

Agenda

- Background
 Goods Movement
- Boots Moveme
 Port Information
- ARB's "Port Truck Report"
- San Pedro CAAP/Truck Replacement Programs
- On-Road Vehicles Control Measure
- Comments ARB Draft Report
- Regulatory Timeline
- Contact Information
- Open Discussion



Background

- ARB Emission Reduction Plan for Ports and Goods Movement in California
- Emission Sources:
 - Ships
 - Locomotives
 - Harbor Craft
 - Cargo Handling Equipment
 - Heavy Duty Diesel Trucks



ADSoftware

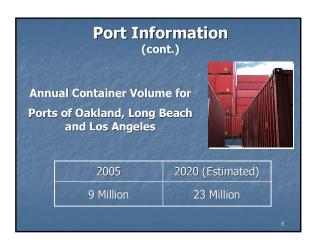
Port Information

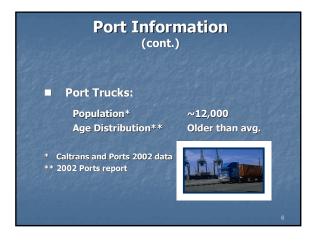
Health Risk

• Greater than 10 in a Million

Emission Inventory

- Statewide Emissions Goods Movement :
 - Diesel PM ~ 50 tons per day (TPD)
 - NOx \sim 1,100 TPD
- Port Truck Emissions:
 - Diesel PM \sim 1.6 TPD
 - NOx ~ 19 TPD







ARB's Port Truck Report

Goals/Objectives – 3 Initial Strategies

Strategy 1:

- Replace pre-1994 trucks Install DPFs
- · Low Cost Low NOx reductions
- Evaluation of Port Trucks and Possible Mitigation Strategies

Stationary Scarra Division Project Assessment Examp April 2006

- Strategy 2: Replace pre-2003 trucks
 - Install DPFs
 - High Cost
 - High NOx reductions

ARB's Port Truck Report (cont.)

- Strategy # 3:
 - · Replace the oldest trucks and install controls on the entire fleet.
 - · Establish emission criteria for trucks entering port service.
 - Beginning 2017 and by 2019, trucks will further reduce emissions by meeting 2010 engine standards
 - · Evaluate potential incentives

ARB's Port Truck Report (cont.)

- Retrofit Technologies • Verification of Diesel Emission Control Strategies
 - Hardware Diesel Emission Control Strategies:

Diesel Particulate Filters: Passive

Active



Fuel Borne Catalyst **Flow through Filters**



San Pedro CAAP & Truck Replacement Programs

- San Pedro Clean Air Action Plan
- Gateway Cites
 ~ 400 Trucks Replaced
- Port of Oakland
 ~ 15 Trucks Replaced



On-Road Vehicles Control Measure

- Will effect all heavy duty diesel vehicles with GVWR greater than 14,000 lbs.
- Board Consideration Mid 2007
- Website: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm



Comments – ARB Draft Report

- Truck Owners Economics
- Funding
- Accurate Data

 Additional Research
- Why Two Plans
- Implementation
- Enforcement



Comments – ARB Draft Report (cont.)

- Fleet Fluidity
- Outreach
- Replacement Truck Availability
- Fleet/Container Growth/Infrastructure
- Legal Authority

Regulatory Timelines:

- Starting 2006: Outreach with stakeholdersFall 2007: Board consideration

Future Public Consultation Meeting: - September 2006, No. Calif.

Contact Information:

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Website: http://www.arb.ca.gov/msprog/onroad/porttruck/porttruck.htm

