

Public Workshop to Discuss Reducing Emissions from Diesel-Fueled Cargo Handling Equipment at Intermodal Facilities

**Port Equipment-Yard Hostler
Emission Reduction
Demonstration**

November 10, 2004
Sacramento, California



California Environmental Protection Agency



Air Resources Board

Demo Program Objectives

- ◆ Combined POLA and ARB Project
- ◆ Determine Duty Cycle for Testing
- ◆ Evaluate Engine Replacement Options
- ◆ Demonstrate Aftertreatment Controls
- ◆ Certification Type and In-Use Testing

Duty Cycle

- ◆ Review Existing Duty Cycle Information
- ◆ Perform Additional Data Logging
- ◆ Determine Duty Cycle for Testing
- ◆ Perform Emission Testing
 - Chassis Cert. Style Testing (e.g. C1 steady-state)
 - In-Use Driving Cycle (e.g. transient)

Engine Replacement Options

- ◆ Baseline Equipment
(Typical In-Use)
- ◆ New Off-Road Engine
- ◆ New On-Road Engine

Aftertreatment Controls

Engine Type	Equipment	Baseline Configuration	Control Options
Baseline equipment (typical in-use)	3 yard hostlers (Baseline)	Uncontrolled	<ul style="list-style-type: none">• DOC• DOC/emulsified Fuel
New Off-road Engine	3 yard hostlers (Baseline)	Uncontrolled	
New On-road Engine	3 yard hostlers (Baseline)	Uncontrolled	

- ◆ Additional aftertreatments may be included in test program

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