Implementation of the Cargo Handling Equipment Regulation

Faster Freight - Cleaner Air Conference
February 26, 2007

California Environmental Protection Agency
Air Resources Board

Overview

♦ Background
♦ Requirements of the Regulation
♦ Future Activities
♦ Contacts
Background

Need for Reductions

- Dramatic increases in trade
- No other regulations currently addressing in-use off-road diesel engines
- Ports and intermodal rail yards pose specific public health concern for nearby residents
- Diesel Risk Reduction Plan, Governor's Action Plan, and State Implementation Plan goals
Expected Cargo Handling Equipment  
Diesel PM and NOx Emission Reductions

Estimated Reductions by 2020:  
Diesel PM = 81%  
NOx = 77%

Regulation Status

♦ Adopted by the Air Resources Board on December 8, 2005
♦ Approved by the Office of Administrative Law on December 1, 2006
♦ Became effective on December 31, 2006
♦ Applies to:  
  – in-use equipment  
  – newly purchased, leased, or rented equipment
♦ Implementation began January 2007
Newly Purchased, Leased, or Rented Equipment:

**Performance Standards**

- **Yard trucks**
  - 2007 or later on-road or, when available, final Tier 4 off-road engine

- **Non-yard truck equipment**
  - 2007 or later on-road, Tier 4 off-road, or highest level off-road engine with highest level verified controls
In-Use Yard Trucks

Performance Standards
♦ 2007 or later on-road engine standards, final Tier 4 off-road engine standards, or equivalent

Compliance Schedule
♦ Phased in beginning December 31, 2007 (oldest vehicles comply first)

In-Use Non-Yard Trucks

Performance Standards
♦ 2007 or later certified on-road engines; or
♦ certified on-road engines (pre-2007) or off-road engines
  – requires highest level verified controls (may require 2nd step to replace to Tier 4 off-road or apply Level 3 controls)

Compliance Schedule
♦ Phased in beginning December 31, 2007
Compliance Extensions for Non-Yard Truck Equipment

♦ No verified controls available
♦ Use of experimental diesel PM emission control strategies
♦ Alternative Compliance Plan

Recordkeeping and Reporting

♦ Recordkeeping began December 31, 2006
  – records must be kept onsite
  – equipment labeling or approved alternative method
♦ Compliance Plans and first Annual Report were due January 31, 2007
♦ Reporting forms available online at http://www.arb.ca.gov/cargo
Future Activities

- Continue implementation
- Demonstration program for RTG cranes, top picks, and side picks
- Technology Working Group
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