AGENDA NO. 30

# Update on Facility Based Mobile Source Measures

#### Governing Board Meeting

March 1, 2019



## Summary of May 2018 Board Direction

Sector	Direction	
Airports	Pursue MOUs to implement airport clean air action plans	
Ports	Pursue MOUs to implement specific CAAP measures; pursue introduction of cleaner vessels	
New/Redevelopment	Continue to work with stakeholders to develop rule concepts and preliminary costs/benefits	
Warehouses	Develop rule concept; conduct economic impacts study to inform rule concept	
Rail yards	Pursue rulemaking; explore potential for new agreements/MOUs beyond the 1998 and 2005 agreements	

## Airports

LAX
SNA
BUR
ONT

LGB

- Airports are developing respective Air Quality Improvement Plans (AQIPs) and committed to MOU approach
- Staff working with airport consultants to develop emissions inventory methodology
- Working Group meetings planned over the next 7-8 months
- AQIP and MOU adoption by each airport expected by Sep 2019
- Board MOU adoption expected in Nov 2019

### Ports

- Ongoing discussions with the Ports on MOU process and framework including meetings between Executive Officers
  - High level agreement on MOU development
  - Still need to develop and agree to specific commitments
  - Established Technical Working Group (TWG) to develop methodologies to quantify emission reductions from CAAP measures
    - Membership from Ports, CARB, EPA, Pacific Merchant Shipping Association, California Trucking Association, and Coalition for Clean Air
- Working group meetings planned next 7-8 months
- MOU adoption by POLA/POLB expected by Sep 2019
- Board adoption expected Nov 2019

### Pacific Rim Initiative for Maritime Emission Reductions (PRIMER)

Tianjin

Qingdao

Shanghai

Sample route – CMA CGM between China and U.S. Pacific Coast

Partner with Asian ports on shared routes to incentivize cleaner vessels on these routes

Leveraging incentives at multiple ports can change shipping behavior and encourage cleaner vessel calls Long Beach

Oakland

### **PRIMER Status**



#### **Engagement with China**

- August 2018: met with officials from the central government in Beijing and local officials in Hong Kong and Shanghai
- January 2019: met with officials in Shenzhen and presented at International MoVE 2019 Workshop in Chengdu, China



#### Technical analysis to support the concept

- Data analysis to understand shipping patterns
- Hired consultant for cost-optimization work

#### Held Technology Forum for OGV retrofits

- Convened engine manufacturers, shipping lines, ports and other stakeholders to discuss retrofit technology
- Secured commitment for a technology demonstration project

### New Development and Redevelopment

### > The Board expressed key concerns about:

- Types of projects affected (e.g. affordable housing projects)
- Effects on real-estate prices
- Job and economic impacts
- $\succ$  Based on Board direction, staff:
  - Held additional Working Group meetings
  - Surveyed the Working Group on investigative approaches to identify emission reduction costs
  - Is pursuing an RFP to study the feasibility of emission reductions from construction
    - Planning on releasing draft RFP to the Working Group and holding a Working Group meeting to discuss emission reduction approaches 2<sup>nd</sup> quarter 2019

### New Development and Redevelopment

- Promising emission reduction strategies are being pursued by projects to mitigate CEQA-related air quality impacts
- As an early action, staff is considering voluntary CEQA mitigation programs, for example

### **CEQA Air Quality Mitigation Fund**

Project proponents could voluntarily contribute to a SCAQMD fund that would be used to implement emission reduction projects to reduce a project's regional and/or local impacts.

### **Update SCAQMD CEQA Mitigation Guidelines**

Encourage net-zero developments, clean construction policies, installation of charging/fueling infrastructure, etc.

### Warehouse ISR

- Staff exploring potential Indirect Source Rule options
  - Structure of proposed rule
  - Stringency of proposed rule

Board-directed economic impact study recently initiated

Research into potential air quality benefits underway



### Warehouse ISR – Key Constraints

"We want a strong ISR, with zero emissions."



