

INTERACTIVE POLL

Which of these Items do you have the most experience with?

- A) Rail Yard Operations
- **B)** Ports Operations
- C) Lived Experience Near Ports or Rail Yards
- D) Air Quality
- E) Government and/or the Law
- F) Vehicle Technologies and/or Fueling
- G) Other

Participation Instructions:

Step 1: Go to <u>www.menti.com</u> with your internet enabled smart phone*

Step 2: Use code
(To be determined)

Step 3: Submit Answer



*If you do not have access to an internet enabled smartphone, please inform

South Coast AQMD Staff, and we will submit the answer for you.

GOALS FOR THIS MEETING

- South Coast AQMD staff will share data and issues related to the development of the new regulations on rail yards and ports
- We are here today to gather information from the community to inform the development of the new rail yard and port regulations
- We want to hear your perspectives

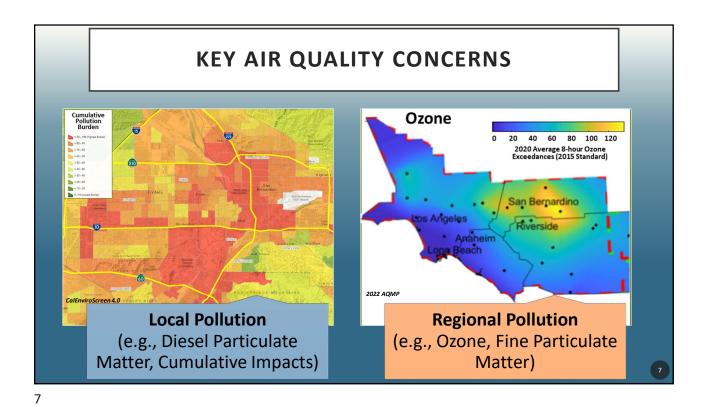
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AGENDA Overview and Key Air Quality Challenges Health Effects Background for the Rail Yard and Port Indirect Source Rules Affected Communities Vehicles and Zero Emission Technology Proposed Rule 2306 – ISR for New Intermodal Rail Yards Focused Discussion on Proposed Rule 2306

OVERVIEW AND KEY AIR QUALITY CHALLENGES

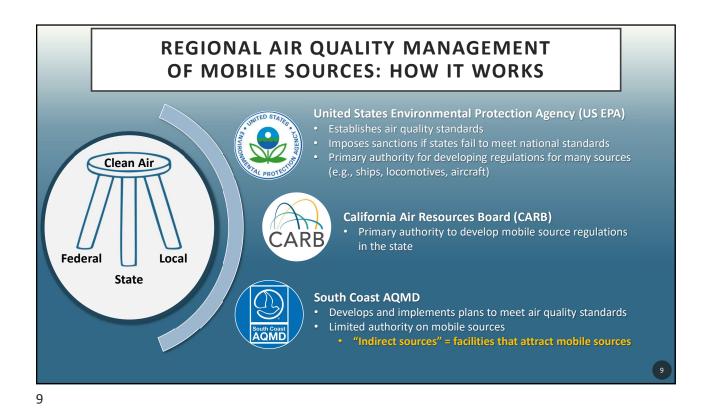
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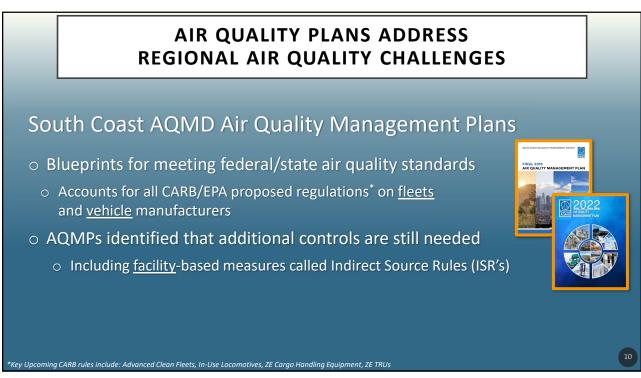




Particulate Matter & Nitrogen Oxides (NOx) & Volatile Organic Compounds (VOCs)

Diesel-powered vehicles used for goods movement are responsible for about half of air pollution in our region





