SB 656 Workshop

Measures to Reduce Particulate Matter

May 6, 2004

Sacramento, California

Workshop Outline

- Legislation requirements
- PM standards and attainment status
- Development of lists and their use
  - ARB lists
  - Air district list
- Next steps

SB 656 Requirements

- By January 1, 2005: ARB, in consultation with air districts, must develop and adopt a list of measures for reducing PM
- By July 31, 2005: ARB and air districts must adopt implementation schedules for appropriate measures
- By January 1, 2009: ARB must prepare a report describing actions taken
- January 1, 2011: Legislation sunsets, unless renewed

Scope of PM Problem

- PM includes:
  - PM10 and PM2.5
  - Directly emitted and secondary (precursor species NOx, SOx, ROG, ammonia)
- Most of California is nonattainment for State PM10 standards and all major urban areas exceed the State PM2.5 standard
- Variations in severity and number of exceedances, seasonality, sources

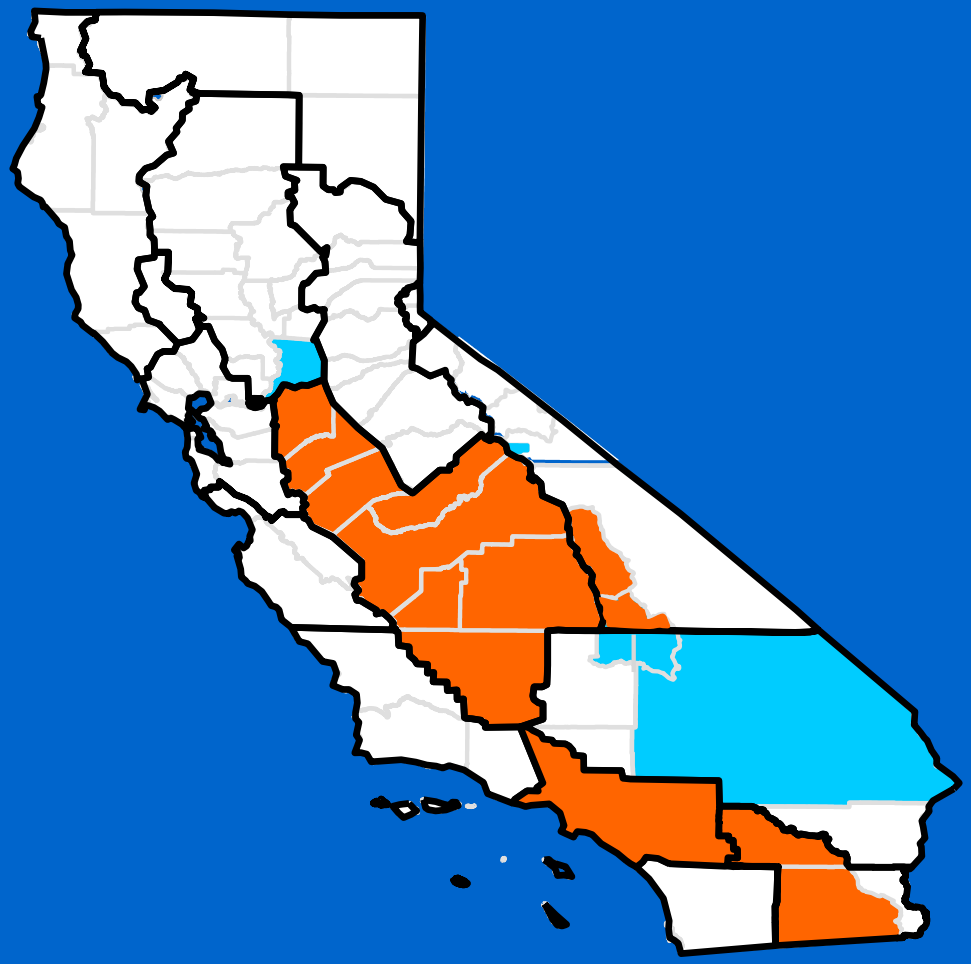
State and Federal Particulate Matter Standards

	California ($\mu g/m^3$)	Federal ($\mu g/m^3$)
PM_{10}		
Annual	20	50
24-hour	50	150
$PM_{2.5}$		
Annual	12	15
24-hour	under review	65

Attainment of California's new standards will annually avoid:

- 2,600 premature deaths
- 7,900 cases of chronic bronchitis in children
- Thousands of cardiovascular and respiratory disease hospitalizations
- 570,000 lost work days

Federal PM10 Designations



Nonattainment

4 of these non-attainment areas now meet federal PM10 standards

- **Sacramento County**
- **Mammoth Lakes**
- **2 Areas in Searles Valley**
- **Portion of San Bernardino County**

Expected Federal PM2.5 Designations

Nonattainment Area	*Design Value (ug/m^3)*	
	24-hour (Std. is 65)	*Annual (Std. is 15.0)*
San Joaquin Valley	90	23.2
South Coast	73	28.9
City of Calexico	50	15.6
San Diego	43	16.4

State PM10 Area Designations

- Nonattainment
- Attainment
- Unclassified

State PM2.5 Area Designations

Nonattainment

Attainment

Unclassified

List Preparation

- Most readily available, feasible, cost-effective measures in place as of January 1, 2004
- ARB and air district measure lists
- Measures for directly emitted PM and precursor species

ARB List

- Two part list:
  - Measures adopted through January 1, 2004
  - Future measures and implementation schedule for Board consideration
    - Diesel Risk Reduction Program
    - State and Federal Strategy
- Focus on mobile sources and fuels, consumer products, diesel risk reduction measures

ARB List Categories

- Diesel-fueled Engines and Vehicles
- Smoke Management Program
- Non-Diesel Mobile Sources
- Non-Diesel Fuels
- Consumer Products
- Vapor Recovery
- Distributed Generation

Air District List

- All measures adopted prior to January 1, 2004 eligible
- Screening based on level of stringency
- Focus on stationary and area sources, incentive programs, and fleet rules (where applicable)

Air District List Categories

- Residential Wood Combustion
- Non-Agricultural Open Burning
- Fugitive Dust
- Stationary and Area Sources
  - **Combustion**
  - **Product Manufacturing**
  - **Coating Operations**
  - **Leaks and Storage**
- Fleet Rules
- Incentive Programs

Use of Air District List

- Select appropriate subset of measures:
  - Based on nature and severity of PM problem
  - Consider cost-effectiveness and feasibility for individual air district
  - Harmonize with ongoing regulatory efforts

Next Steps

- Seeking input on draft lists
- Request comments by May 31, 2004
- Issue staff report and revised lists for Board consideration
- Presentation at July 2004 Board meeting
- Update Statewide PM Characterization

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www.arb.ca.gov/pm/pmmeasures/pmmeasures.htm