CERP IMPLEMENTATION

UPDATE – 1ST QUARTER 2020

East Los Angeles, Boyle Heights, West Commerce
January 30, 2020

NISH KRISHNAMURTHY, PH.D.
AIR QUALITY SPECIALIST
Partnerships are key for a successful CERP implementation

CSC involvement and input is critical

Thank you for your continued commitment!
EXAMPLES OF CSC INVOLVEMENT

- Participate in CARB and South Coast AQMD rule development process
- Distribute information on reporting idling trucks and odors
- Prioritize which schools receive air filtration systems
2020 CSC UPDATES

January
- Railyards
- Rendering
- School

May
- Truck Traffic
- Metal Processing
- Facilities
- Rendering
- Auto Body Shops

August
- Railyards
- School
- General Industrial
- Auto Body Shops

November
- Truck Traffic
- General Industrial
- Metal Processing
- Facilities
- Schools
AIR QUALITY PRIORITY: RAILYARDS
SARAH REES, PH.D.
ASSISTANT DEPUTY EXECUTIVE OFFICER
Proposed Indirect Source Rule (ISR) for Locomotives

- CARB & South Coast AQMD jointly held community workshops to discuss concepts to reduce emissions from locomotives and railyards (Nov. & Dec. 2019)
  - Video from San Bernardino meeting available: https://youtu.be/uWrCDZEFvIi

Different Authorities:

**U.S. EPA**
- Can regulate locomotive engine emission standards

**CARB**
- Can regulate locomotive activities within California (engine maintenance, fuel requirements, idling, etc)
- Primary mobile source authority

**South Coast AQMD**
- Primarily Stationary and Indirect Source Authority (facilities that attract mobile sources)

AQ Priority: Railyards
PROPOSED NEW STRATEGIES

CARB Concepts

1. Establish a Locomotive Emissions Reduction Spending Account
   - Funding provided by railroads

2. In-Use Locomotive Remanufacture Limit
   - Would allow only one remanufacture using older engine technologies

3. Adopt U.S. EPA 30 Minute Idling Limit
   - U.S. EPA rule becomes enforceable by state (and potentially air districts)

4. Genset Repurposing
   - Replace older switchers at smaller railroads with cleaner, used switchers from BNSF/UP

South Coast AQMD Concepts

1. Indirect Source Rule (ISR) to Reduce Exposures from Locomotive Maintenance and Service Emissions

2. ISR to Require Facility-Specific Engineering Plans for Zero Emissions Operations

3. New Incentive Program Focused on Cleanest Locomotive Use Rather than Locomotive Replacement

4. Evaluate New Monitoring Approaches for In-Use Locomotives

AQ Priority: Railyards
NEXT STEPS

- Hold second joint workshop in South Coast AQMD’s jurisdiction
- Continue partnership with CARB as they develop their concepts
- CARB will hold additional workshops statewide

Contacts:
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www.arb.ca.gov/rail_concepts

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AIR QUALITY PRIORITY: RENDERING FACILITIES
Rendering is a process that converts waste animal tissue into grease, soap and other materials.

The rendering process can cause odors.

Strong odors can cause coughing, sore throat, nausea, etc.

South Coast AQMD Rule 415 was adopted in November 2017 to reduce odors from rendering facilities.
KEY ELEMENTS OF RULE 415

Best Management Practices
- Cover trucks
- Limit holding time for materials
- Wash down requirements
- Repair pavement

Permanent Enclosure or Closed System for Operations
- Applies to receiving area, processing equipment, and wastewater
- 2.5 to 3.5 years to design, permit and construct

Signage
- Contact 1-800-CUT-SMOG and facility
- Inform community in English and Spanish

Additional Requirements
- Triggered if odor issues continue
- Facility required to do a specific cause analysis for odor events
▪ Staff surveyed air pollution near rendering facilities
▪ Methyl mercaptan causes a foul odor associated with rendering facilities
▪ Humans can detect this odor at low levels (2 parts per billion)
▪ Levels by the facility were close to the threshold
▪ Levels near residents were lower
CERP IMPLEMENTATION EFFORTS

2019 Compliance Update:

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Notice of Violation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker Commodities Inc.</td>
<td>4</td>
</tr>
<tr>
<td>D&amp;D Disposal Inc., West Coast Rendering Co.*</td>
<td>4</td>
</tr>
<tr>
<td>Darling Ingredients Inc.</td>
<td>1</td>
</tr>
<tr>
<td>Smithfield Packaged Meats Corp.</td>
<td>1</td>
</tr>
</tbody>
</table>

Total: 10

* issued Order of Abatement

AQ Priority: Rendering Facilities

2020 Efforts:

- Continue responding to odor complaints and conduct facility inspections
- Provide updates to the CSC
- Provide public outreach about Rule 415 and how to submit an air quality complaint
DISCUSSION

What type of public outreach would the CSC like to see for air quality complaints and Rule 415?

