

School Bus Idling Implementation Report



Public Meeting
Fresno, California
October 28, 2004

Today's Presentation

- Background Information
- ATCM Requirements
- Implementation & Outreach
- Enforcement & Compliance
- Summary

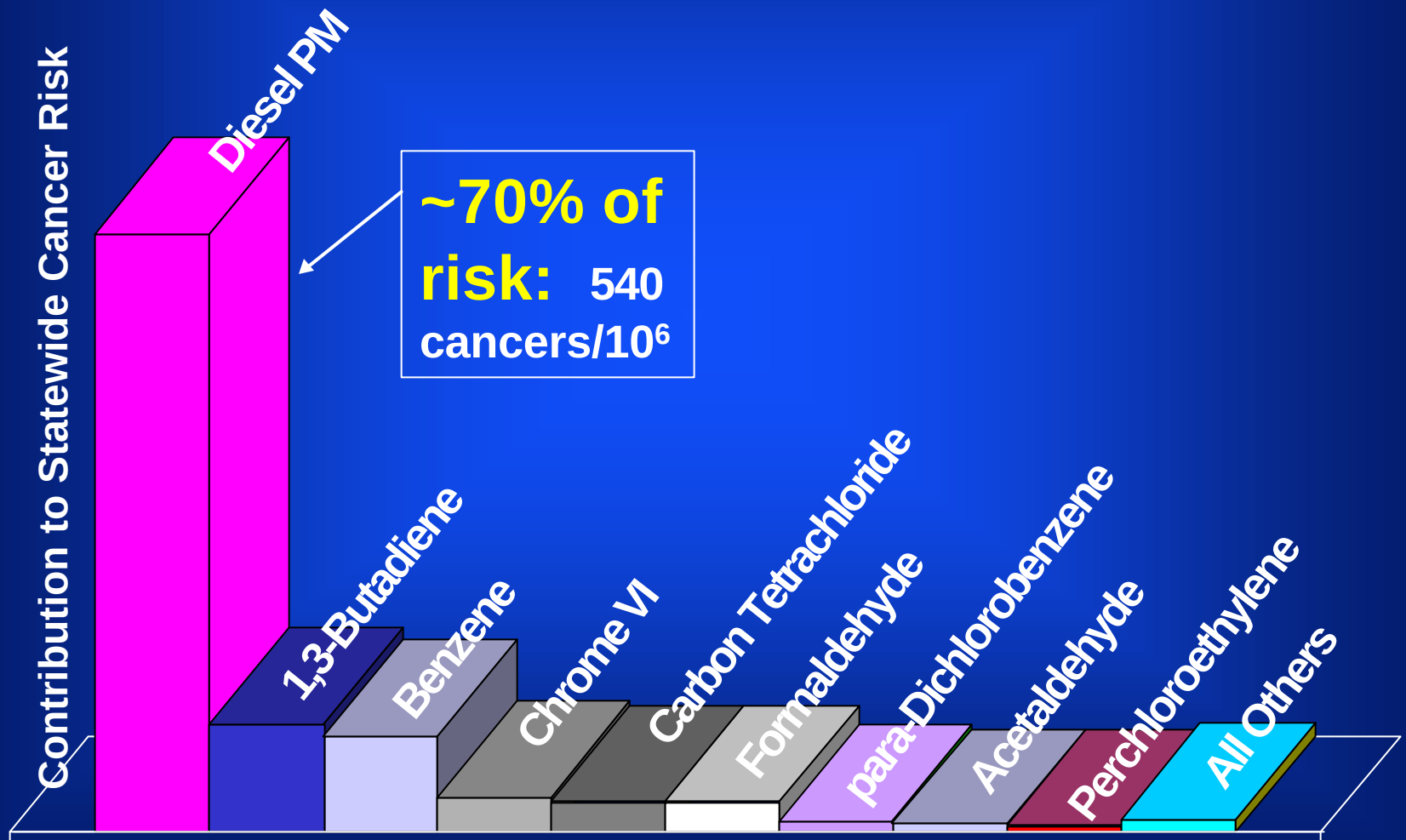
Background

- **Toxic Air Contaminants (TACs) Exposure is a Significant Health Issue in CA**
- **In 1983 Two-Step Process to Address Potential Health Effects from TACs Established in State Law**
 - **First Step: Risk Assessment or Identification Phase**
 - **Second Step: Risk Management or Control Phase**

Background

- In August 1998, ARB Identified Diesel PM as a TAC. This Marked Completion of the Identification Phase
- Exposure to Diesel PM is a Health Hazard, Potential to Cause Cancer and Other Health Problems
- Children Whose Lungs are Still Developing and the Elderly are Particularly Susceptible

Diesels Dominate Cancer Risk from Air Toxics



Overall Health Impacts of Diesels in California

- Annual health impacts
 - 2,900 premature deaths
 - 3,600 hospital admissions
 - 240,000 asthma attacks/respiratory symptoms
 - 600,000 lost days of work

Over 1 Million Diesels in California

	Population 2000
Trucks	700,000
Off-road equipment	500,000
Stationary and portable	65,000

Diesel Risk Reduction Plan

- Established a goal
 - 75% reduction in diesel PM by 2010
 - 85% reduction in diesel PM by 2020
 - Additional NOx reductions
- Four main strategies
 - More stringent new engine standards
 - Assure in-use compliance
 - Cleaner diesel fuel; and alternative fuels
 - Cleanup of existing engines

Adopted Rules

- **Cleaner Diesel Fuel**
- **Verification Procedure**
- **Fleet Rule for Transit Agencies**
- **Solid Waste Collection Vehicle Rule**
- **Stationary Engine ATCM**
- **Truck Refrigeration Unit ATCM**
- **Portable Engine ATCM**
- **Idling ATCMs**
 - **School Bus**
 - **Heavy-Duty Diesel-Fueled Commercial**