AB 617 COMMUNITY EMISSION REDUCTION PLANS ADDRESS ENVIRONMENTAL JUSTICE CONCERNS

OAB 617 established a process for designated disadvantaged communities throughout California to shape emission reduction actions in their communities

OCOMMUNITY Emission Reduction Plans (CERP's)

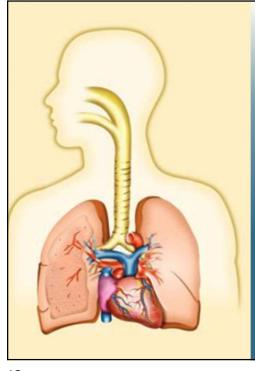
 Port and Railyard ISRs are included in several CERPs, due to concerns over local impacts of diesel particulate matter



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HEALTH EFFECTS

Dr. Nichole Quick, MD, MPH



HEALTH EFFECTS OF OZONE (REGIONAL POLLUTANT)

- ➤ Inflames and damages the airways
- ➤ Coughing, sore throat
- ➤ Makes lungs more susceptible to infection
- Aggravates lung diseases such as asthma, emphysema, and chronic bronchitis
- ➤ Increases the frequency of asthma attacks

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HEALTH EFFECTS OF PM (REGIONAL AND LOCAL POLLUTANT)

- ➤ Premature death in people with heart or lung disease
- > Heart attacks, irregular heartbeat
- ➤ Aggravated asthma, decreased lung function
- ➤ Increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing
- >Ultrafine (<0.1 μm): not regulated but known health effects
- ➤ Diesel particulate matter is a powerful cancer-causing air pollutant

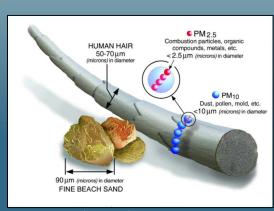


Image: www.epa.gov/pm-pollution/particulate-matter-pm-basics



BACKGROUND FOR THE RAIL YARD AND PORT INDIRECT SOURCE RULES





- o Proposed Rule (PR) 2306 → *new rail yards*
- \circ PR 2306.1 \rightarrow existing rail yards (and expansions of rail yards)
 - o PR 2306.1 rulemaking will begin after Board considers PR 2306



- PR 2304 \rightarrow Ports of Los Angeles/Long Beach
 - PR 2304 will focus on containerized cargo terminals first, with subsequent rulemaking to address non-container terminals





SAN PEDRO BAY PORT (SPBP) COMPLEX

SPBP consists of Ports of LA and LB, collectively the largest container port in the western hemisphere

13 container terminals

Account for about 75% of total port emissions*

33 non-container terminals

Single largest source of air pollution in the region

SPBP

*2021 Ports' emissions inventory reports

AFFECTED COMMUNITIES 21

COMMUNITIES SURROUNDING PROPOSED COLTON INTERMODAL FACILITY

- OSeveral surrounding areas next to the facility score in the top 95th percentile for total pollution burden*
- About 46,000 residents, one hospital, and ten schools are within a one-mile radius



*CalEnviroScreen 4.0

COMMUNITIES SURROUNDING PROPOSED SCIG SITE

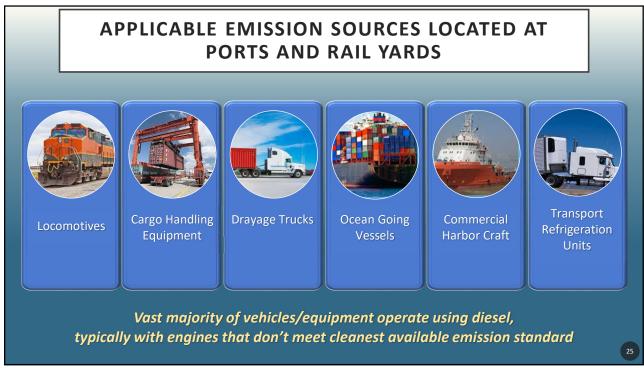
- Several surrounding areas next to the facility score in the top 95th percentile for total pollution burden*
- About 50,000 residents, seven schools and a Veteran Housing Facility are within a one-mile radius



*CalEnviroScreen 4.0

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VEHICLES AND ZERO EMISSION TECHNOLOGY