### Truck Emissions Must Be Reduced

"Warehouses don't control trucks."



Air District Does Not Have Authority To Directly Regulate Private Trucks

### Warehouse Business Models

- Warehouse operators have variable control over truck fleets coming to their facility
  - Warehouse operator-owned fleet complete control
  - Warehouse operator-contracted fleets some control
  - Fleets contracted by cargo owner (not warehouse operator) minimal control
    - Warehouses do have contractual relationship with cargo owners
- Relationship between warehouse owners, operators, and cargo owners is variable
  - Cargo owners often do not own or operate warehouses holding their goods
  - Warehouse operators often do not own warehouses

## ISR Considerations Regarding Warehouse Business Models

- Regulatory options that require warehouse operators to control trucks at their facility may not be implementable, or at the very least, cause significant disruption to industry business model
- Remaining ISR options that don't necessarily require warehouse operators to control trucks:
  - SOON Program Approach
  - Local Government Measures
  - Onsite BMPs
  - Fleet Crediting Program
  - Mitigation Fee

Likely highest potential for achieving emission reductions from trucks given the diversity of business models

## Recent Key Governmental Activities Affecting Heavy Duty Vehicles

Agency	Regulatory Action	Current Proposed Concept/Implemented Requirement	Turns Over Existing Fleet?
EPA	Cleaner Truck Initiative	Rulemaking by 2020?, Implementation by 2024?	No
California	Low NOx Engines	<ul> <li>New engines XX% cleaner than 2010 standard</li> <li>Rule Implementation by 2023</li> </ul>	No
	Advanced Clean Trucks	<ul> <li>ZEV Mandate for Heavy Duty Trucks</li> <li>15% sales by 2030</li> </ul>	No
	Innovative Clean Transit	All new bus purchases must be ZE, phased in by 2040	No
	ZE Drayage Trucks	<ul> <li>Phase-in transition to ZE drayage at ports</li> <li>Rule Implementation beginning 2026-2028</li> </ul>	Yes
	Financial Incentives	>\$100's of millions allocated statewide for early turnover in recent years	Yes
Ports of LA/LB	Clean Truck Program	New rate structure for non-NZE/ZE drayage trucks in 2020, non-ZE in 2035	Yes
Global Examples	Shenzhen, China	Financial incentives provided to convert all 16,000 transit buses to electric	Yes
	London, Milan, Paris	City cordon pricing tied to emissions levels	Yes

ISR IS NOT THE ONLY POTENTIAL DRIVER FOR EXISTING FLEET TURNOVER, BUT IT IS ONE OF THE ONLY PROPOSED NEAR TERM MEASURES THAT COULD AFFECT EXISTING FLEETS

### **Rail Yards**

- Staff continuing to research potential indirect source rule and voluntary approaches
- Staff in discussion with both Class 1 railroads to update rail yard-specific emissions inventories
  - Last detailed rail yard inventories prepared using data from 2005
  - Detailed inventories helpful to understand potential opportunities to reduce emissions
- Railroads facilitated staff site visits to four rail yards to understand unique operations at each facility

### Intersection Between AB 617 & FBMSM

Indirect sources have been identified as a concern in AB 617 meetings



Warehouses, rail yards, and ports all located in 'Year 1' AB 617 Communities







## Summary





Developing Air Quality Improvement Plans MOU adoption targeted for November 2019



Agreement regarding MOU framework; still need specific commitments Established TWG to help quantify expected CAAP emission reductions; MOU adoption targeted for November 2019

Explore collaboration for cleaner ships in the Pacific Rim



Pursuing RFP to feasibility of emission reduction measure from construction associated with new/redevelopment

Exploring voluntary CEQA air quality mitigation fund concept and updates to CEQA mitigation guidelines



Developed menu of options for ISR; economic impact study underway Better understanding of warehouse business models and how this could impact various regulatory options

Awareness of other activities also impacting trucks



Staff in discussions with railroads to update emission inventories Railroads facilitated staff site visits to better understand facility operations