

California Air Resources Board



**Reducing Emissions from
On-Road Heavy-Duty Diesel Trucks Dedicated to
Goods Movement at California Ports**

Public Workgroup Meeting
November 13, 2006

Air Resources Board 
California Environmental Protection Agency

Goods Movement Plan

□ The Need

- Community health and environmental justice
- ARB's Diesel Risk Reduction Plan
- Air quality plans (SIPs)

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Goods Movement Plan Cont.

- Reduce Emissions From:
 - Heavy duty diesel trucks
 - Locomotives
 - Ships
 - Harbor craft
 - Cargo handling equipment

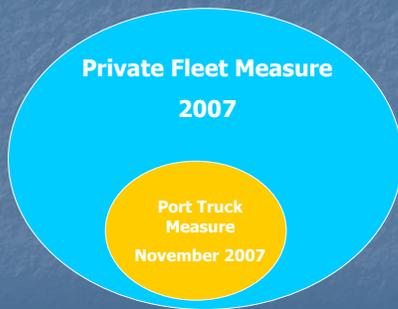
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Starting Point Initial Port Truck Strategy

- 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.

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ARB's Two Truck Measures



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Regulatory Timeline

- Research – Ongoing
- Outreach with Stakeholders – Ongoing
- Public Meetings – Started August 2006
- Regulation Development Workgroups – Ongoing
- Staff Report Including Draft Regulation – September 2007
- Board Consideration – November 2007

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Workgroup Goals

- **Goals**
 - Define 'Port'
 - Define 'Port Truck'
 - Identify action items
- **All Input Invited**
- **Set Future Meeting**

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Questions / Comments



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'Port' and 'Port Trucks' Definition



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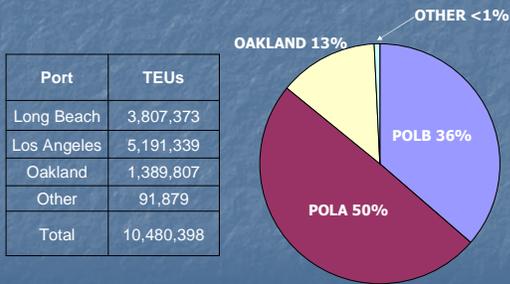
Criteria

- **'Port'**
 - TEU volume

- **'Port Truck'**
 - Number of trips to the port
 - Age distribution of the trucks

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2005 TEU VOLUME CALIFORNIA PORTS



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Port Truck Population

- **ARB's Port Truck Report ~ 12,000 trucks**
 - Caltrans data
 - Ports of Los Angeles, Long Beach and Oakland

- **2005 Ports of Los Angeles and Long Beach Data**
 - 7 terminals,
 - ~ 740,000 data points

- **2006 Port of Oakland Data**
 - ~ 3,000 data points

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Port Truck Population Los Angeles / Long Beach

- ARB Preliminary Analyses of Ports of Los Angeles and Long Beach Data
 - 15,700 unique license plates
 - 37 day period is sufficient to represent entire year
 - Most trucks visiting one terminal also visit other terminals

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Port Truck Population Los Angeles / Long Beach

- Number of trucks servicing ports
 - ~ 6,000 - 7,000 trucks visit ports at least once a day
 - ARB estimates ~ 1,000 trucks visit ports three times per week
 - POLB/POLA estimates ~ 9,000 trucks visit ports three times per week

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Port Truck Population Oakland

- ARB preliminary analyses of Port of Oakland Data
- Two categories of port truck drivers:
 - Multiple short trips (up to 8 per day)
 - 2-3 longer trips per day

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Conclusion / Discussion Cont.

- 'PORT TRUCKS' CONT.
 - ✓ Estimated number of trucks affected by regulation ~9,000
 - ~ 3,000 trucks replaced and retrofitted
 - ~ 6,000 trucks retrofitted
 - ✓ Age distribution differs between ports
 - Oakland trucks slightly newer

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Questions / Comments 'Port' and 'Port Trucks' Definition



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Action Items Future Meetings/Contact Info

- Action Items
- Future Public Workgroup Meeting:
 - December 2006, Southern Calif.
- Contact Information:
 - Michael Miguel, Manager
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Website:
<http://www.arb.ca.gov/msprog/onroad/porttruck/porttruck.htm>

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