Examples of public outreach:

- Neighborhood council meetings
- Flyers
- Signage
- Community events
AIR QUALITY PRIORITY: SCHOOLS, CHILDCARE CENTERS, LIBRARIES, AND PUBLIC HOUSING PROJECTS
Reduce Exposure to Harmful Air Pollutants at Schools (Chapter 5g, Action 2 of the CERP)

- Continue installation of air filtration systems at schools identified by the CSC
- Priority given to schools near truck routes, railyards, and/or major freeways
- Explore opportunities for funding of filtration systems and filter replacements
Establish Criteria

Develop Prioritized List

Distribute Funds for Installation*

*Installation of air filtration systems is dependent on funding criteria, potentially affecting the order of the prioritized list.
To seek community input on school site selection within the CERP boundary

Reduce the time necessary for site selection as funding becomes available

Continue to demonstrate the need for additional funding
Some public school districts use the following criteria or information to prioritize school locations in greatest need of air filtration systems:

**Existing Criteria:**

- **Multiple Air Toxics Exposure Study (MATES) III – 2008**
- **Proximity to Major Stationary Sources of Air Pollution**
- **Proximity to Freeways**
MULTIPLE AIR TOXICS EXPOSURE STUDY (MATES)

For more information on MATES IV visit: www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-iv
PROXIMITY TO SOURCES OF AIR POLLUTION OR FREEWAYS

- Amanecer Primary Center (2018)
- Eastman Avenue Elementary School (2018)
- Ford Boulevard Elementary School (2018)
- Freeway I-710
- Freeway I-5
- Railroad 1
- Railroad 2
- Warehousing

Industrial Land Use by Category

Source: U.S. Department of Transportation, Bureau of Transportation Statistics.
ADDITIONAL PRIORITIZATION CRITERIA

CalEnviroScreen 3.0
CalTrans Traffic Data
School Characteristics
For more information about CalEnviroScreen visit: oehha.ca.gov/calenviroscreen/report/calenviroscreen-30

OEHHA: Office of Environmental Health Hazard Assessment (State agency)
TRAFFIC NEAR SCHOOLS

AQ Priority: Schools
SCHOOL CHARACTERISTICS

Type of school (e.g. preschool, elementary, middle, or high school)

Total students enrolled

Student enrollment in free or reduced-price meal program
## Prioritization for Air Filtration Systems Activity

### AQ Priority: Schools

#### Criteria and Brief Description

<table>
<thead>
<tr>
<th>Criteria and Brief Description</th>
<th>Rank # (1 - 5)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Air Toxics Exposure Study IV (MATES IV)</td>
<td>2</td>
</tr>
<tr>
<td>Focuses on the cancer risk from exposure to air toxics across the South Coast Air Basin.</td>
<td></td>
</tr>
<tr>
<td>CalEnviroScreen 3.0</td>
<td>5</td>
</tr>
<tr>
<td>Identifies California communities by census tract that are disproportionately burdened by, and vulnerable to, multiple sources of pollution.</td>
<td></td>
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<tr>
<td>CalTrans Traffic Data</td>
<td>3</td>
</tr>
<tr>
<td>Traffic data can show where congestion occurs. Congestion can result in idling vehicles and create an increase in emissions around nearby schools.</td>
<td></td>
</tr>
</tbody>
</table>

#### School Characteristics

(Please check the box next to the school characteristic you think should be included)

- [x] Highest priority for preschools, followed by elementary, middle, then high schools
- [ ] Higher priority for schools that have more students
- [ ] Higher priority for schools with higher percent of students enrolled in free or reduced-price meal program

#### Nearby Sources of Air Pollution

Please list which three sources of air pollution that are of most concern when they are near schools. For example, air pollution sources can be railyards, industrial facilities, and freeways.

1. Freeways
2. Railyards
3. Industrial facilities

*There should be no duplicate values in your ranking.*
South Coast AQMD’s AB 617 web page: www.aqmd.gov/AB617

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