Future Rules

- Stationary Ag Engines
- Transit Fleet Vehicles (Non Urban Buses)
- Intrastate-Locomotive and Harbor Craft Fuel
- Cargo Handling Equipment (Port/Rail)
- Public/Private On Road Fleets
- Public/Private Off Road Fleets
- Harbor Craft
- Ocean Vessels

Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools



Approved at
Public Meeting
December 12, 2002



AIR RESOURCES BOARD



California Environmental Protection Agency

Requirements - Applicability

- **School Transportation**
 - **School Buses**
 - **School Pupil Activity Buses**
 - **Youth Buses**
 - **General Public Paratransit Buses**
- **Transit Buses**
- **Heavy-Duty Vehicles (Other than Buses)**

Requirements - School Transportation Vehicles

- At Schools or Within 100 Feet of Schools - Turn engine off upon arrival and restart no more than 30 seconds before departure
- At Locations Beyond 100 Feet of a School - Idling not to exceed more than 5 consecutive minutes at each stop

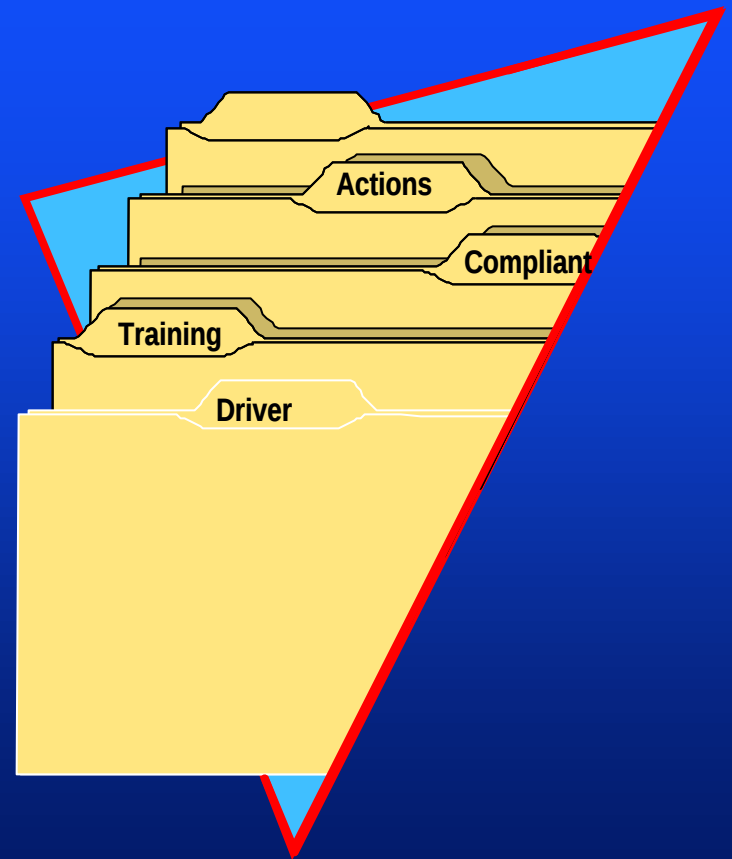
Requirements - Transit Buses, Other Heavy-Duty Vehicles

- At Schools - Turn engine off upon arrival and restart no more than 30 seconds before departure
- Within 100 Feet of Schools - No more than 5 minutes of idling



Requirements - Training and Recordkeeping

- Driver Training
- Complaint and Enforcement Action Tracking
- Recordkeeping

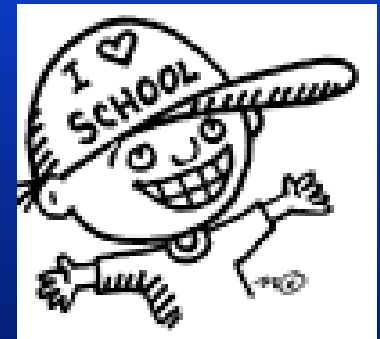


Implementation and Outreach - ARB Activities

- **Maintain and Update Program Website**
- **Expanded ARB's KnowZone Website for Kids**
- **Prepared Articles for Newsletters and Trade Magazines**
 - **California Parent-Teacher Association**
 - **CAPCOA Newsletter**
 - **California Bus Association**

Outreach- ARB Activities

- Created and Distributed Outreach Materials
 - Schools
 - School Districts
 - Air Districts
 - Commercial Motor Vehicles



Training - ARB Activities

- **Assisted Department of Education with Instructor Curriculum for School Bus Drivers**
- **Assisted CHP with Questions for School Bus Driver Exams**
- **Incorporated ATCM Information into the Tampering Detection Course Currently offered to Peace Officers**

Training - ARB Activities (cont'd)

- **30 In-Service Training Sessions for School Bus Drivers**
- **6 Presentations for School Bus Drivers and Others**
- **220 School Districts Visited**
- **183 School Transportation Offices Visited**
- **Statewide School District Survey**

Related Activities

- Air Districts
- Other states - ATCM used as a model



Enforcement and Compliance

- 10 Complaints Received
 - On-line Complaint Form
 - 1-800-END-SMOG
- On-site Inspections
 - More than 300 School Buses Spot Checked
 - No Violations
- Enforcement Activities Ongoing



Findings

- Outreach to School Bus Drivers and Others Effective
- Minimal Complaints Have Been Received
- High Compliance Rate Found During Spot Inspections

Summary

- ✓ **Enforcement Activities Show High Compliance Rate**
- ✓ **Reduced Exposure and Associated Cancer and Other Adverse Health Effects**
- ✓ **Continue to Monitor Compliance and Provide Outreach to Effected Drivers**