THREE KEY FACTORS TO DEVELOP AND DEPLOY ZERO EMISSIONS TECHNOLOGY

Vehicles

Fuel

Developing and deploying each of these at scale will take many years to decades

PROPOSED RULE 2306 – ISR FOR NEW INTERMODAL RAIL YARDS

PRELIMINARY RULE CONCEPTS FOR **NEW RAIL YARD ISR Annual Facility-Wide Zero Emission Infrastructure Emissions Limit** Requirement Emissions limit would decline over time • Sufficient installation of zero emission • Ensures benefits from CARB's infrastructure to support maximum statewide commitments in the 2022 projected onsite energy demand AQMP will be achieved in these Facilitates 100% ZE implementation for communities onsite in-yard operations Plan Submittals and Compliance Reporting Rulemaking materials, including draft rule language can be found here: http://www.aqmd.gov/home/rules-compliance/rules/scaqmd-rule-book/proposed-rules/rule-2306

ALTERNATE COMPLIANCE OPTIONS VERY PRELIMINARY - UNDER DEVELOPMENT

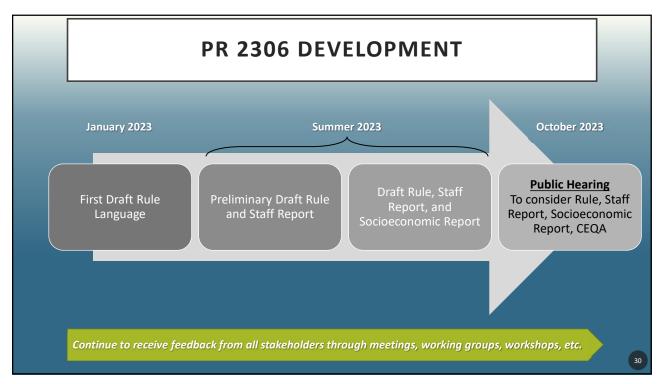
Early and Additional Action Banking (EAAB)

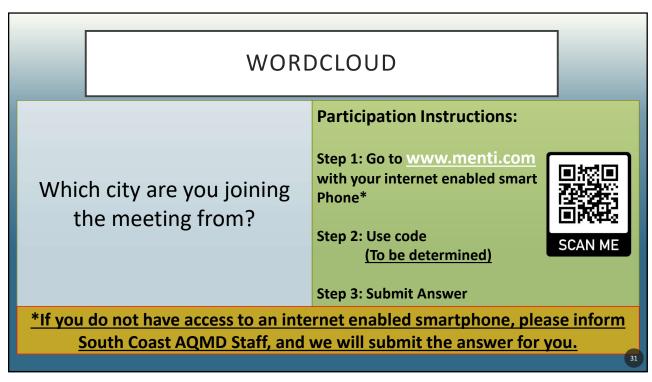
- Additional ZE infrastructure upgrades beyond rule requirements could be used as a flexibility option to partially satisfy emissions limit obligation
 - o Rule would set limits on duration and amount of EAAB
 - o Early flexibility could achieve greater emission reductions later

Mitigation Fee

- Funds would be used on air quality improvement measures for the local community around the new rail yard
 - Process for spending mitigation fund would be developed later and would include community input

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COMMUNITY ISSUES

SOME QUESTIONS TO GET DISCUSSION STARTED:

- A rail yard is located in a specific community and is connected to the larger goods movement network. Are you most concerned about the local rail yard and/or the broader goods movement such as warehouses, ports, network of train tracks and trucking routes, etc.?
- Are there air pollution issues you see in your community that could be potentially addressed by the proposed rule on new rail yards?
- Is there specific air quality information that is important for you to see reported if this rule is adopted?
- What do you see as strengths and weaknesses in the proposed rule concepts?
- What are your thoughts regarding alternative compliance options?
- Other issues related to rail yards that we should consider?

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STAFF CONTACTS

Railyard and Ports Indirect Source Rules (ISR)

PR 2306

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Sign up for the mailing list at: https://www.aqmd.gov/sign-up (select "Proposed Rule 2306" or "Proposed Rule 2304")

Email us at: PortsISR@aqmd.gov or RailYardISR@aqmd.gov

For more information, visit: www.aqmd.gov/fbmsm

(click into "Commercial Marine Ports" or "Rail Yard and Intermodal Facilities")