement actions
- Inform emission reduction efforts

Fixed Monitoring
- Characterize emission sources
- Assess potential community exposure
- Support CERPs
- Track progress

Sensors
- Supplement fixed monitoring
- Engage and educate community
- Characterize spatial and temporal variations

Assess
Review
Recommend

South Coast AQMD
Proposed Air Monitoring Approach (Example)

Mobile Monitoring
Conducted periodically (e.g., monthly, quarterly, as needed)

Fixed Monitoring
Weeks to months (depending on specific air monitoring concerns)

Sensors
Months or longer
Proposed Air Monitoring Approach (Prioritization)

Priority Areas for Monitoring
- Highest
- 2nd Highest
- 3rd Highest
- CSC Air Quality Concern
- Community Boundary

3rd Highest
- Truck traffic
- CSC air quality concerns (6)

2nd Highest
- Refineries (1)
- Port
- Truck traffic
- CSC air quality concerns (18)

Highest
- Refineries (4)
- Truck traffic
- CSC air quality concerns (35)
Air Monitoring: Summary

- Community air monitoring plans and objectives are being developed based on community input, current knowledge of air pollution sources, and CERP measures.
- Appropriate monitoring technologies and strategies will be selected based on the monitoring objectives.
- Plans will be revised based on:
  - New information from large area surveys
  - Lessons learned from monitoring activities
  - Community feedback
  - Time needed to satisfy air monitoring objectives
Discussion Activity

• **Purpose:** So you can ask questions and provide input on these ideas for actions in the Plans

• **Format:**
  • Each group will discuss each of the 3 Air Quality Concern categories for 20 minutes.
  • Subject leads will be at each CSC table, and in the Public group. Subject leads will rotate for the 3 CSC tables.
  • Facilitator and Note Taker in each group.
  • Report Back and Q&A at the end of activity.
Activity Discussion Questions

1. Which of the proposed actions in this air quality concern category are the highest priorities?

2. Does the proposed monitoring approach support the other actions (enforcement, emission reductions)?
   - This is your opportunity to provide input to staff who will draft the air monitoring plan

3. What additional ideas do you have to address this air quality concern?

4. For Neighborhood Truck Traffic: What are the highest priority locations to address truck traffic or truck idling?
Future meeting dates and locations:
• CSC Meeting #5: April 11 (6 p.m.-8 p.m.) at Villages at Cabrillo

Future meeting potential topics:
• Discuss remaining Initial Ideas for Actions to address these priority Air Quality Concerns:
  • Oil Drilling/Production
  • Rail
  • Schools, etc.
• How to develop targets/goals
• Provide Feedback on draft Air Monitoring Plan
Next steps and important reminders

- Please **send us your biographies** as soon as possible
- Please **Sign the charter**

- Assembly Natural Resources Committee hearing on AB 617 on March 18 (info in March 8th email)

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**Technical Advisory Group (TAG):**

<table>
<thead>
<tr>
<th>Primary Member</th>
<th>Alternate Member</th>
</tr>
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<tbody>
<tr>
<td>Jesse Marquez (Coalition for a Safe Environment)</td>
<td>Flavio Mercado (Active Resident – Wilmington)</td>
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<tr>
<td>Jill Johnston (USC)</td>
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<tr>
<td>Uduak-Joe Ntuk (City of Los Angeles)</td>
<td>Tim DeMoss (Port of Los Angeles)</td>
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Next TAG Meeting: Late Spring 2019
Thank you for the hard work!

More information on AB 617: www.aqmd.gov/AB617

Email: AB617@aqmd.gov

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