California Air Resources Board
Strategies to Reduce Diesel Emissions that will Benefit the I-710 Corridor

March 19, 2004

California Environmental Protection Agency

Air Resources Board
Improving Air Quality is a Cooperative Effort

- State
- Federal
- International
- Local

Cleaner Air
Existing Programs will Result in Significant emission Reductions

♦ New Engine Standards
  – Implementation will result in new engines over 90% cleaner than uncontrolled engines

♦ In-Use Strategies
  – Carl Moyer Incentive Program
  – Support Local Programs I.e. Gateway Cities
  – Heavy-Duty Vehicle Inspection Program
  – Periodic Smoke Inspection Program

♦ Emission benefits will directly affect those communities located near Ports
New Measures for On-Road Trucks

- Pursue approaches to clean up new trucks
  - HD Engine Diagnostics
  - Truck Idling Restrictions
  - Mfr. Required in-use testing
- Pursue approaches to clean up the existing on-road vehicles
  - Diesel In-Use Fleet Rules
  - Engine Software Upgrade ("Chip Reflash")
  - Idling Restrictions
  - HD In-Use Compliance Program
  - Vapor Recovery for fuel cargo carriers
  - Truck Refrigeration Units
- Augment truck and bus highway inspection with community-based inspections
New Measures for Off-Road Equipment

♦ Pursue approaches to clean up existing off-road vehicles and equipment
  – Diesel In-Use Fleet Rules: Public and Private fleets (construction equipment, cargo handling equipment etc.)
  – Stationary Engines
  – Portable Equipment
New Measures for Fuels

- Set additive standards for diesel fuel
- Set low-sulfur standards for diesel fuel for trucks/buses, off-road equipment, and stationary engines (ADOPTED)
- Extend applicability of CARB diesel to marine and locomotive
New Measures for Ships/Boats/Ports

♦ Pursue more stringent new engine standards
♦ Reduce emissions from existing harbor craft
♦ Reduce emissions from in-use oceangoing ships
♦ Reduce Port land-side emission sources
Collaboration Necessary to Identify and Adopt Additional Long Term Measures

- ARB to lead multi-agency effort and public process
- Goal to identify and evaluate potential long term measures and adopt where feasible
- 1st Step - SIP Summit January 2004
Progress

♦ Recently Adopted Measures
  – Refuse Haulers
  – Stationary Engines
  – Truck Refrigeration Units
  – Portable Engines
  – Verification Procedure
  – School Bus Idling
  – Low Sulfur Diesel Fuel

♦ Additional Measures for 2004
  – Chip Reflash
  – Idling Limits for New Trucks
  – Engine Diagnostics for New Trucks
  – Idling Reduction for In-Use Trucks
  – Control Measure for Publicly Owned or Operated Fleets
  – Extend applicability of CARB diesel to harbor craft and intrastate locomotives
  – Off-Road Public Fleets